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(54) **Title**: HIGH INTENSITY SWEETENERS

(57) **Abstract**: Disclosed herein are compounds having structural Formula (I), or salts thereof. These compounds are useful as sweet tasting agents and/or sweetness enhancers. Also disclosed are compositions comprising the present compounds and methods of increasing the sweet taste of ingestible compositions. Furthermore, methods for preparing the compounds are also disclosed.

HIGH INTENSITY SWEETENERS

BACKGROUND

Field

[0001] The present disclosure relates to the fields of chemistry and foods, beverages, and other ingestible compositions. More specifically, the present disclosure relates to sweet tasting compounds, sweet taste enhancers, and combinations thereof, for ingestible compositions such as foods and beverages, and other ingestible or orally administered medicinal products or compositions.

Background Description

[0002] The taste system provides sensory information about the chemical composition of the external world. Taste transduction is one of the most sophisticated forms of chemical-triggered sensation in animals. Signaling of taste is found throughout the animal kingdom, from simple metazoans to the most complex of vertebrates. Mammals are believed to have five basic taste modalities: sweet, bitter, sour, salty, and umami (the taste of monosodium glutamate, a.k.a. savory taste).

[0003] For centuries, various natural and unnatural compositions and/or compounds have been added to ingestible compositions, including foods and beverages, and/or orally administered medicinal compositions to improve their taste. Although it has long been known that there are only a few basic types of "tastes," the biological and biochemical basis of taste perception was poorly understood, and most taste improving or taste modifying agents have been discovered largely by simple trial and error processes.

[0004] With respect to the sweet taste, diabetes, and cardiovascular disease are health concerns on the rise globally, but are growing at alarming rates in the United States. Sugar and calories are key components that can be limited to render a positive nutritional effect on health. High-intensity sweeteners can provide the sweetness of sugar, with various taste qualities. Because they are many times sweeter than sugar, much less of the sweetener is required to replace the sugar.

[0005] High-intensity sweeteners have a wide range of chemically distinct structures and hence possess varying properties, such as, without limitation, odor, flavor, mouthfeel, and

aftertaste. These properties, particularly flavor and aftertaste, are well known to vary over the time of tasting, such that each temporal profile is sweetener-specific.

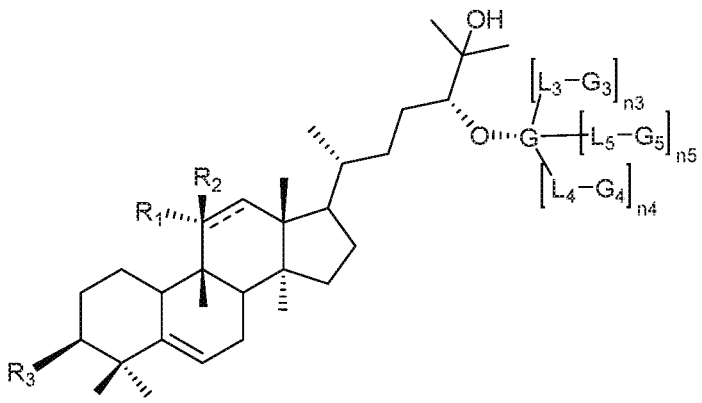
[0006] There has been significant recent progress in identifying useful natural flavoring agents, such as for example sweeteners such as sucrose, fructose, glucose, erythritol, isomalt, lactitol, mannitol, sorbitol, xylitol, certain known natural terpenoids, flavonoids, or protein sweeteners. *See, e.g,* Kinghom, et al., "Noncariogenic Intense Natural Sweeteners," Med. Res. Rev. 18 (5) 347-360 (1998) (discussing discovered natural materials that are much more intensely sweet than common natural sweeteners such as sucrose, fructose, and the like.) Similarly, there has been recent progress in identifying and commercializing new artificial sweeteners, such as aspartame, saccharin, acesulfame-K, cyclamate, sucralose, and the like. *See, e.g.,* Ager, et al., Angew. Chem. Int. Ed. 37, 1802-1817 (1998). The entire disclosure of the references identified above are hereby incorporated herein by reference in their entirety.

[0007] Sweeteners such as saccharin and 6-methyl-1,2,3-oxathiazin-4(3H)-one-2,2-dioxide potassium salt (acesulfame potassium) are commonly characterized as having bitter and/or metallic aftertastes. Products prepared with 2,4-dihydroxybenzoic acid are claimed to display reduced undesirable aftertastes associated with sweeteners, and do so at concentrations below those concentrations at which their own tastes are perceptible. Also, high intensity sweeteners such as sucralose and aspartame are reported to have sweetness delivery problems, i.e., delayed onset and lingering of sweetness. *See* S. G. Wiet, et al., J. Food Sci., 58(3):599-602, 666 (1993).

[0008] There is a need for new sweetening compounds, sweet taste enhancers, and compositions containing such compounds and enhancers, having improved taste and delivery characteristics. In addition there is a need for foods containing new sweetening compounds and/or sweet taste enhancers with such desirable characteristics.

SUMMARY

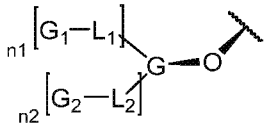
[0009] Some embodiments provide a compound having the structure of formula (I):



(I), or a salt thereof.

[0010] In some embodiments, ------ represents a carbon-carbon single bond or a carbon-carbon double bond.

[0011] In some embodiments, R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group.

[0012] In some embodiments, R_3 is selected from –OH and  .

[0013] In some embodiments, each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3.

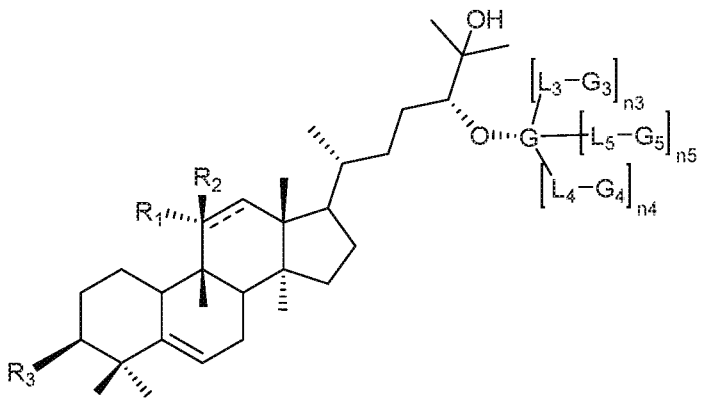
[0014] In some embodiments, each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety.

[0015] In some embodiments, each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond.

[0016] When ------ is a carbon-carbon double bond, R_1 is absent.

[0017] In some embodiments, the compound is in isolated form. In some embodiments, the compound is in purified form. In some embodiments, the compounds is in isolated and purified form.

[0018] Some embodiments provide a composition comprising one or more compounds having the structure of formula (I):



(I), or a salt thereof.

[0019] In some embodiments, the composition comprises greater than 50% by weight of the compound.

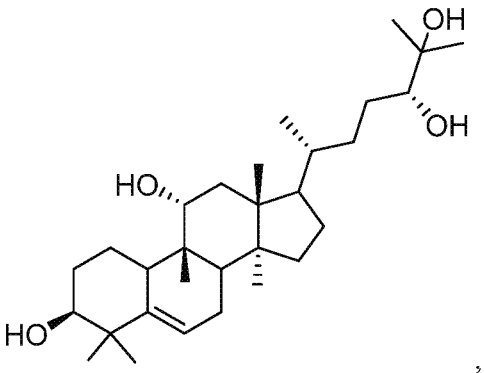
[0020] In some embodiments, the composition comprises less than 1% by weight of Mogroside III_E. In some embodiments, the composition comprises less than 0.5% by weight of Mogroside III_E. In some embodiments, the composition comprises less than 0.1% by weight of Mogroside III_E.

[0021] In some embodiments, the composition comprises less than 0.3% by weight of 11-oxo-Mogroside III_E. In some embodiments, the composition comprises less than 0.3% by weight of 11-oxo-Mogroside III_E. In some embodiments, the composition comprises less than 0.1% by weight of 11-oxo-Mogroside III_E. In some embodiments, the composition comprises less than 0.05% by weight of 11-oxo-Mogroside III_E. In some embodiments, the composition comprises less than 0.01% by weight of 11-oxo-Mogroside III_E.

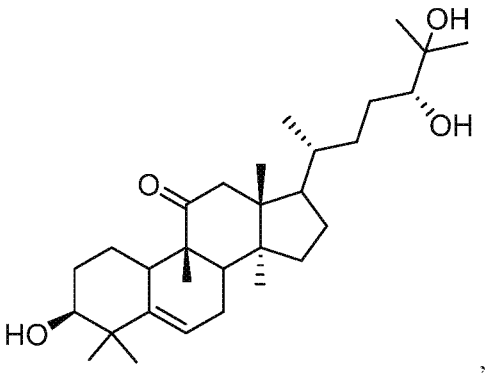
[0022] In some embodiments, the composition comprises less than 1% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III. In some embodiments, the composition comprises less than 0.5% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III. In some embodiments, the composition comprises less than 0.1% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III. In some embodiments, the composition comprises less than 0.1% by weight of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E.

[0023] In some embodiments, the composition comprises less than 1% by weight of 11-oxo-mogrol. In some embodiments, the composition comprises less than 0.5% by weight of 11-oxo-mogrol. In some embodiments, the composition comprises In some embodiments, the composition comprises less than 0.1% by weight of 11-oxo-mogrol.

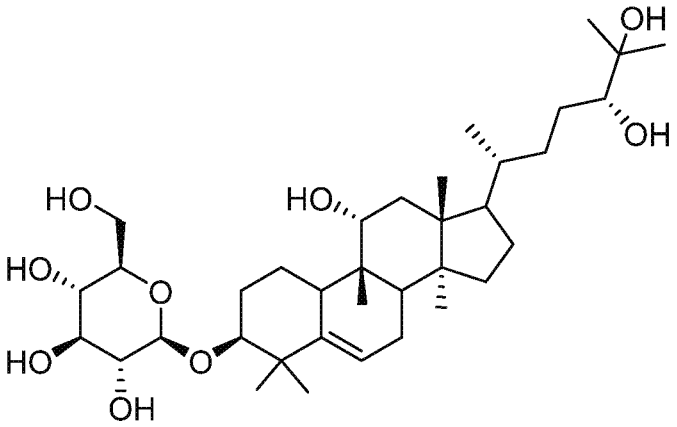
[0024] In some embodiments, the composition comprises one or more additional compounds selected from the group consisting of mogrol, 11-oxo-mogrol,



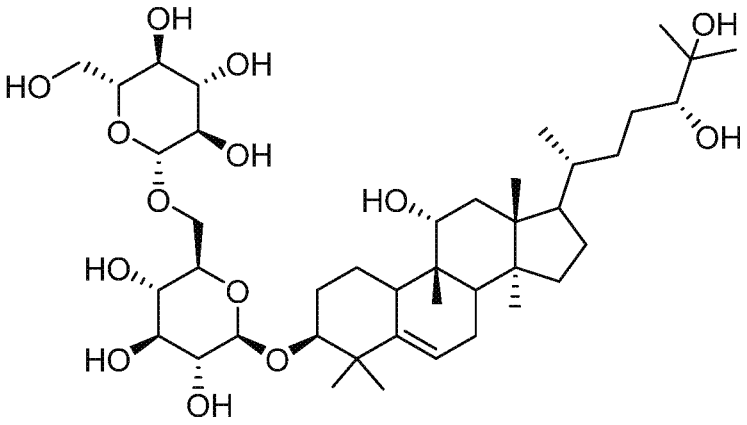
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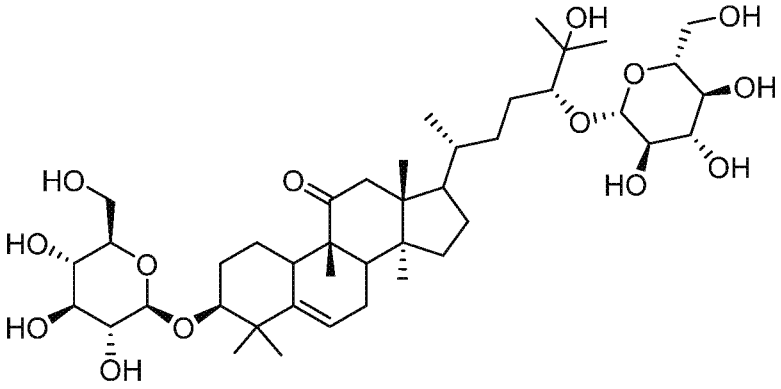
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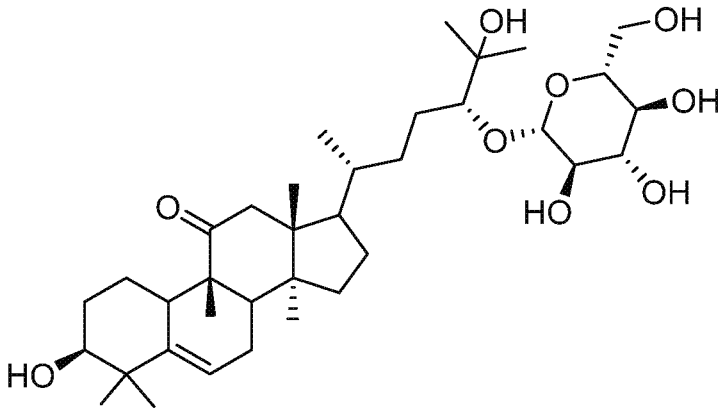
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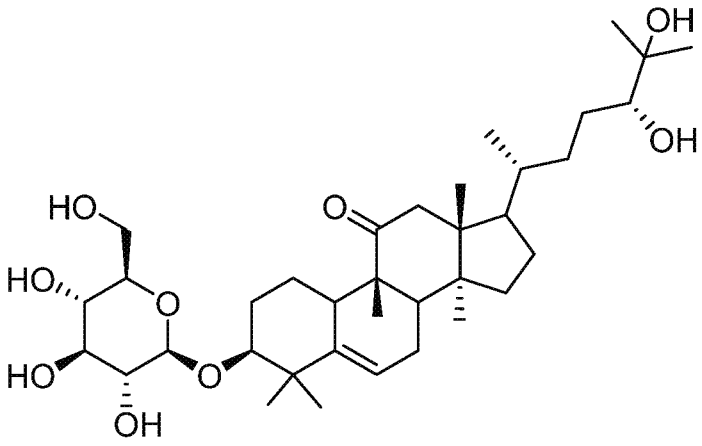
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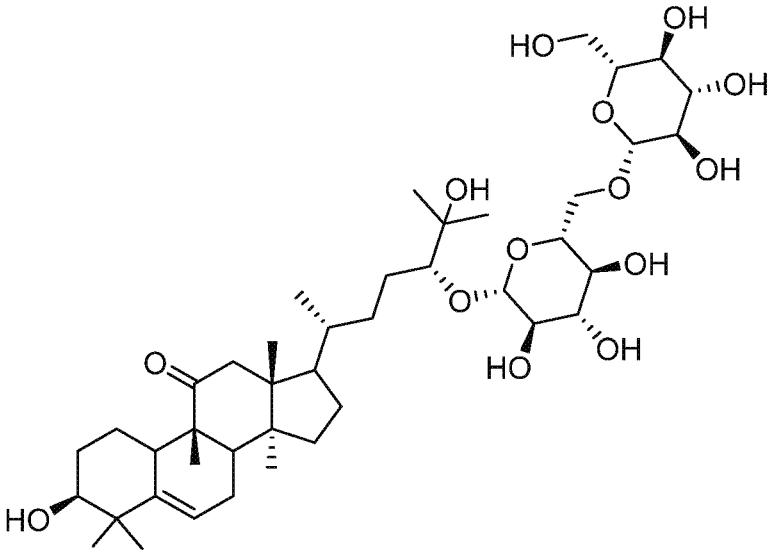
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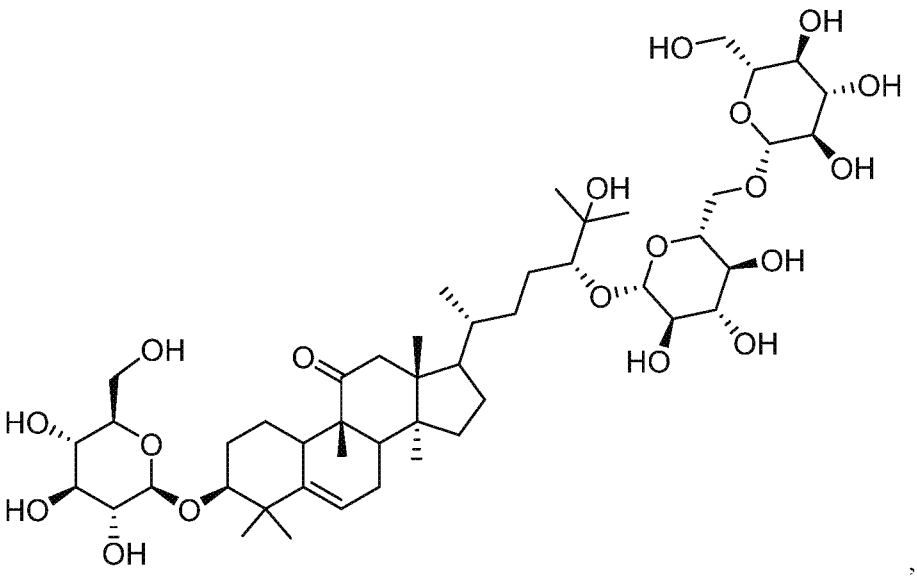


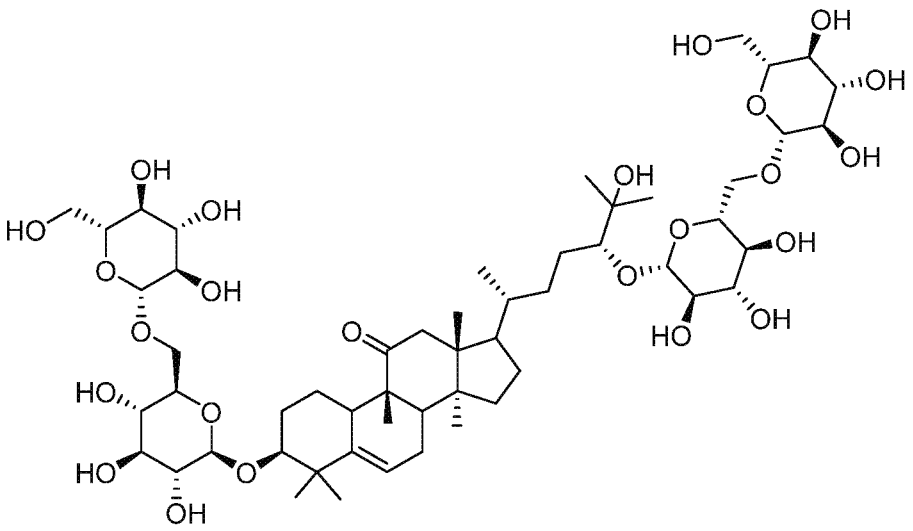
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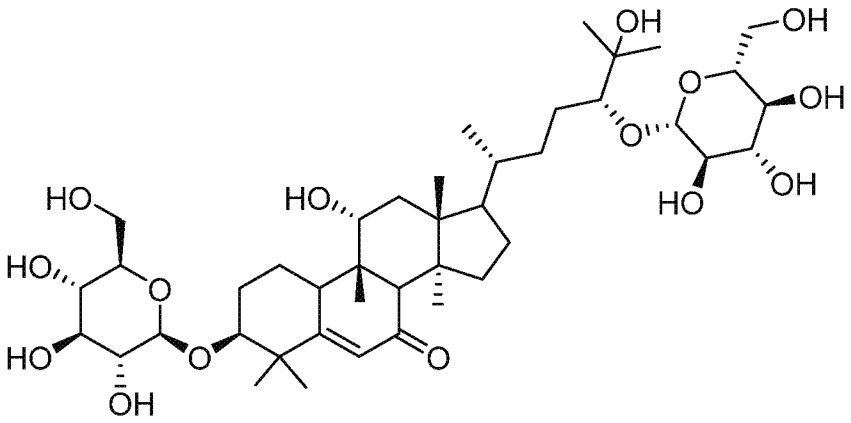
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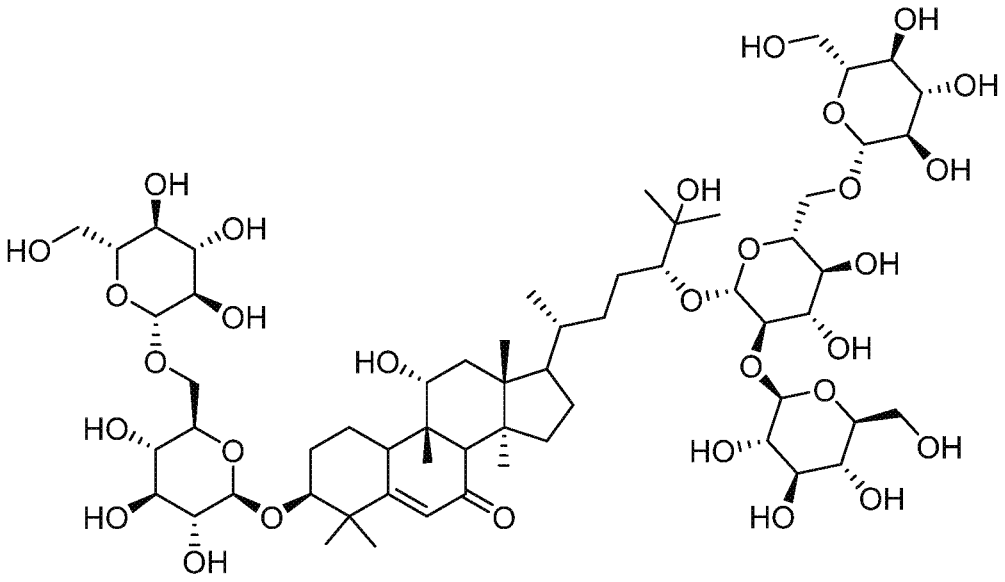




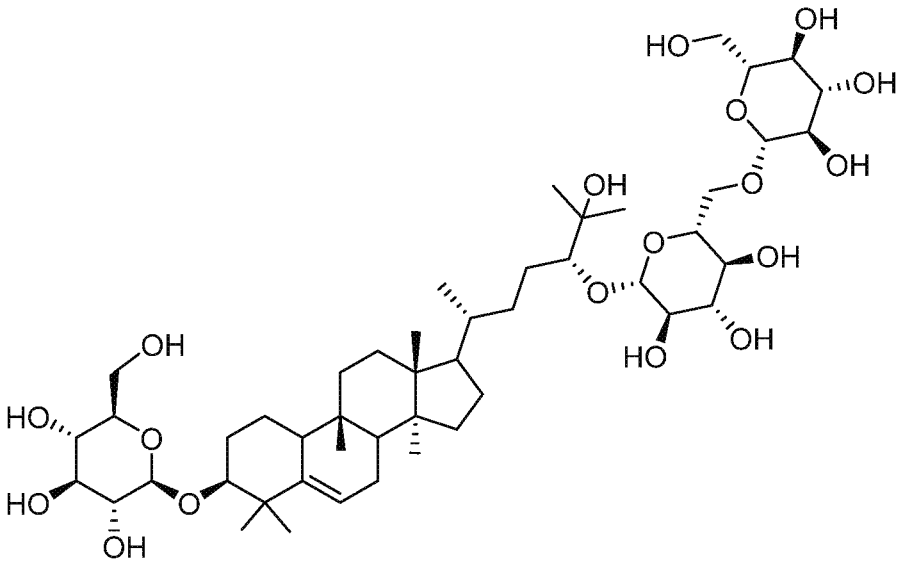
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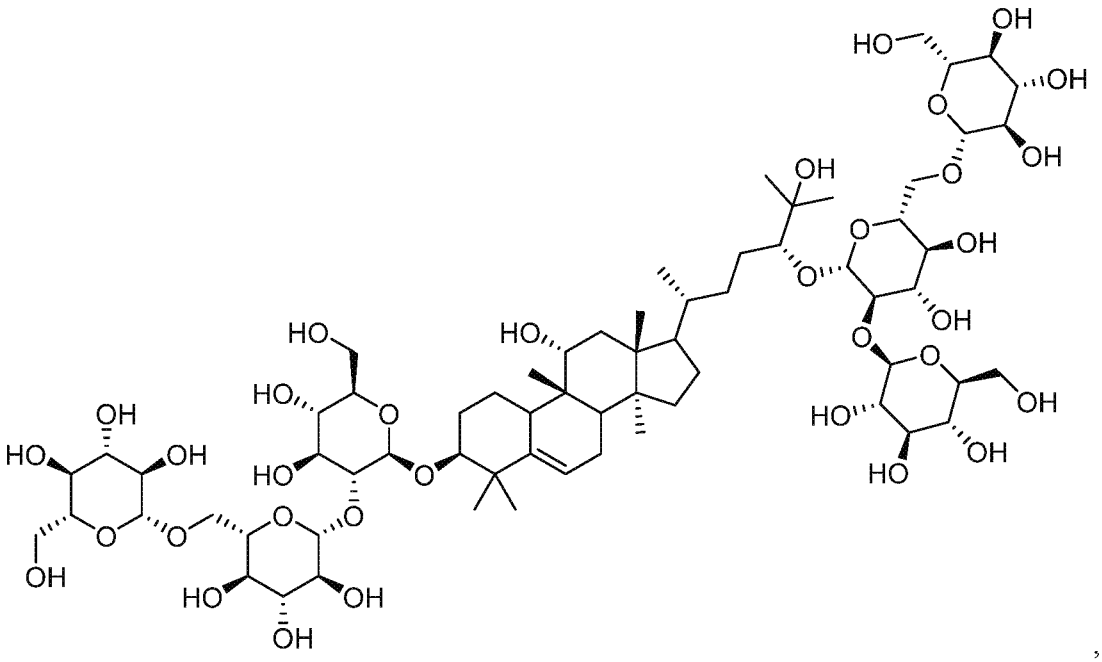


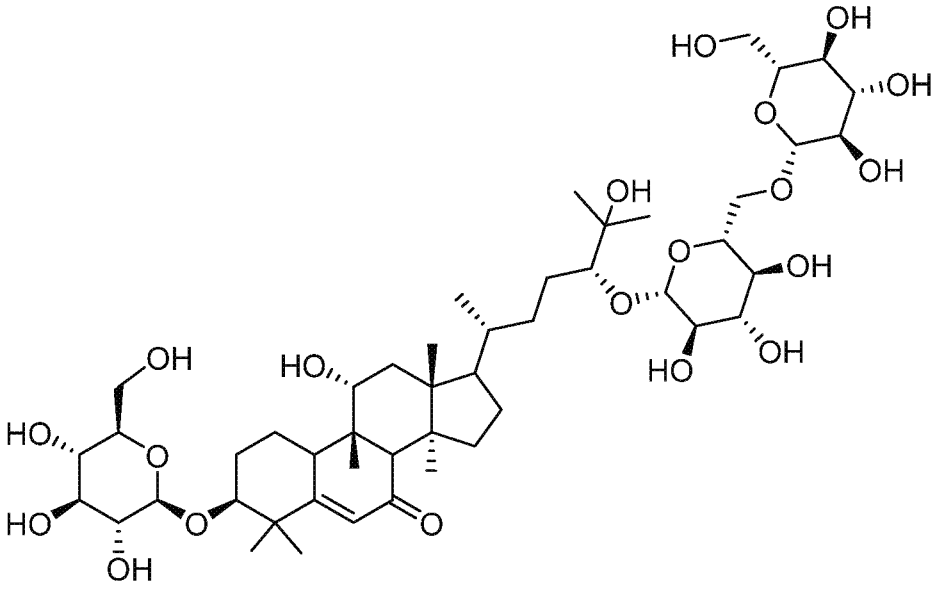
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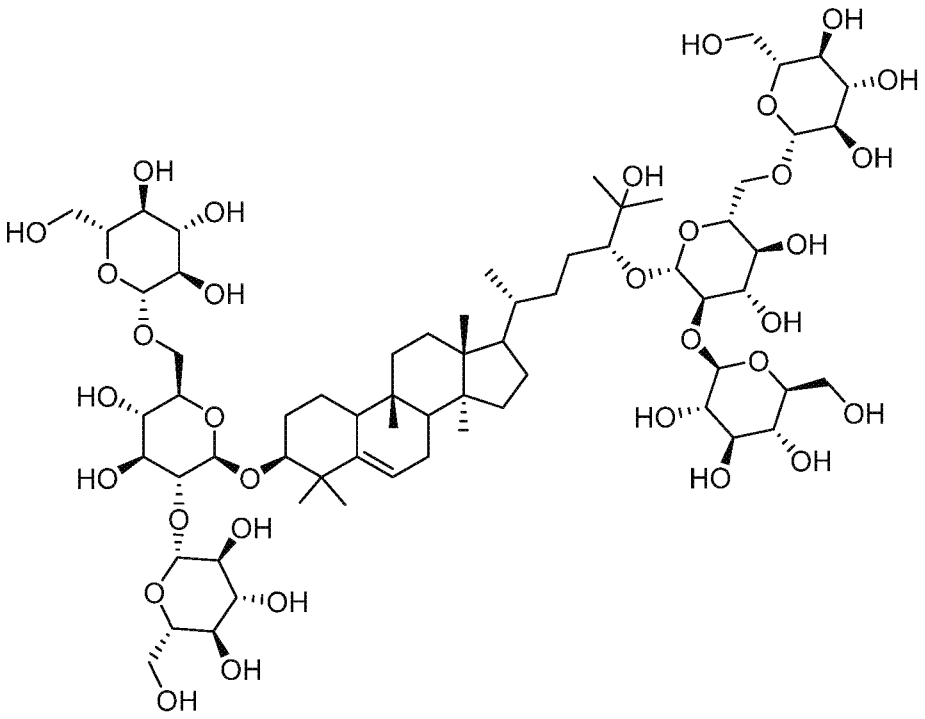
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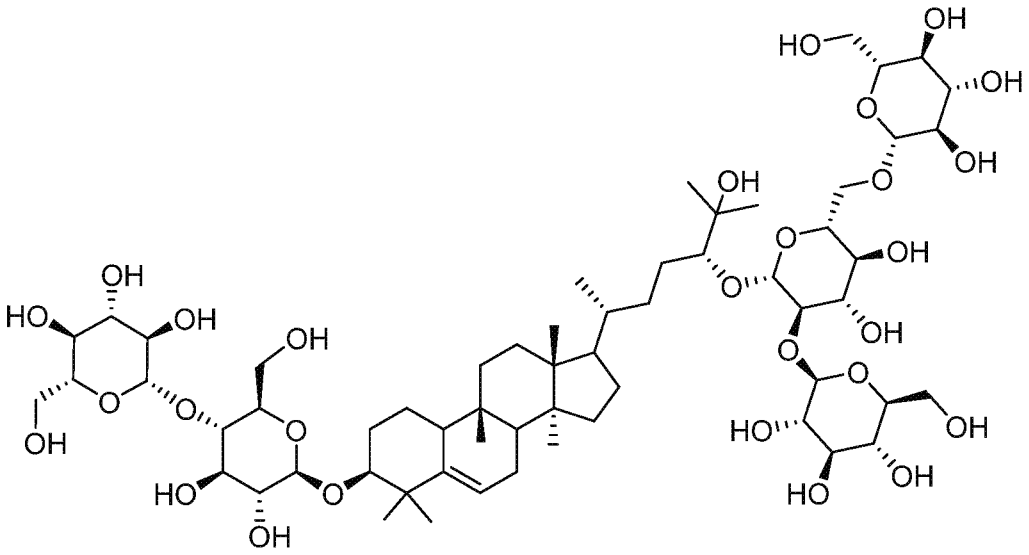




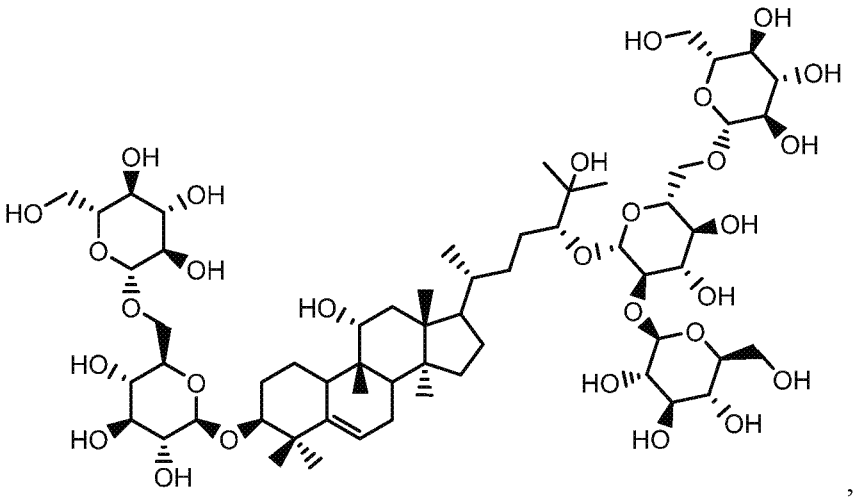
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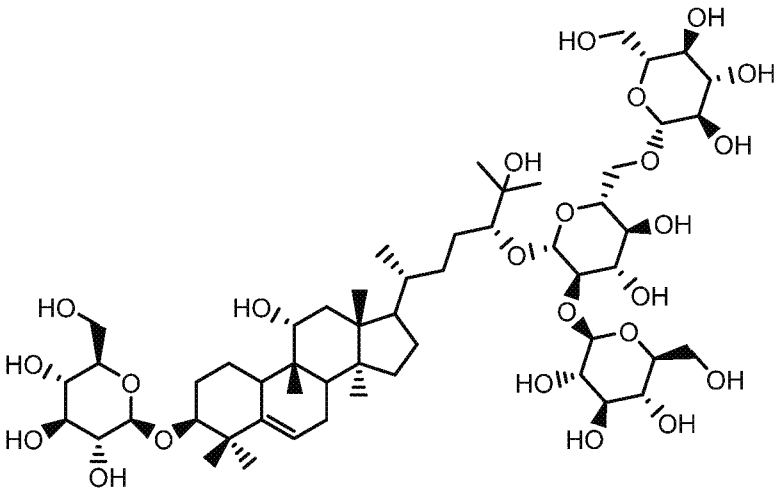
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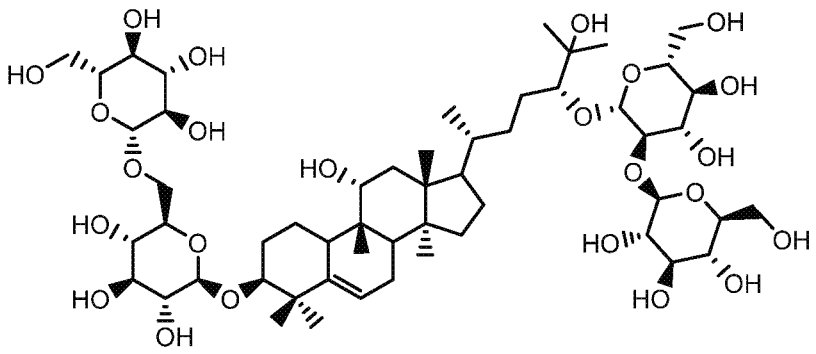
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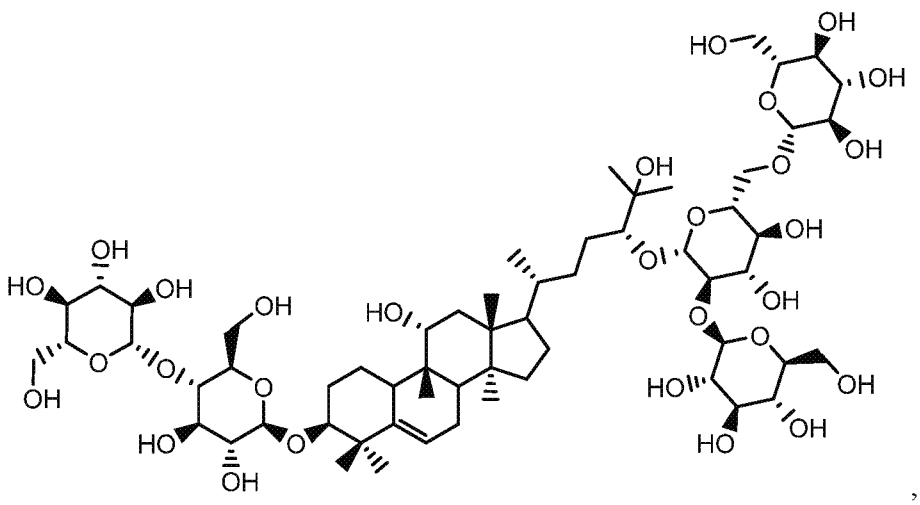
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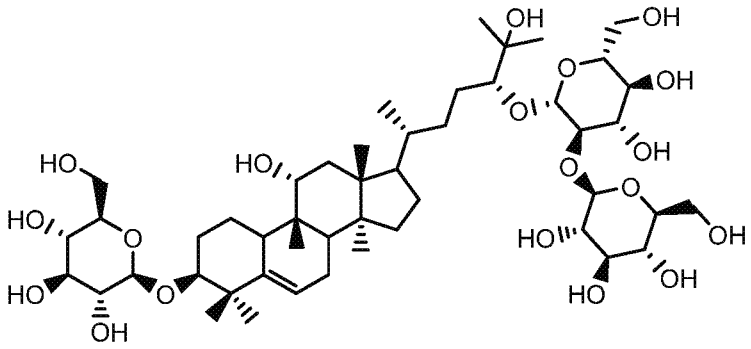
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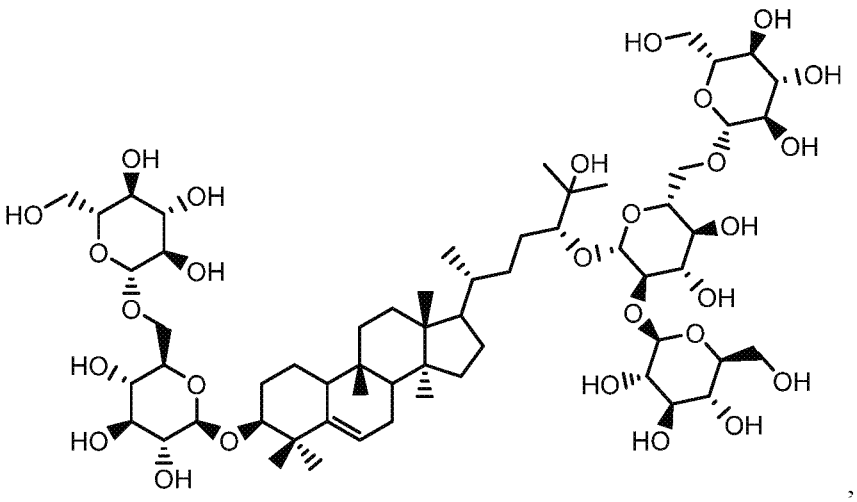
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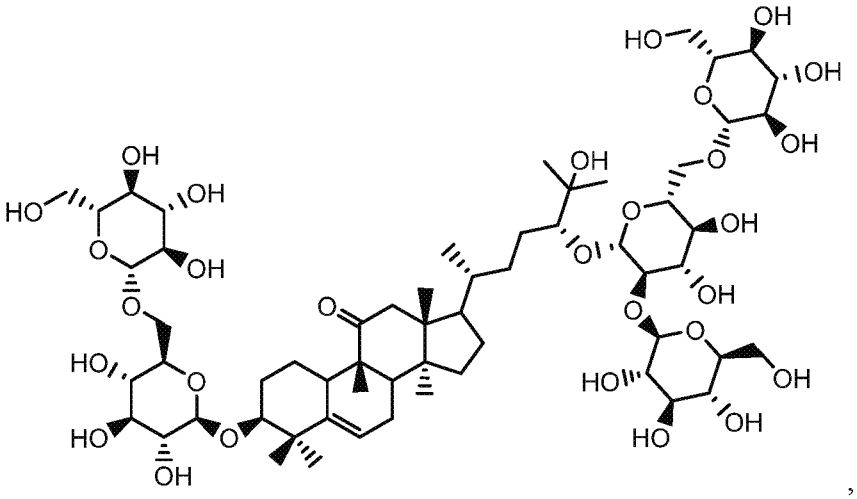
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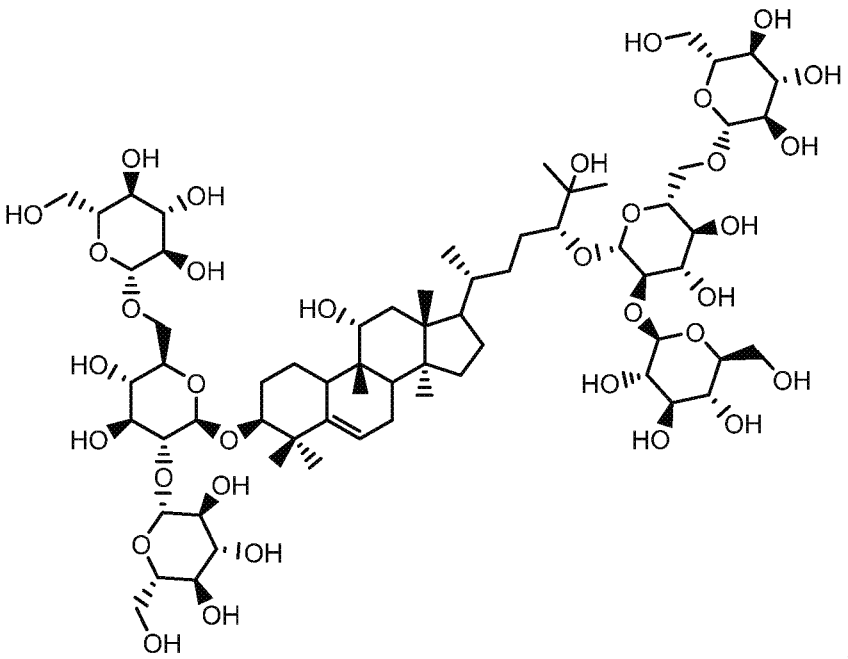
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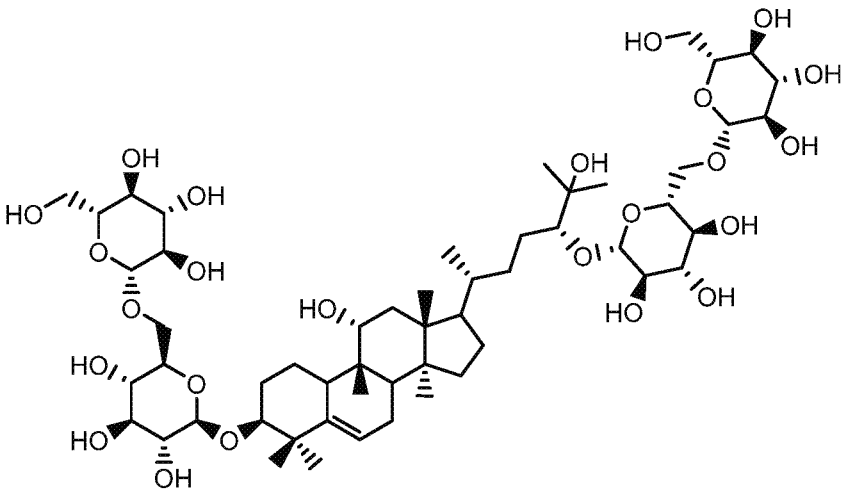
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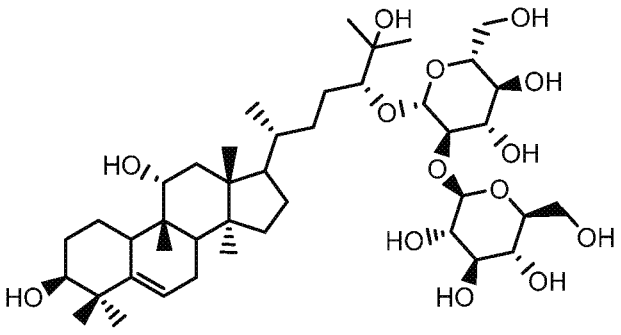
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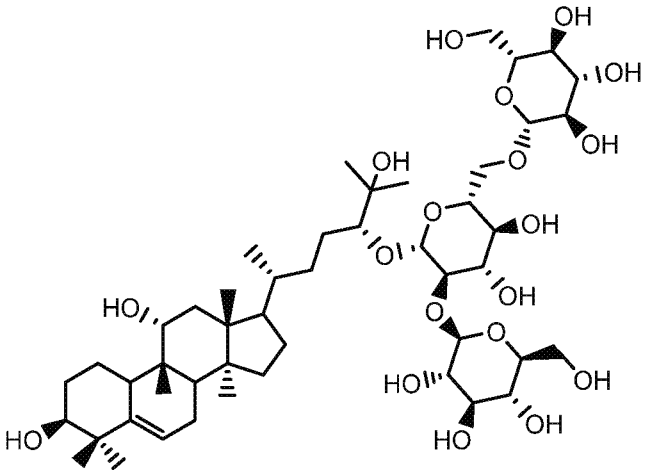
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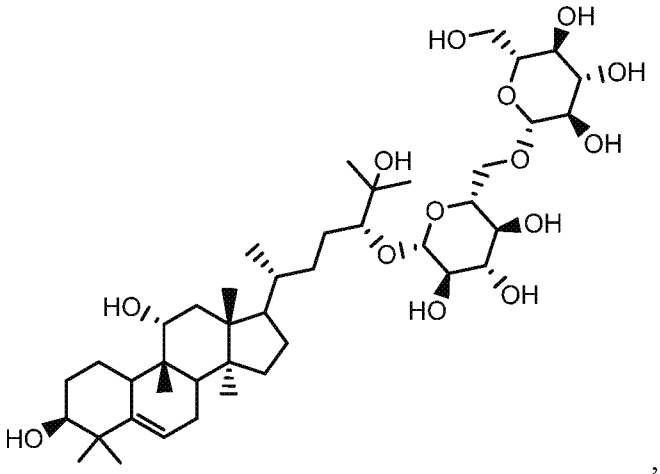
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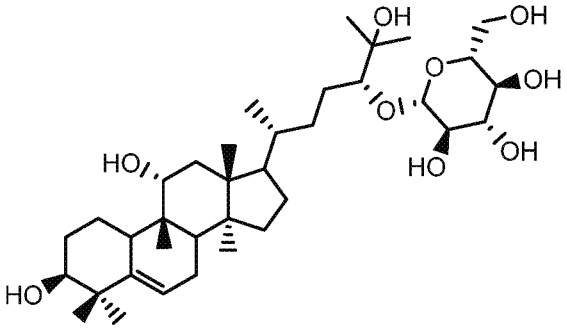
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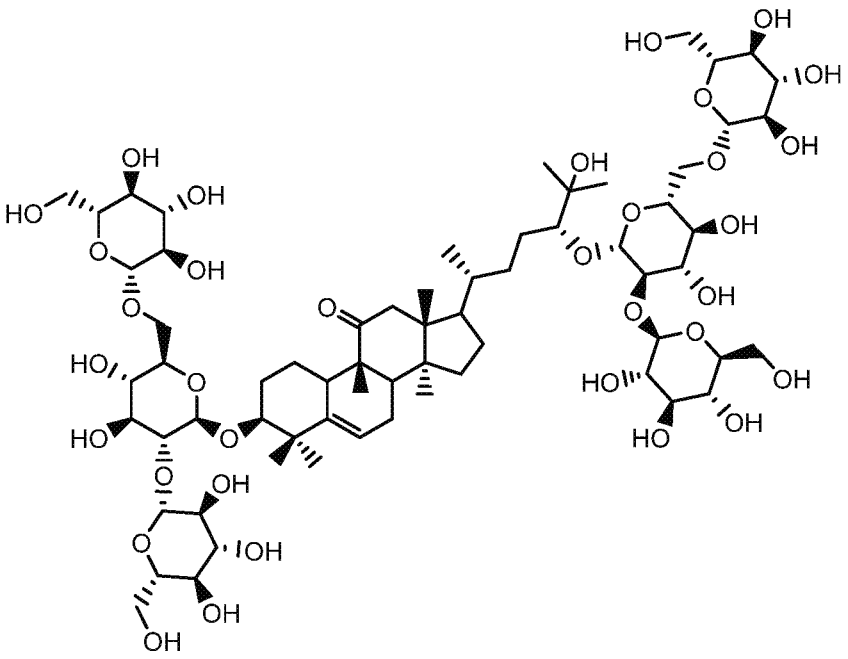
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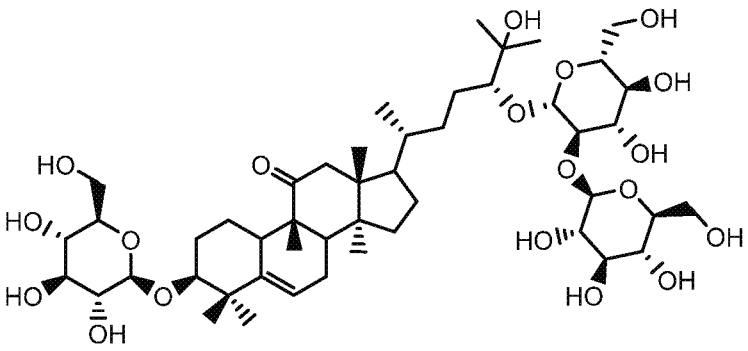
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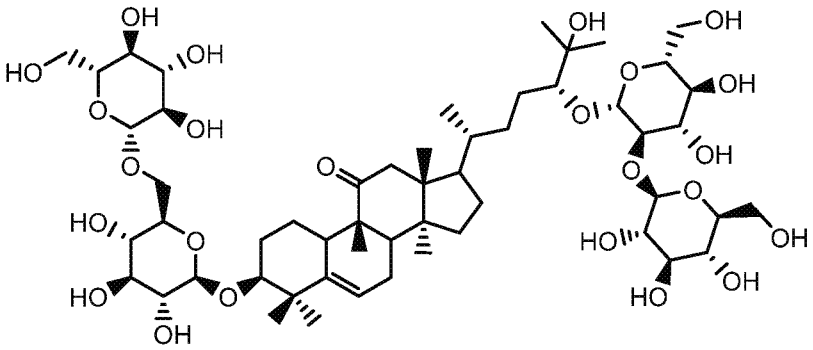
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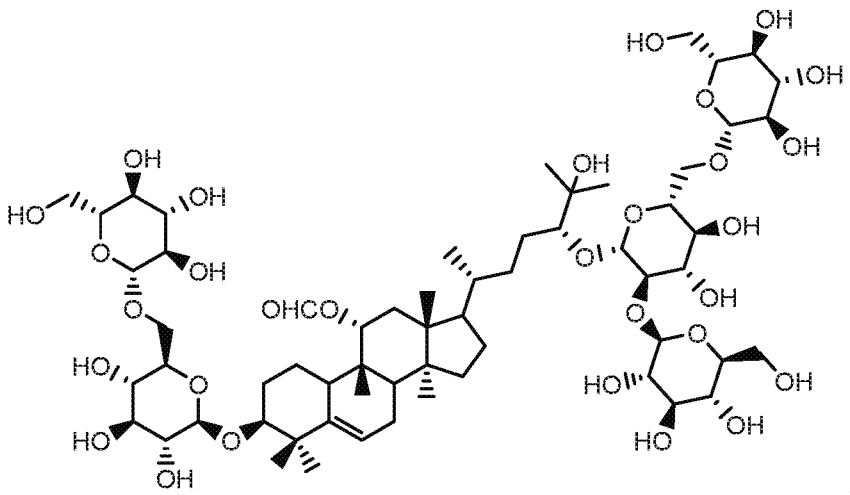
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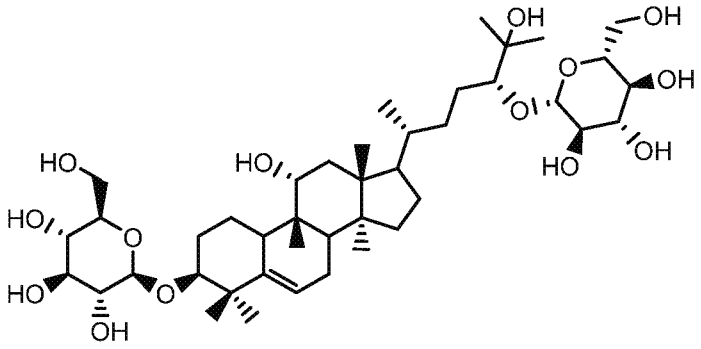
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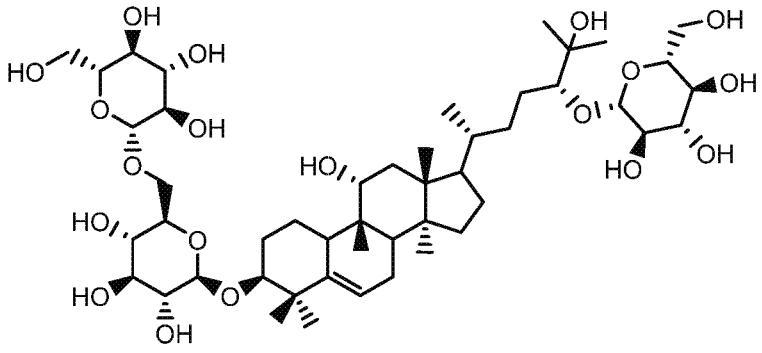
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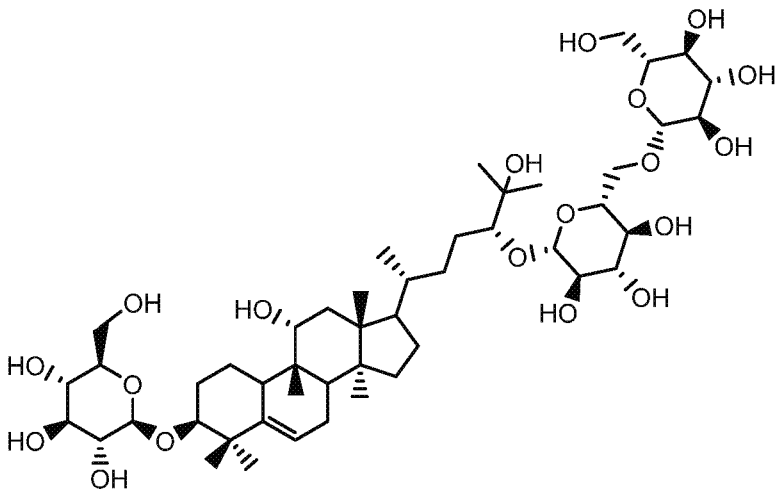
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, and salts and combinations thereof.

[0025] In some embodiments, the composition comprises greater than 70% by weight of one or more compounds of Formula (I). In some embodiments, the composition comprises greater than 80% by weight of one or more compounds of Formula (I). In some embodiments, the composition comprises greater than 90% by weight of one or more compounds of Formula (I).

[0026] In some embodiments, the composition is in solid form. In some embodiments, the compound is in crystalline form. In some embodiments, the compound is in amorphous form. In some embodiments, the compound is coating a solid carrier.

[0027] In some embodiments, the solid carrier are particles selected from the group consisting of lactose, modified food starch, gum Arabic, maltodextrin, modified corn starch, dextrose, xantham gum, carboxymethylcellulose, cellulose gel, cellulose gum, sodium caseinate, carrageenan, and combinations thereof.

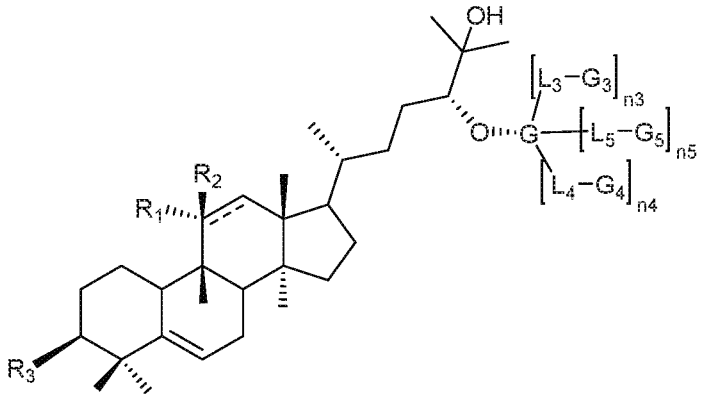
[0028] In some embodiments, the composition is in particulate form.

[0029] In some embodiments, the composition has an average particle size between 50 μm and 300 μm. In some embodiments, the composition has an average particle size between 80 μm and 200 μm. In some embodiments, the composition has an average particle size between 80 μm and 150 μm.

[0030] Some embodiments provide a composition comprising solid particles of the composition a liquid carrier. In some embodiments, the solid particles are suspended in the liquid carrier. In some embodiments, the liquid carrier is selected from water, an alcohol,

propylene glycol, triacetine, medium chain triglycerides, glycerin, and combinations thereof. In some embodiments, the liquid carrier is water. In some embodiments, the liquid carrier is an alcohol. In some embodiments, the alcohol is ethanol.

[0031] Some embodiments provide a composition comprising a solution of one or more compounds having the structure of formula (I):



(I), or a salt thereof.

[0032] In some embodiments, the concentration of the compound in the solution is greater than 300 ppm. In some embodiments, the concentration of the compound in the solution is greater than 500 ppm. In some embodiments, the concentration of the compound in the solution is greater than 800 ppm. In some embodiments, the concentration of the compound in the solution is greater than 0.1% by weight. In some embodiments, the concentration of the compound in the solution is greater than 0.5% by weight. In some embodiments, the concentration of the compound in the solution is greater than 1% by weight. In some embodiments, the concentration of the compound in the solution is greater than 5% by weight. In some embodiments, the concentration of the compound in the solution is greater than 10% by weight.

[0033] In some embodiments, the solution is aqueous. In some embodiments, the solution is an alcohol solution. In some embodiments, the alcohol is ethanol.

[0034] In some embodiments, the composition comprises a concentration of Mogroside III_E that is less than 100 ppm. In some embodiments, the composition comprises a concentration of Mogroside III_E that is less than 50 ppm. In some embodiments, the composition comprises a concentration of Mogroside III_E that is less than 20 ppm.

[0035] In some embodiments, the composition comprises a concentration of Mogroside III_E that is less than 5 ppm. In some embodiments, the composition comprises a

concentration of 11-oxo-Mogroside III_E of less than 30 ppm. In some embodiments, the composition comprises a concentration of 11-oxo-Mogroside III_E of less than 10 ppm. In some embodiments, the composition comprises a concentration of 11-oxo-Mogroside III_E of less than 1 ppm. In some embodiments, the composition comprises a concentration of 11-oxo-Mogroside III_E of less than 0.1 ppm.

[0036] In some embodiments, the composition comprises a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 1% by weight. In some embodiments, the composition comprises a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 0.5% by weight. In some embodiments, the composition comprises a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 0.1% by weight.

[0037] In some embodiments, the composition comprises a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 500 ppm. In some embodiments, the composition comprises a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 100 ppm.

[0038] In some embodiments, the composition comprises a combined concentration of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E of less than 500 ppm. In some embodiments, the composition comprises a combined concentration of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E of less than 100 ppm.

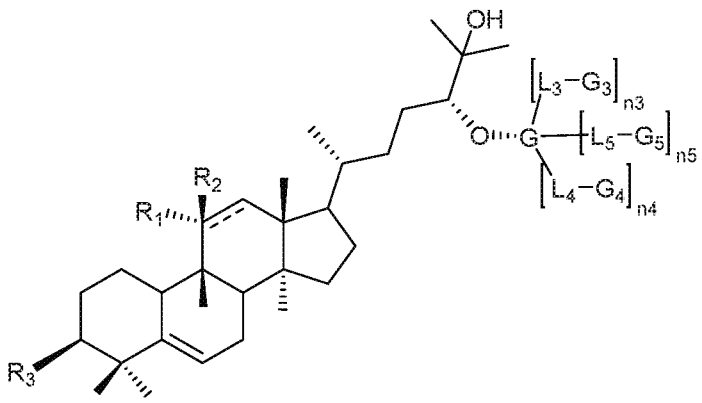
[0039] In some embodiments, the composition comprises a concentration of 11-oxo-mogrol of less than 0.5% by weight. In some embodiments, the composition comprises a concentration of 11-oxo-mogrol of less than 0.1% by weight. In some embodiments, the composition comprises a concentration of 11-oxo-mogrol of less than 100 ppm.

[0040] In some embodiments, the composition comprises one or more additional compounds selected from the group consisting of Mogroside V, Siamenoside I, Mogroside IV_E, Iso-mogroside V, Mogroside III_E, 11-Deoxy-mogroside V, 11-Oxo-mogroside V, Mogroside VI, Mogroside IV_A, Mogroside II_A, Mogroside II_{A1}, Mogroside II_{A2}, Mogroside I_A, 11-oxo-Mogroside VI, 11-oxo-Mogroside III_E, 11-oxo-Mogroside IV_E, Mogroside I_E, Mogrol, 11-oxo-mogrol, Mogroside II_E, Mogroside III_{A2}, and Mogroside III.

[0041] In some embodiments, the composition comprises one ormore additional compound selected from the group consisting of steviosides, rebaudiosides, glycyrrhizic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzein, curculin, mabinlin, pentadin, monatin, abrusosides, albiziasaponins, Baiyunoside, bryoside, cussoracosides, cyclocarioside, mukurozioside, osladin, periandrin, phlomisoside, Polypodosides, pterocaryosides, rubusosides, telosmosides, selligueain A, hernandulcin, phlorizin, trilobatin, phylodulcin, dulcoside A, gaudichaudioside A, and combinations thereof.

[0042] In some embodiments, the composition has a pH of less than or equal to 7. In some embodiments, the composition has a pH of less than 7. In some embodiments, the compsosition has a pH greater than or equal to 7. In some embodiments, the composition has a pH of greater than 7. In some embodiments, the composition has a pH between 6 and 10. In some embodiments, the composition has a pH between 6 and 9. In some embodiments, the composition has a pH between 6 and 8. In some embodiments, the composition has a pH between 6 and 7. In some embodiments, the composition has a pH between 1 and 7. In some embodiments, the composition has a pH between 1 and 6. In some embodiments, the composition has a pH between 1 and 5. In some embodiments, the composition has a pH between1 and 4. In some embodiments, the composition has a pH between 1 and 3. In some embodiments, the composition has a pH of about 2. In some embodiments, the composition has a pH of about 2.5. In some embodiments, the composition has a pH of about 1.5. In some embodiments, the composition has a pH of about 3. In some embodiments, the composition has a pH of about 3.5. In some embodiments, the composition has a pH of about 4. In some embodiments, the composition has a pH of about 4.5. In some embodiments, the composition has a pH of about 5.

[0043] Some embodiments provide a composition, comprising a bulking agent and one or more compounds having the structure of formula (I):



(I), or a salt thereof.

[0044] In some embodiments, the composition comprises greater than 0.5% by weight of the compound. In some embodiments, the composition comprises greater than 1% by weight of the compound. In some embodiments, the composition comprises greater than 2% by weight of the compound. In some embodiments, the composition comprises greater than 3% by weight of the compound. In some embodiments, the composition comprises between 0.5% and 5% by weight of the compound. In some embodiments, the composition comprises between 1% and 5% by weight of the compound.

[0045] In some embodiments, the composition comprises between greater than 30% by weight of the bulking agent. In some embodiments, the composition comprises between greater than 40% by weight of the bulking agent. In some embodiments, the composition comprises between greater than 50% by weight of the bulking agent. In some embodiments, the composition comprises between greater than 70% by weight of the bulking agent. In some embodiments, the composition comprises between greater than 90% by weight of the bulking agent.

[0046] In some embodiments, the composition comprises between 30% and 99.5% by weight of the bulking agent. In some embodiments, the composition comprises between 30% and 95% by weight of the bulking agent. In some embodiments, the composition comprises between 50% and 99.5% by weight of the bulking agent.

[0047] In some embodiments, the bulking agent is selected from the group consisting of maltodextrin, dextro-maltodextrin blends, corn syrup solids, sucrose, fructose, glucose, invert sugar, sorbitol, xylose, ribulose, mannose, mannitol, galactitol, lactitol, isomalt, maltose, tagatose, lactose, inulin, glycerol, propylene glycol, polydextrose, fructooligosaccharides, cellulose, cellulose derivatives, erythritol, and combinations thereof.

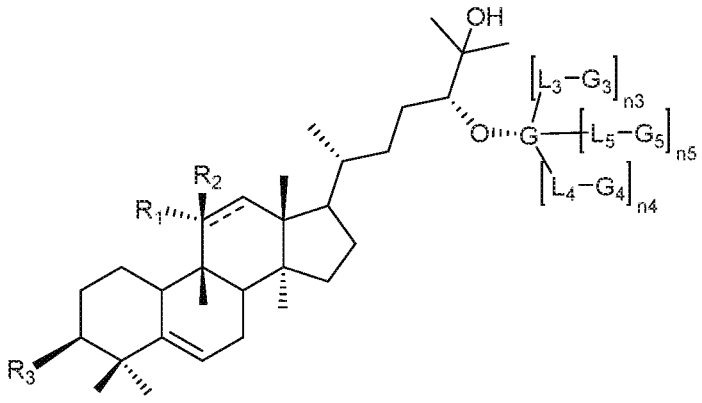
[0048] In some embodiments, the bulking agent is maltodextrin. In some embodiments, the bulking agent is lactose. In some embodiments, the bulking agent is erythritol. In some embodiments, the bulking agent is mannitol.

[0049] In some embodiments, the bulking agent is in particulate form and the compound is present as a coating on the particles. In some embodiments, the composition is in particulate form.

[0050] In some embodiments, the average particle size is between 200 μm and 2 mm. In some embodiments, the average particle size is between 200 μm and 500 μm. In some embodiments, the average particle size is between 500 μm and 700 μm. In some embodiments, the average particle size is between 800 μm and 1.5 mm.

[0051] In some embodiments, the composition is a tabletop sweetener product, comprising a packet containing the composition. In some embodiments, the packet is a single serving packet. In some embodiments, the packet has a width between 0.2 inches and 2 inches. In some embodiments, the packet has a width between 0.5 inches and 1 inch. In some embodiments, the packet has a length between 1 inch and 5 inches. In some embodiments, the packet has a length between 1.5 inches and 3 inches. In some embodiments, the product comprises between 0.5 g and 3 g of the composition. In some embodiments, the product comprises between 0.75 g and 1.5 g of the composition.

[0052] Some embodiments provide an ingestible composition, comprising an ingestibly acceptable ingredient and one or more compounds having the structure of formula (I):



(I), or a salt thereof.

[0053] In some embodiments, the concentration of the compound in the composition is greater than 100 ppm. In some embodiments, the concentration of the compound is greater

than 300 ppm. In some embodiments, the concentration of the compound is greater than 500 ppm. In some embodiments, the concentration of the compound is greater than 800 ppm.

[0054] In some embodiments, the concentration of the compound is between 300 ppm and 2000 ppm. In some embodiments, the concentration of the compound is between 300 ppm and 1500 ppm. In some embodiments, the concentration of the compound is between 800 ppm and 1500 ppm.

[0055] In some embodiments, the ingestibly acceptable ingredient comprises vegetable juice, fruit juice, beer, or wine. In some embodiments, the ingestibly acceptable ingredient comprises an acid. In some embodiments, the acid is citric acid or phosphoric acid.

[0056] In some embodiments, the ingestibly acceptable ingredient comprises a bitterant.

[0057] In some embodiments, the ingestibly acceptable ingredient comprises a coloring agent.

[0058] In some embodiments, the ingestibly acceptable ingredient comprises a preservative.

[0059] In some embodiments, the ingestibly acceptable ingredient comprises a functional ingredient.

[0060] In some embodiments, the ingestibly acceptable ingredient comprises a buffer.

[0061] In some embodiments, the ingestibly acceptable ingredient comprises a natural flavor. In some embodiments, the ingestibly acceptable ingredient comprises an artificial flavor.

[0062] In some embodiments, the ingestibly acceptable ingredient comprises a food additive.

[0063] In some embodiments, the ingestibly acceptable ingredient comprises a sour flavorant.

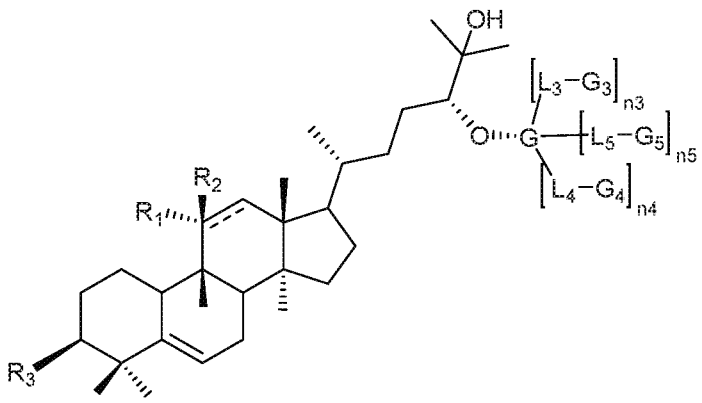
[0064] In some embodiments, the ingestibly acceptable ingredient comprises one or more fats, oils, or emulsions.

[0065] In some embodiments, the ingestibly acceptable ingredient comprises a flour or a vegetable powder.

[0066] In some embodiments, the composition is a food or beverage product. In some embodiments, the food or beverage product is selected from colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies. In some embodiments, the food or beverage product is a soft drink.

[0067] In some embodiments, the composition has a pH of less than or equal to 7. In some embodiments, the composition has a pH of less than 7. In some embodiments, the compsosition has a pH greater than or equal to 7. In some embodiments, the composition has a pH of greater than 7. In some embodiments, the composition has a pH between 6 and 10. In some embodiments, the composition has a pH between 6 and 9. In some embodiments, the composition has a pH between 6 and 8. In some embodiments, the composition has a pH between 6 and 7. In some embodiments, the composition has a pH between 1and 7. In some embodiments, the composition has a pH between 1 and 6. In some embodiments, the composition has a pH between 1 and 5. In some embodiments, the composition has a pH between 1 and 4. In some embodiments, the composition has a pH between 1 and 3. In some embodiments, the composition has a pH of about 2. .In some embodiments, the composition has a pH of about 2.5. In some embodiments, the composition has a pH of about 1.5. In some embodiments, the composition has a pH of about 3. In some embodiments, the composition has a pH of about 3.5. In some embodiments, the composition has a pH of about 4. In some embodiments, the composition has a pH of about 4.5. In some embodiments, the composition has a pH of about 5.

[0068] Some embodiments provide a method of increasing the sweetness of an ingestible composition, comprising combining the ingestible composition with at least one compound of formula (I):



(I), or a salt thereof.

[0069] Some embodiments provide a method of increasing the sweetness of a food or beverage product, comprising adding the composition to a food or beverage product, thereby increasing the sweetness of the food or beverage product.

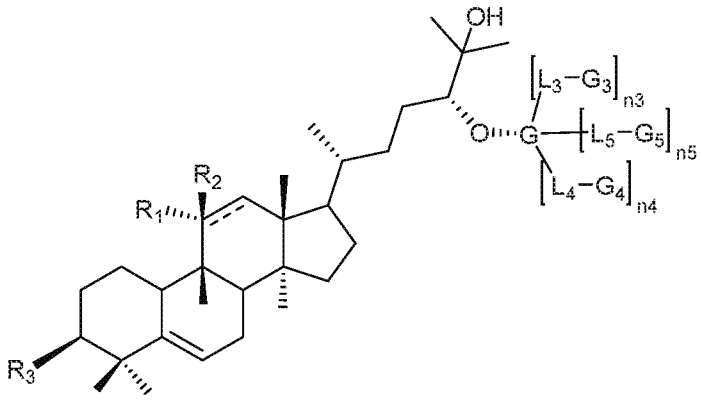
[0070] Some embodiments provide a method of preparing a food or beverage product, comprising combining the composition with one or more ingestibly acceptable ingredients.

[0071] Some embodiments provide a method of preparing a food or beverage product, comprising combining a first plurality of ingestibly acceptable ingredients to form an intermediate mixture; and dispensing a dose of the composition into the intermediate mixture.

[0072] In some embodiments, the method further comprises, after dispensing the dose of the composition, adding one or more additional ingestibly acceptable ingredients.

[0073] In some embodiments, the method further comprises, mixing the ingestibly acceptable ingredients and the composition.

[0074] Some embodiments provide a flavoring concentrate, comprising a flavoring agent and a compound having the structure of formula (I):



(I), or a salt thereof.

[0075] In some embodiments, the flavoring agent is an artificial flavoring ingredient. In some embodiments, the flavoring agent is a natural flavoring ingredient.

[0076] In some embodiments, the compound is at a concentration greater than 0.1% by weight. In some embodiments, the compound is at a concentration greater than 0.5% by weight. In some embodiments, the compound is at a concentration greater than 1% by weight.

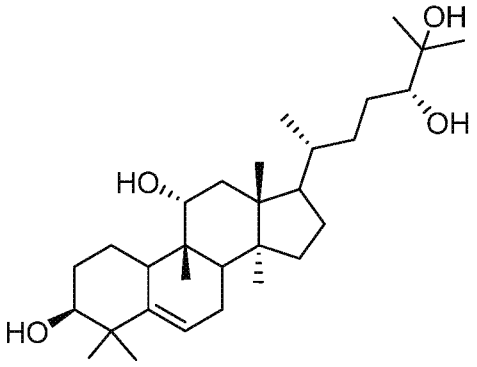
[0077] In some embodiments, the concentrate is a liquid. In some embodiments, the concentrate is a solution. In some embodiments, the concentrate is a solid.

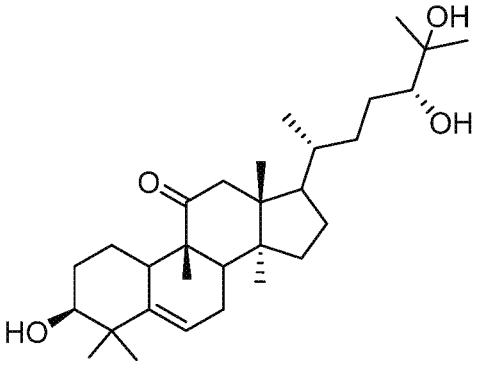
[0078] In some embodiments, the compound is present in a concentration that is at least 2 times a concentration of the compound in a ready-to-use food or beverage product.

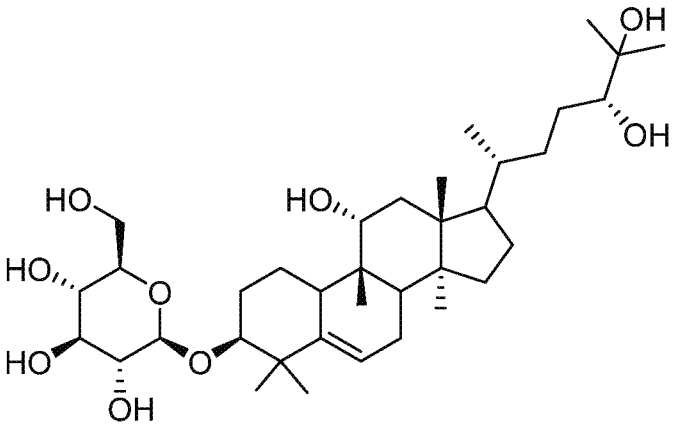
[0079] Some embodiments provide a method of preparing a food or beverage product, comprising combining the concentrate with a diluent. In some embodiments, the diluent is water. In some embodiments, the diluent is carbonated water. In some embodiments, the diluent is nitrogen infused water. In some embodiments, the diluent is aqueous ethyl alcohol.

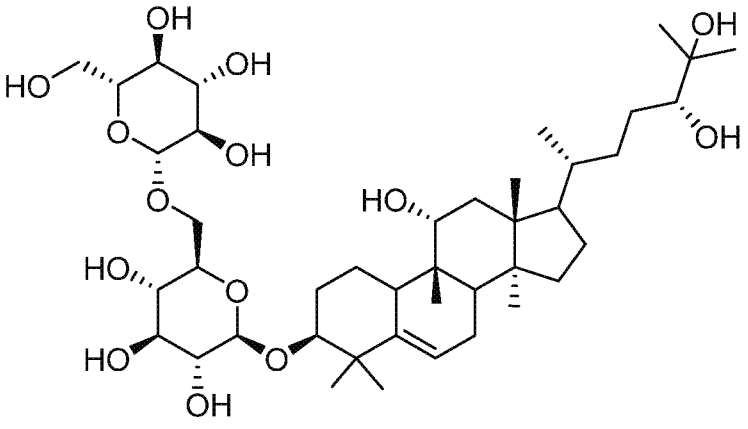
[0080] In some embodiments, the food or beverage product is selected from colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies.

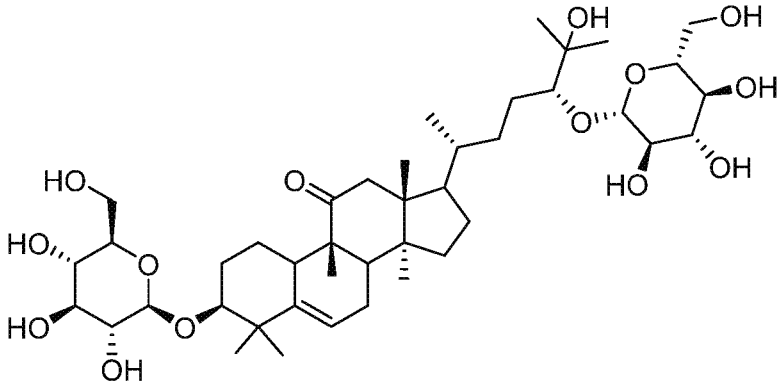
[0081] In some embodiments of the compounds, compositions, products, methods, or concentrates described above, formula (I) is not selected from:



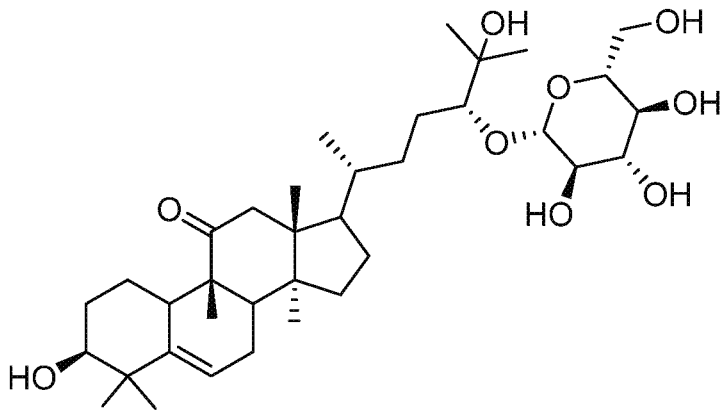




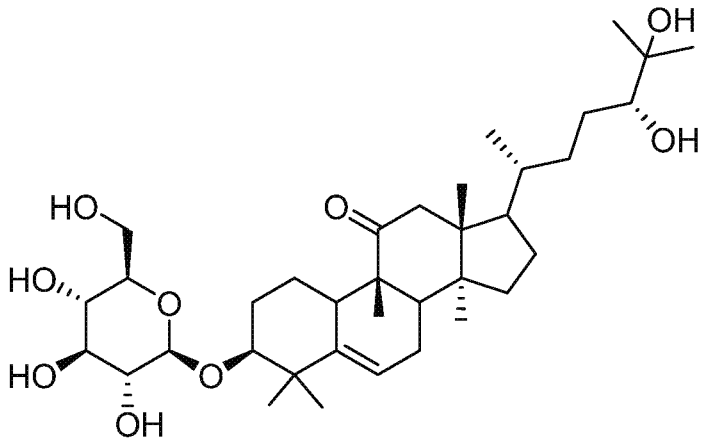




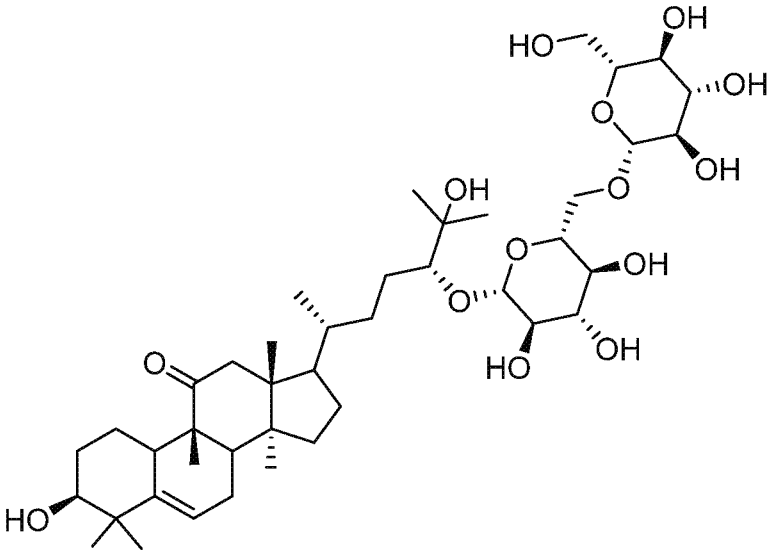
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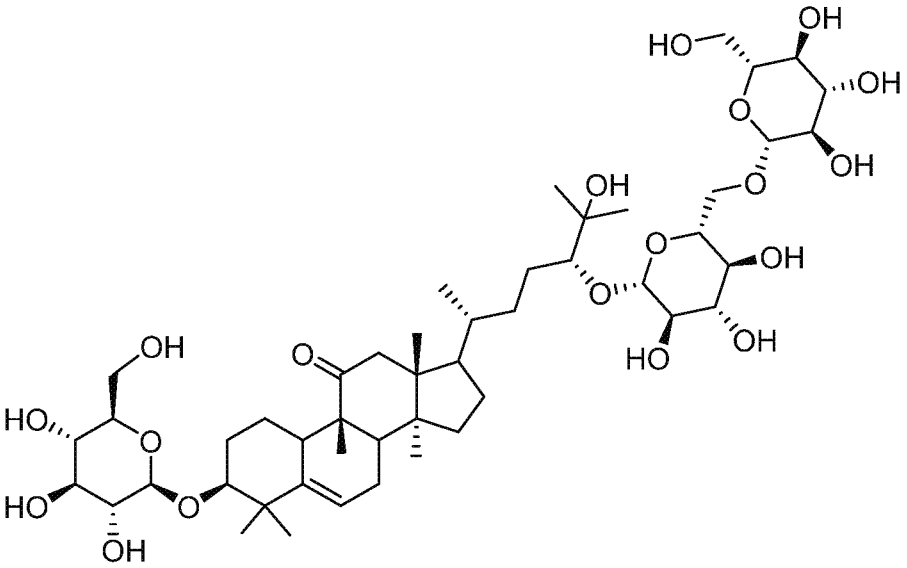
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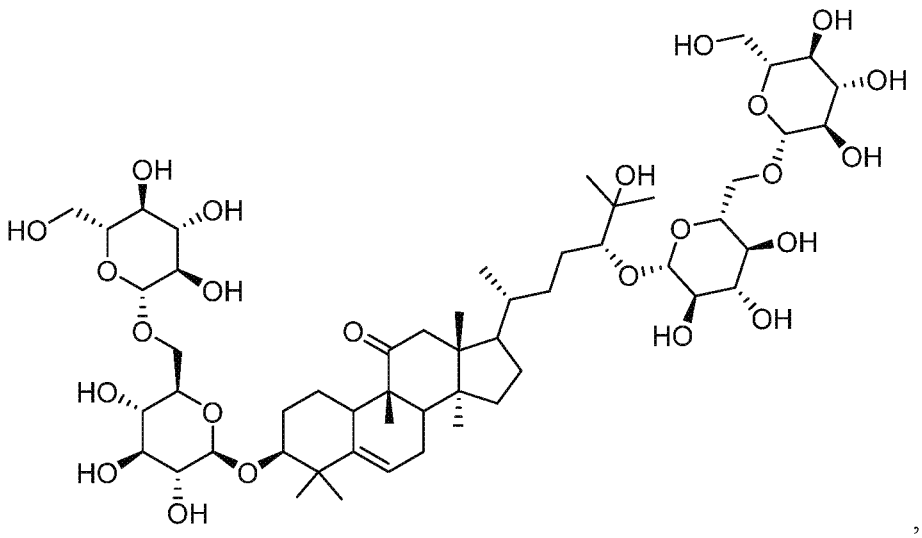
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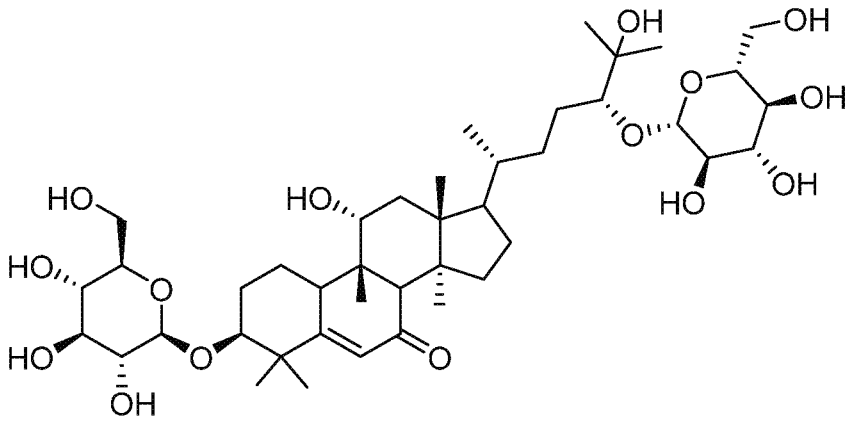
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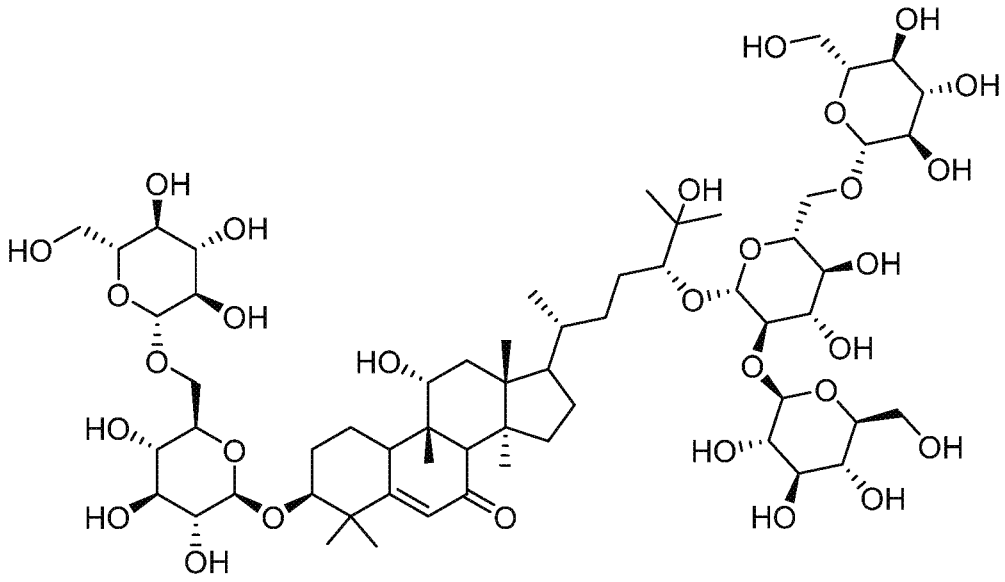
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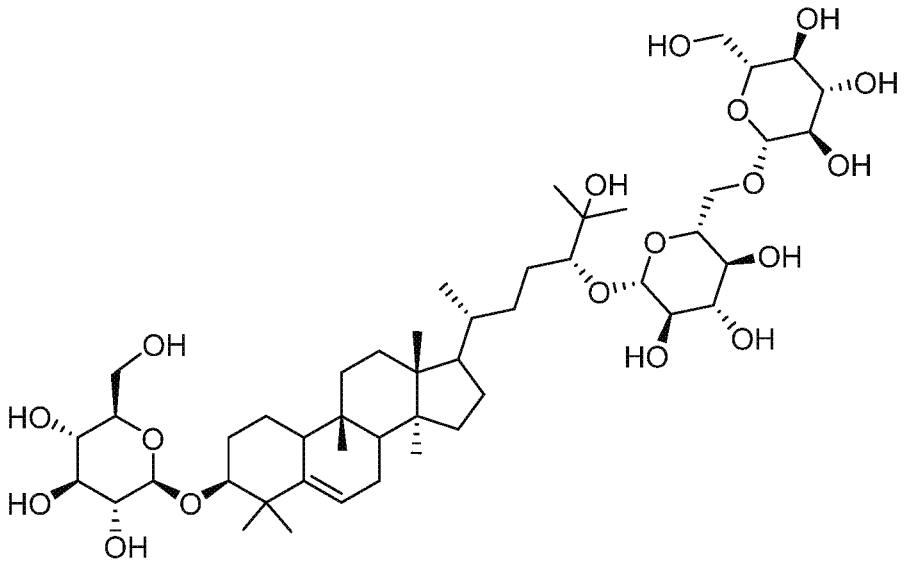
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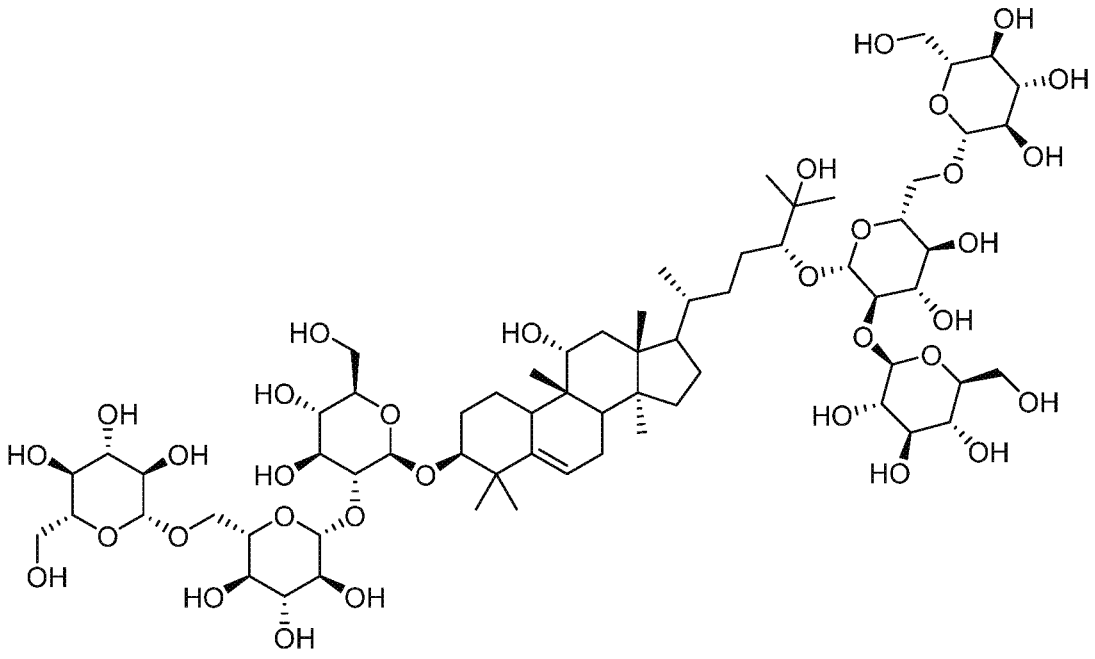
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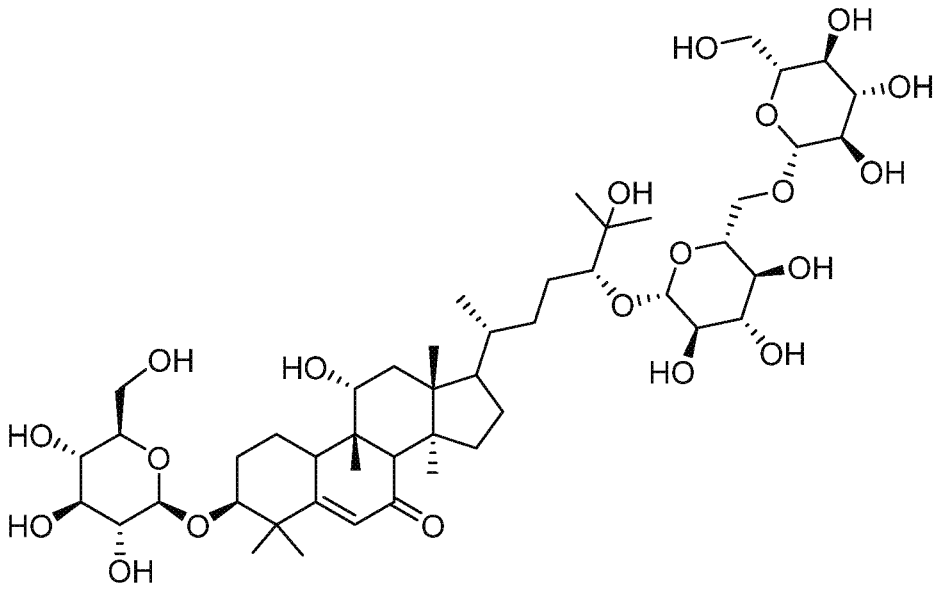
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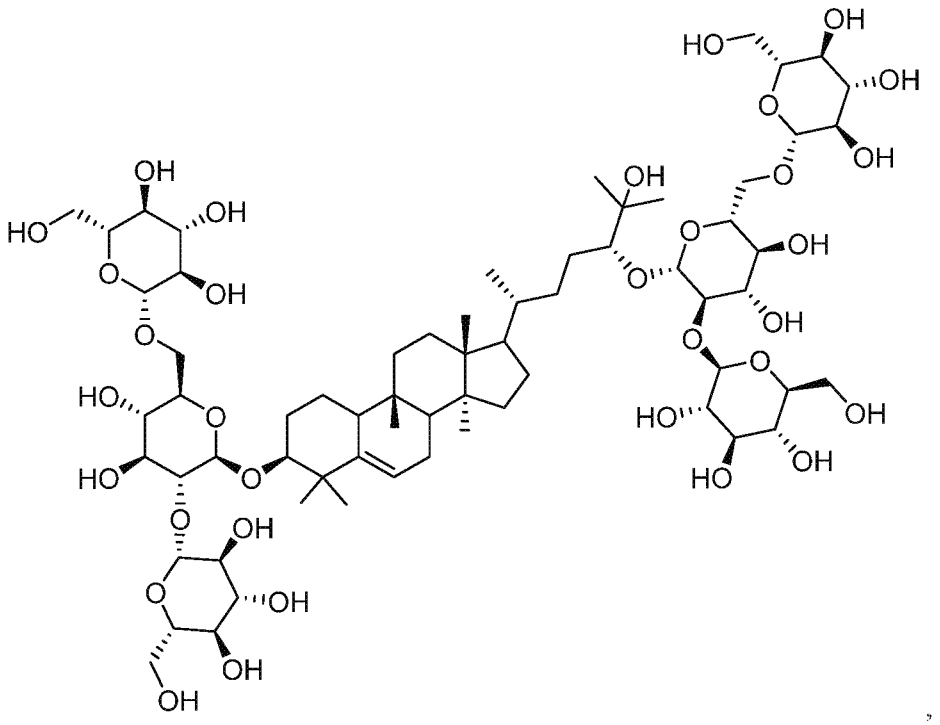


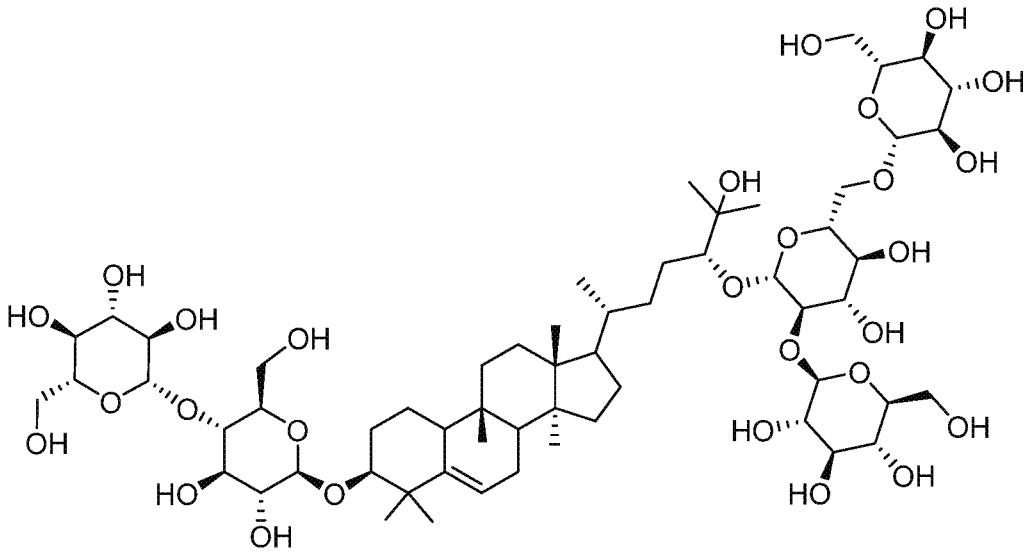
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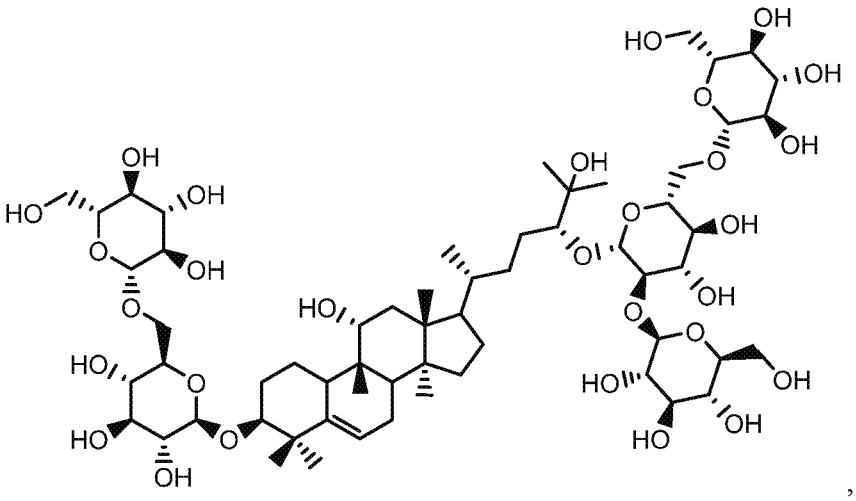
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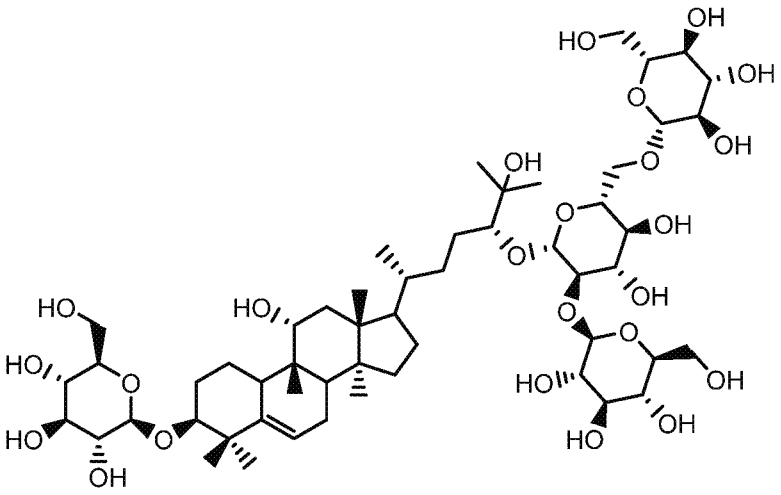




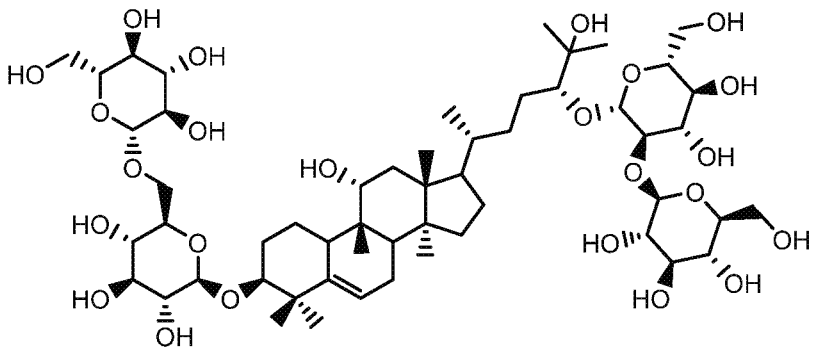
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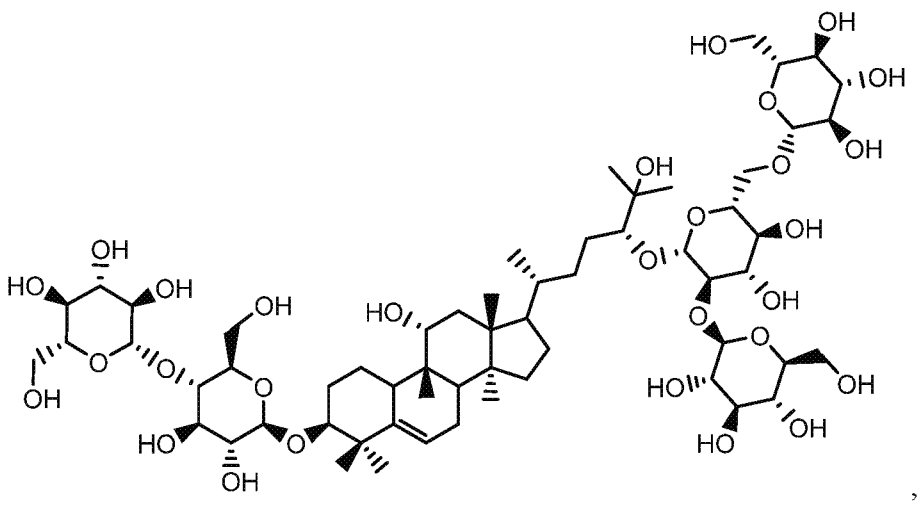
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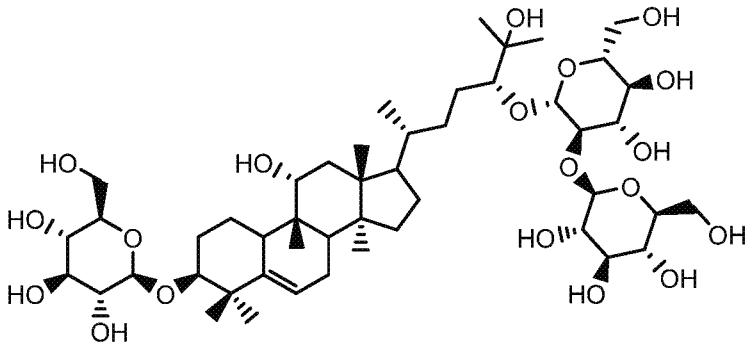
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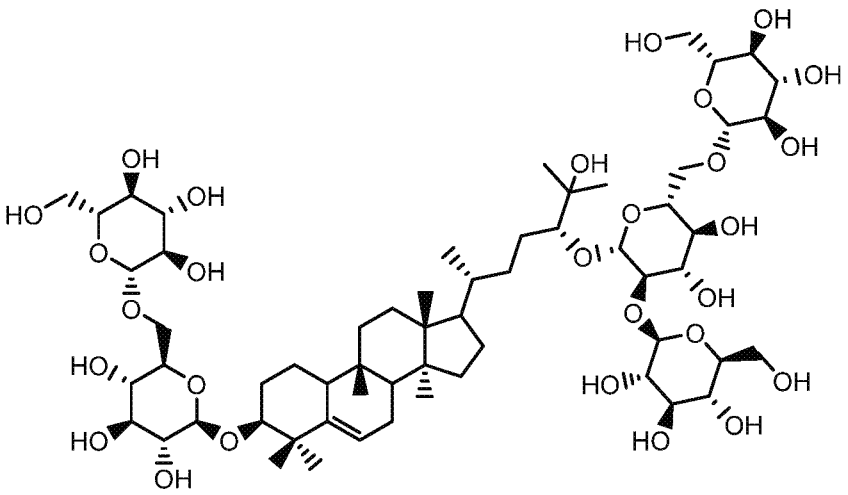
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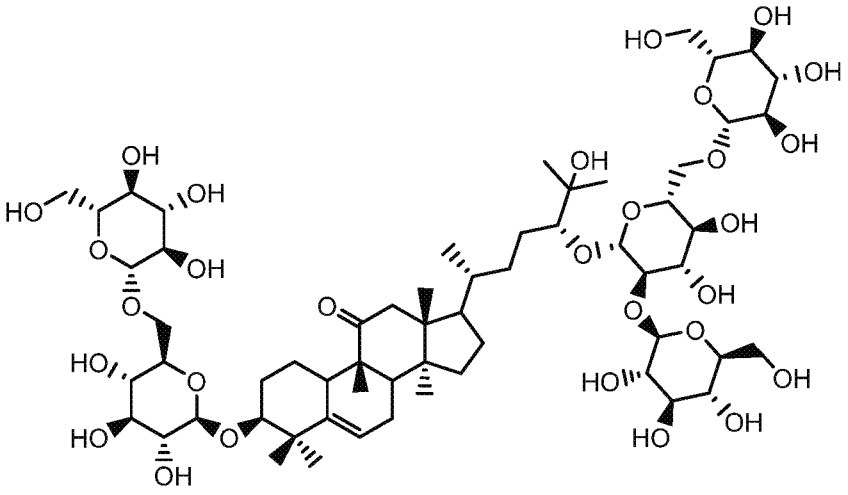
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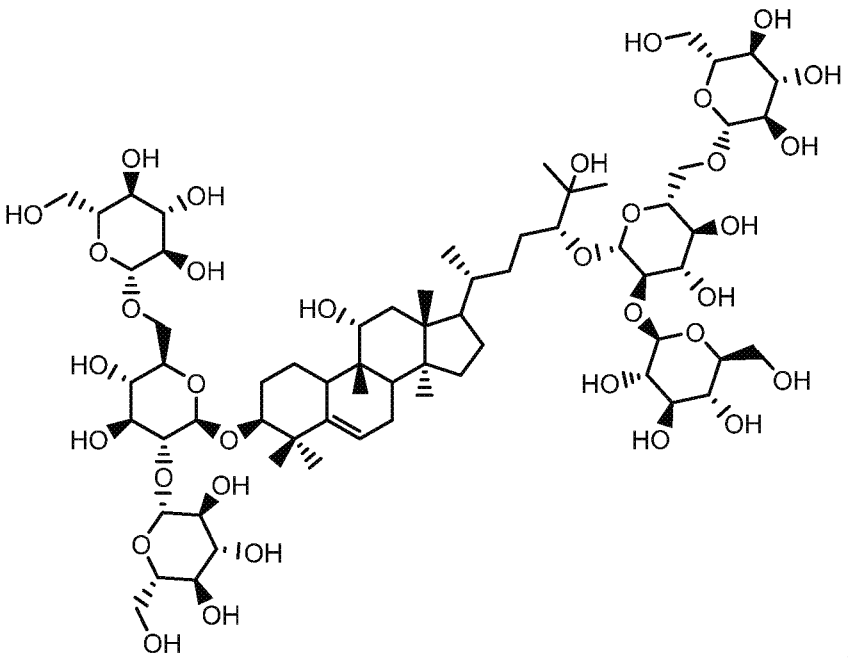
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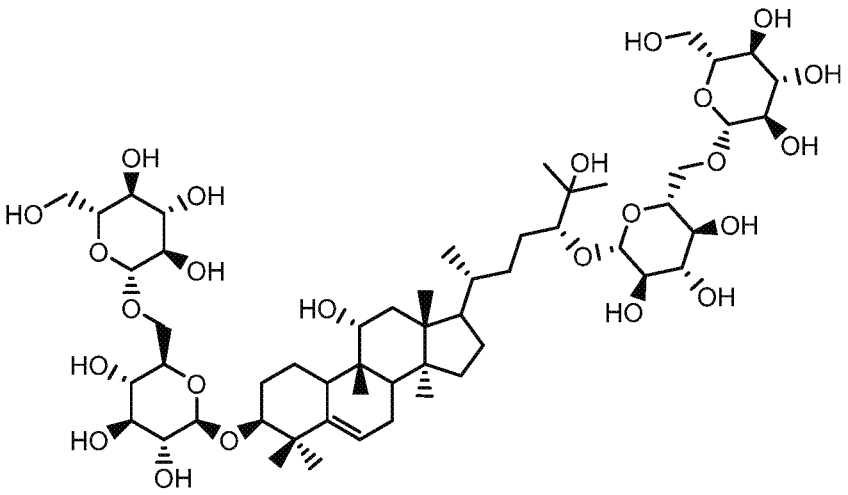
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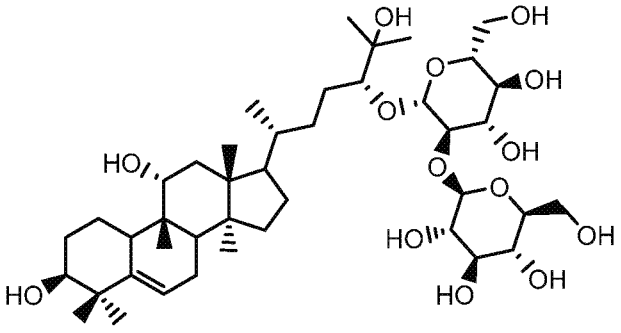
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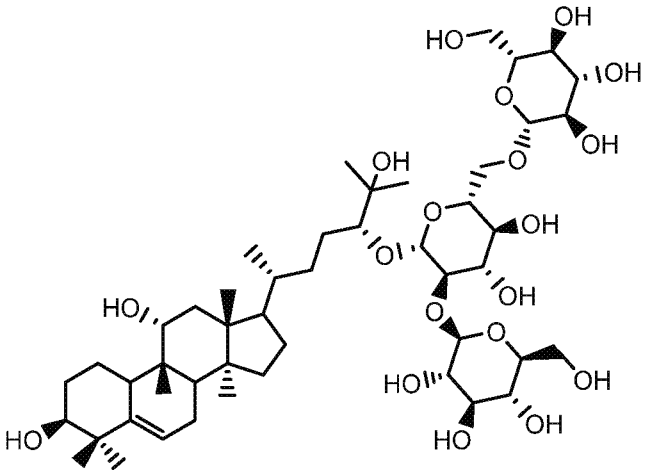
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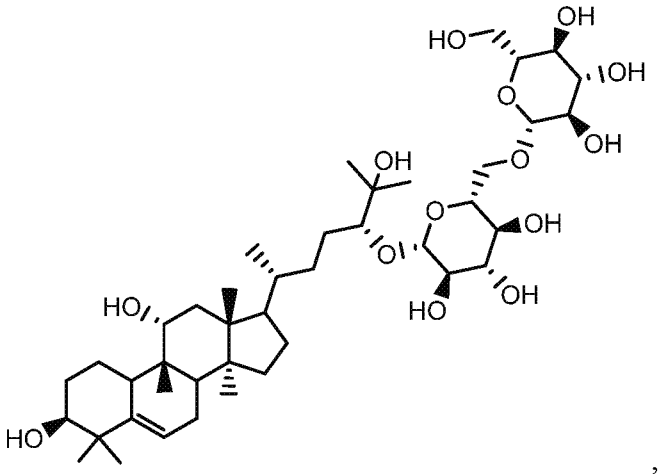
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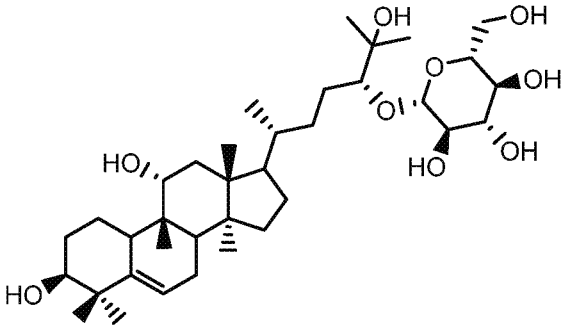
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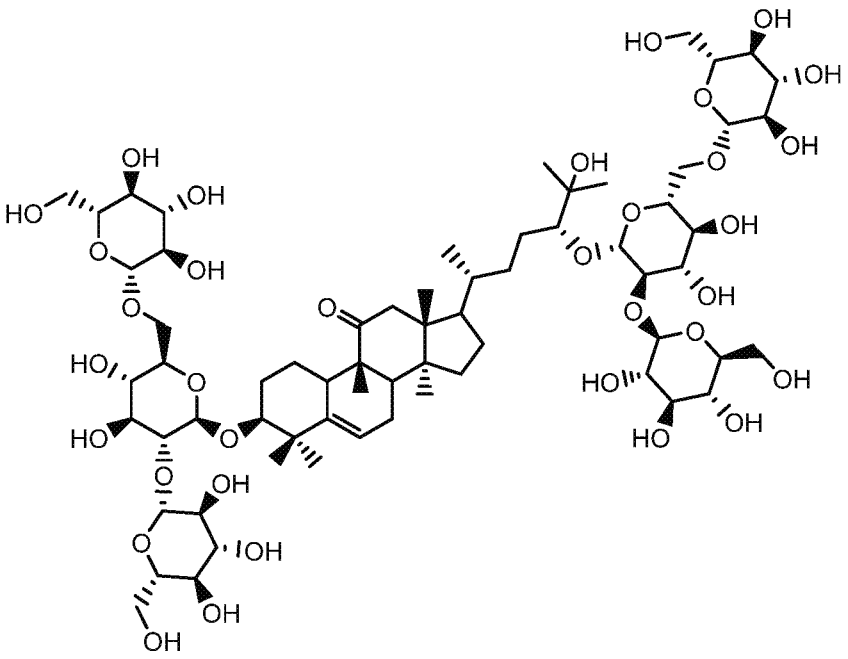
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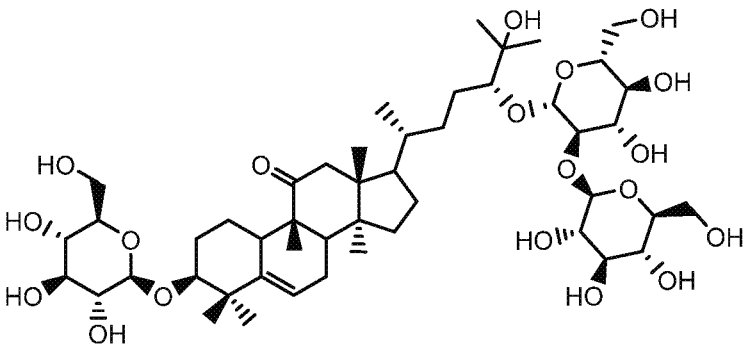
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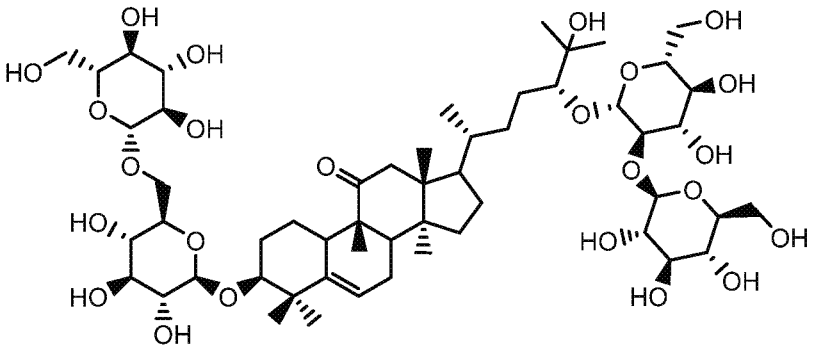
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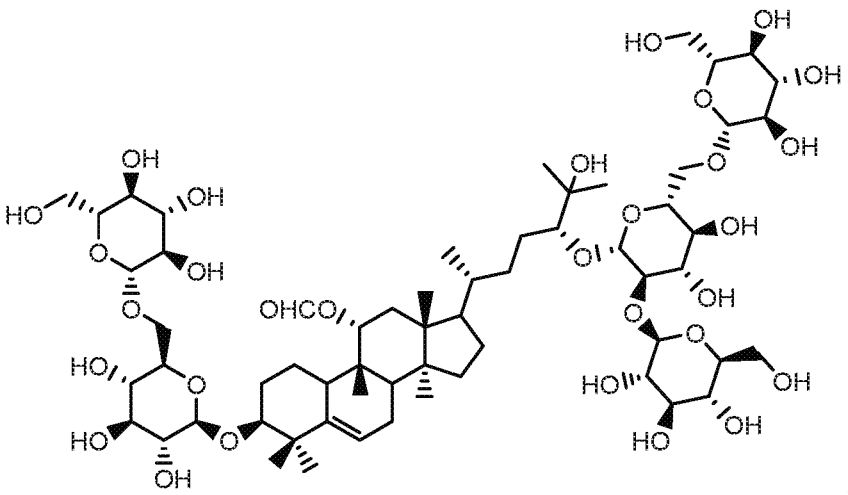
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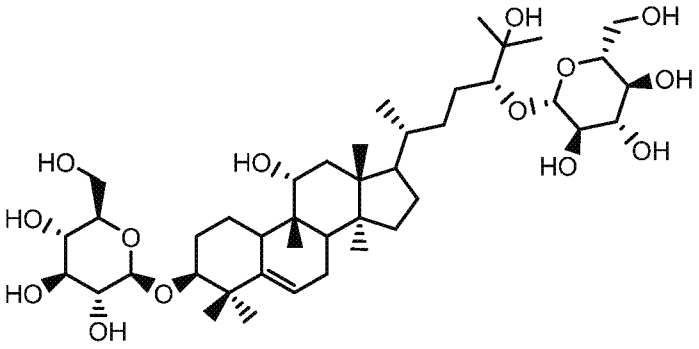
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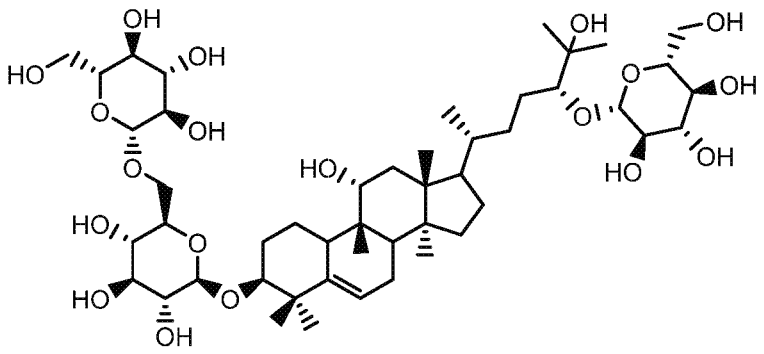
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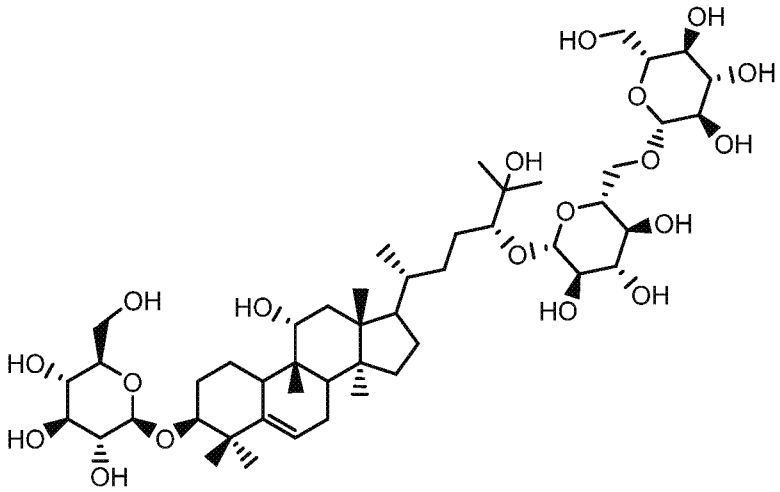
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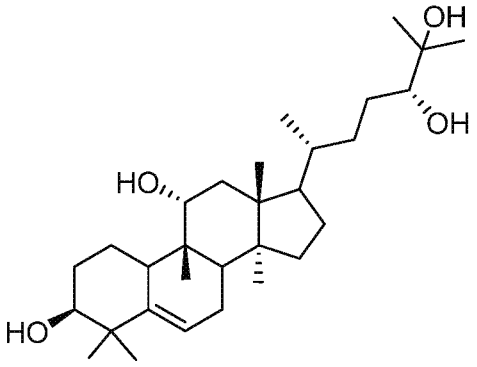


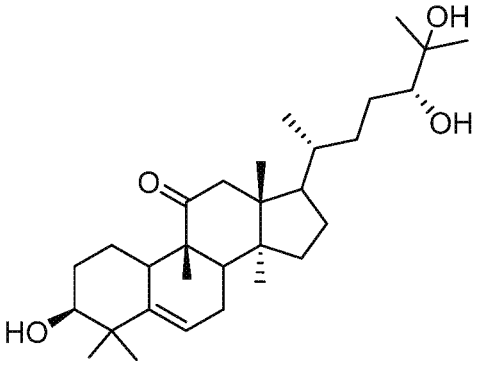
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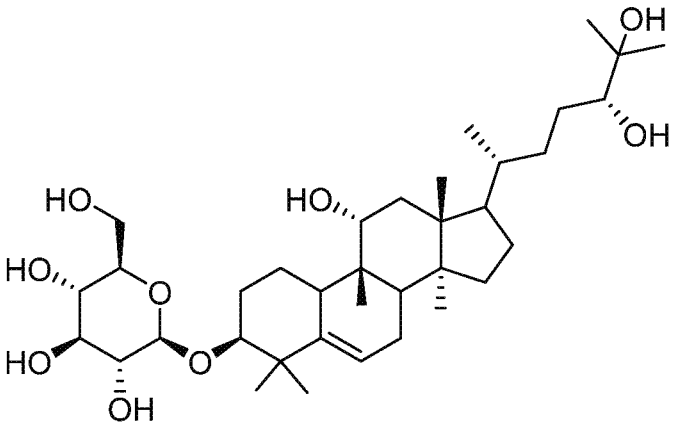


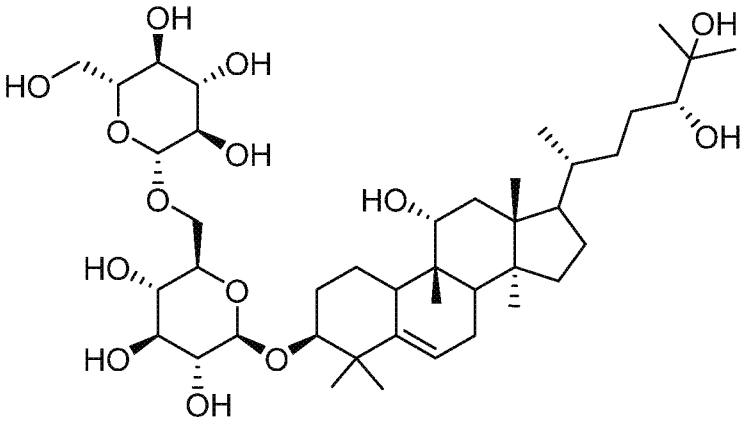
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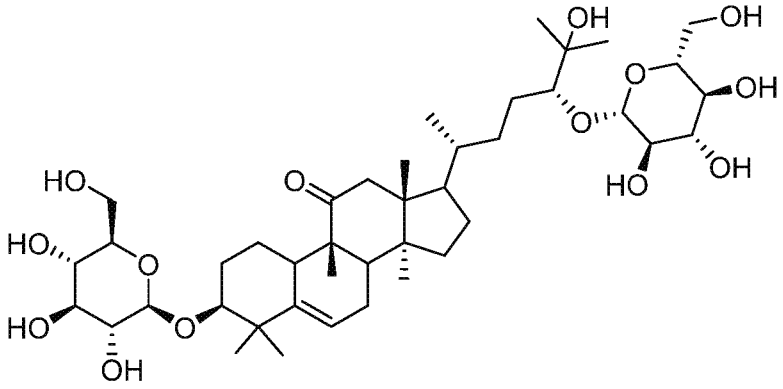
[0082] In some embodiments of the compounds, compositions, products, methods, or concentrates described above, formula (I) is not selected from:



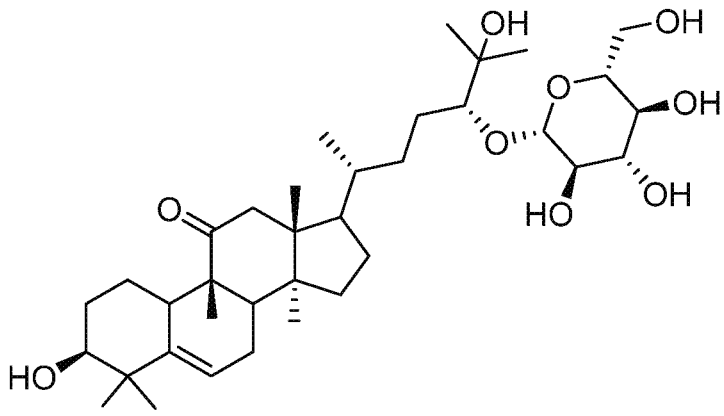




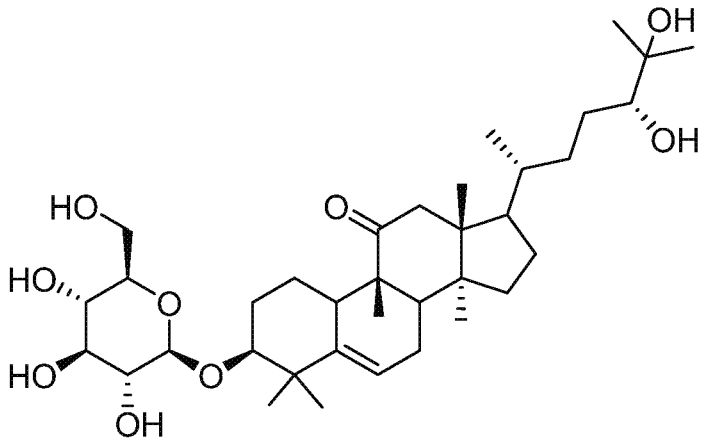




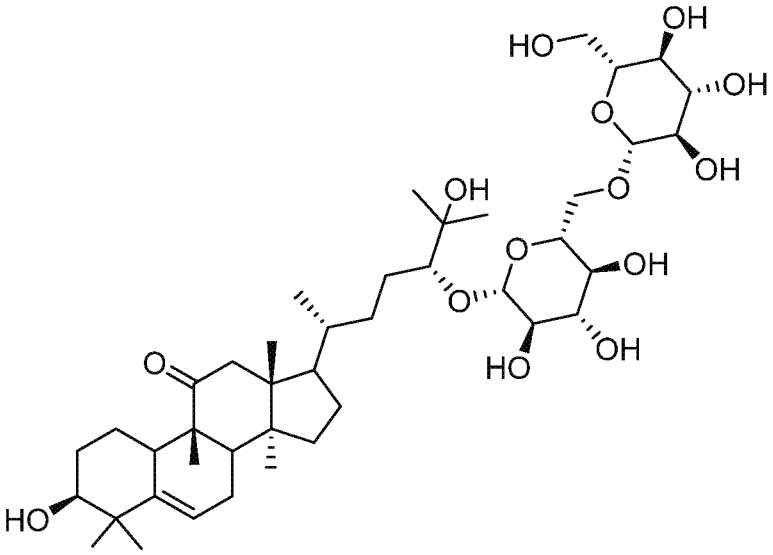
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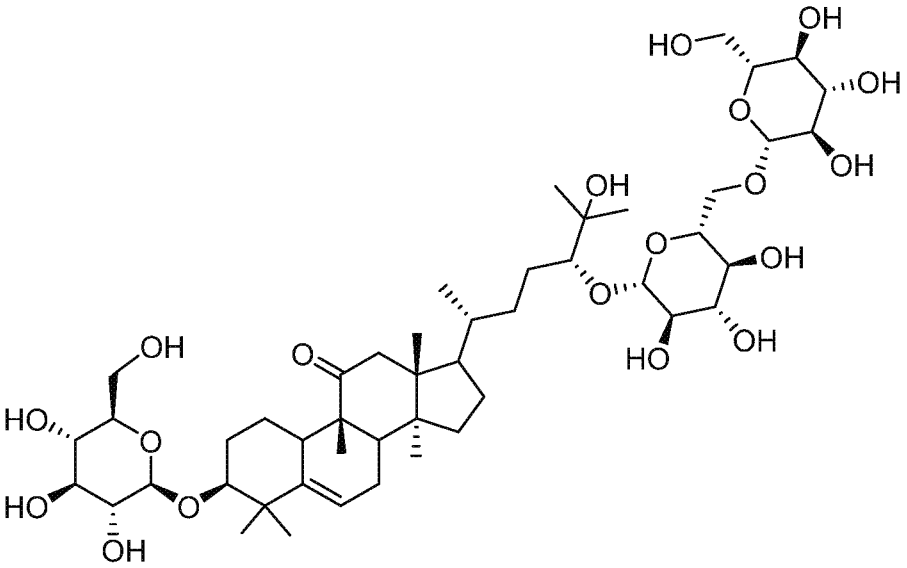
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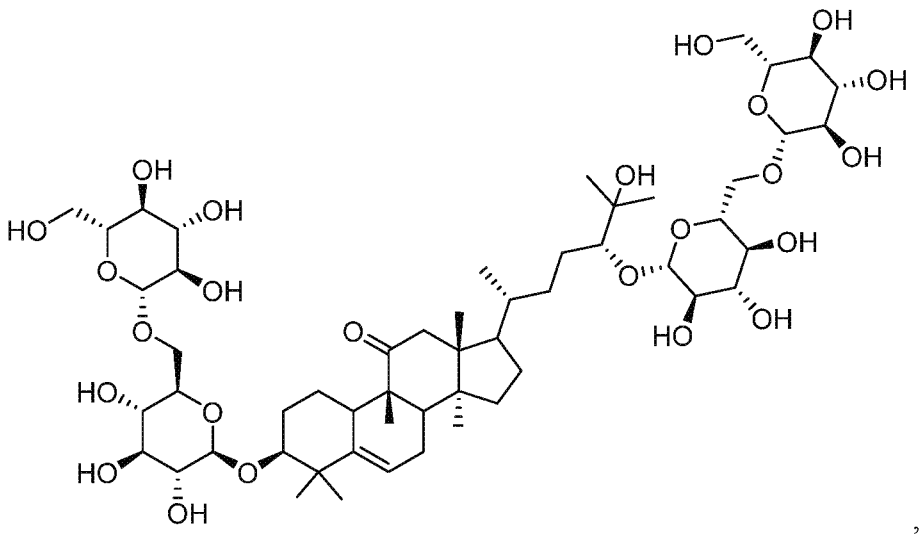
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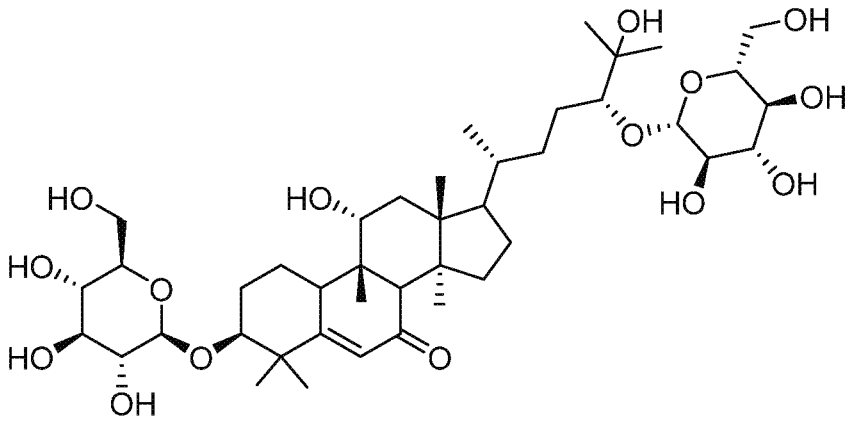
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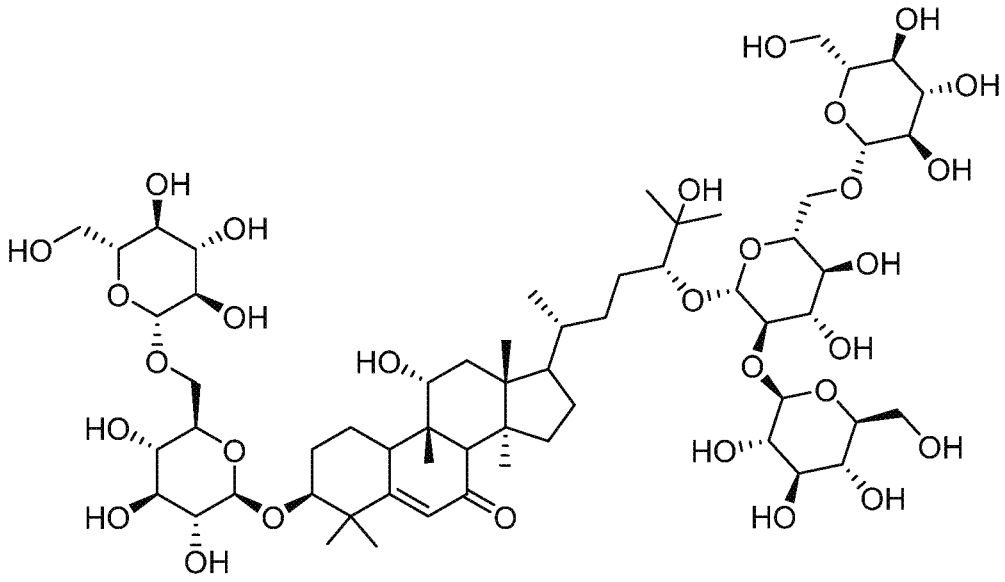
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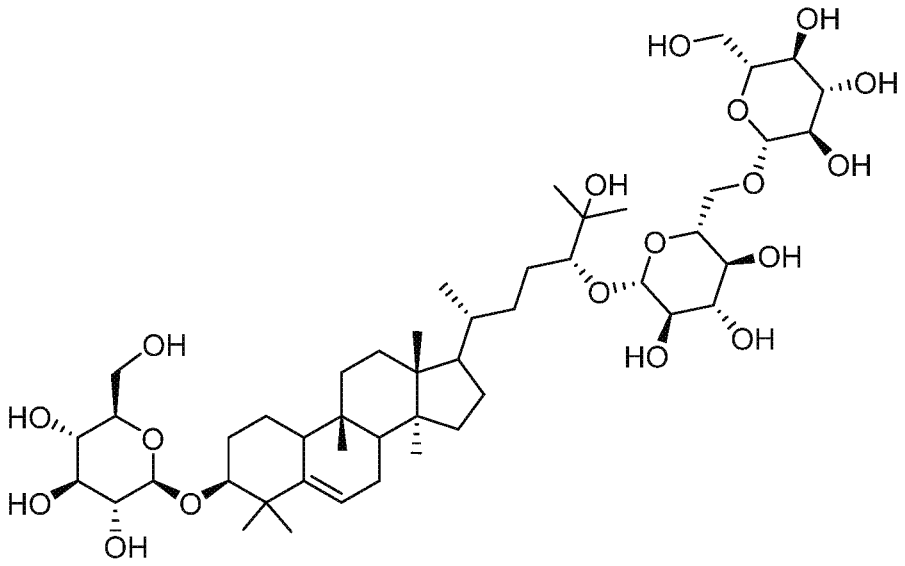
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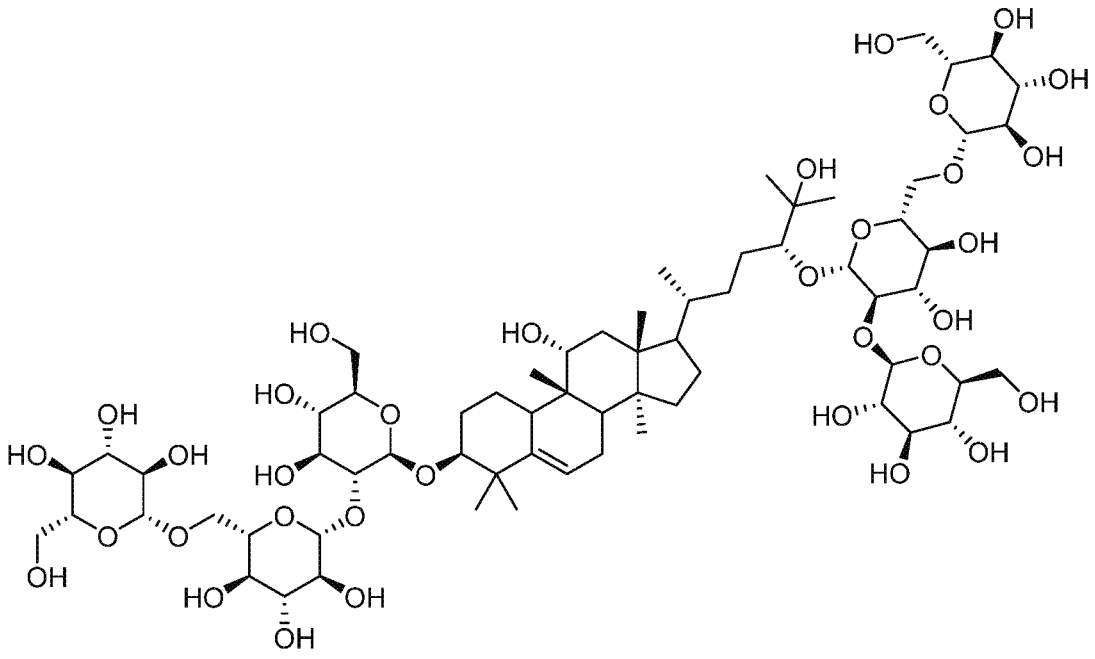
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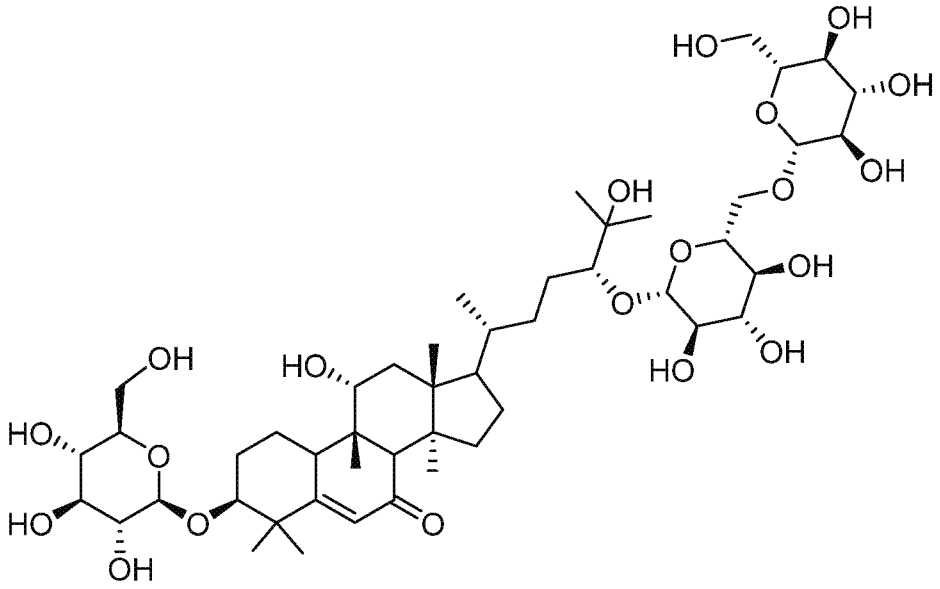
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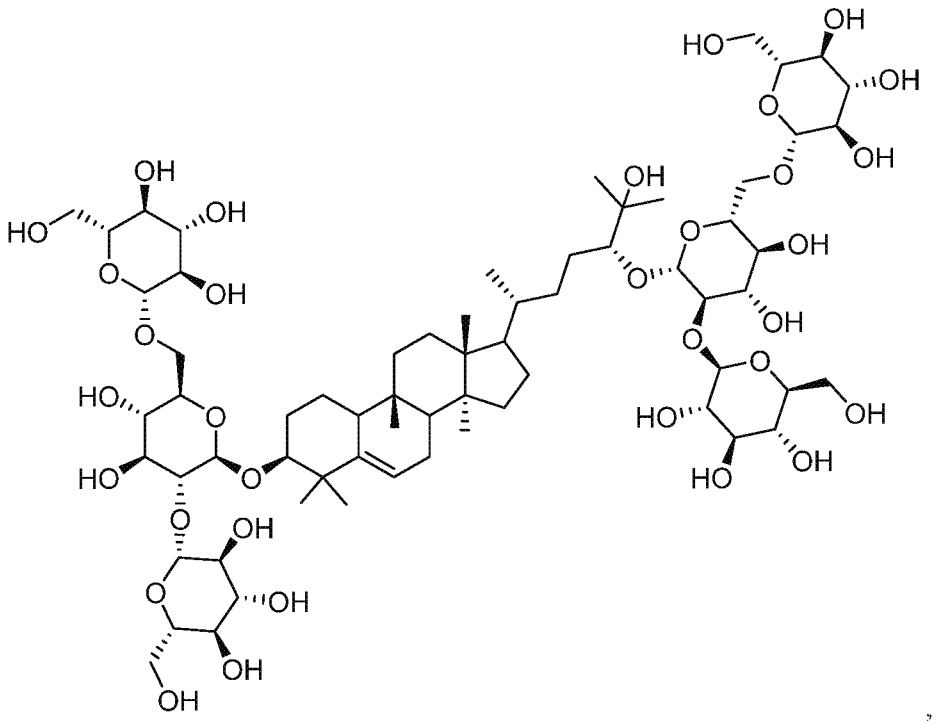


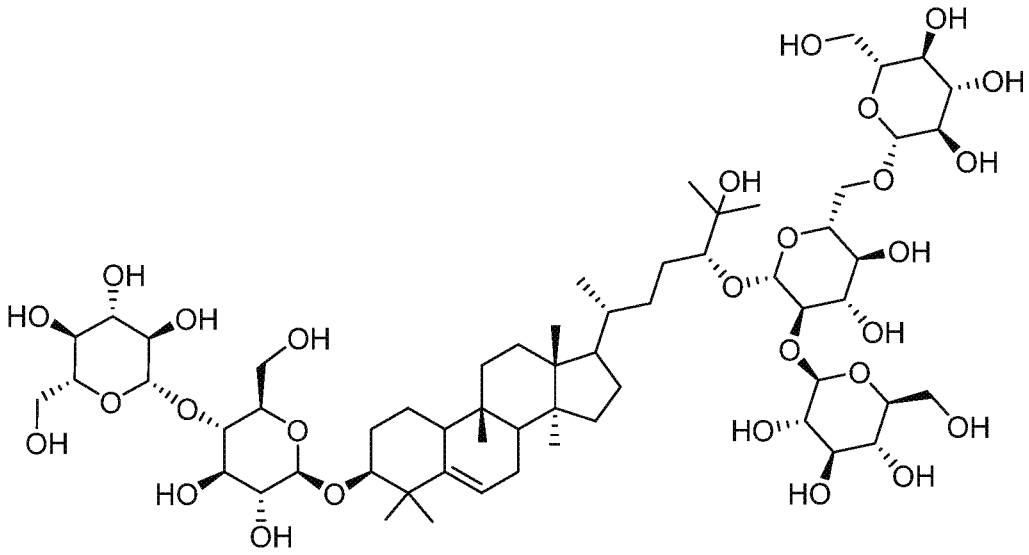
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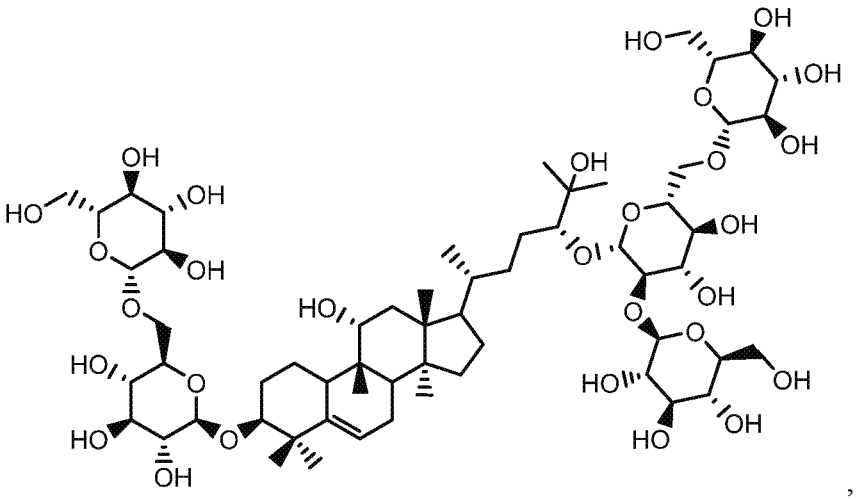
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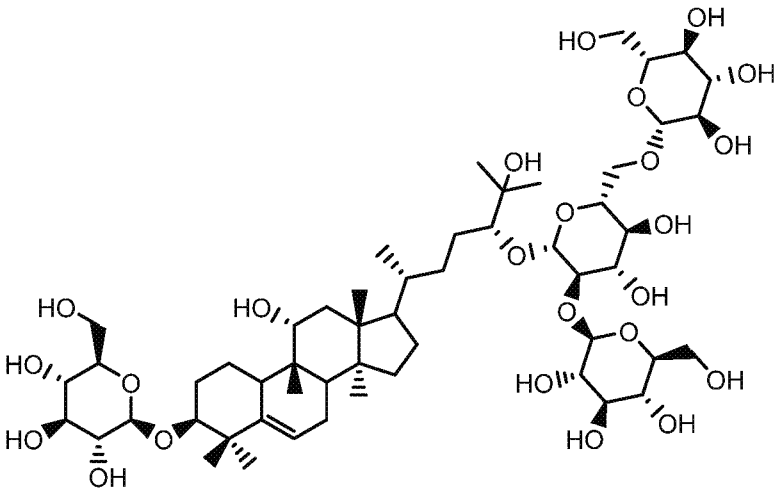




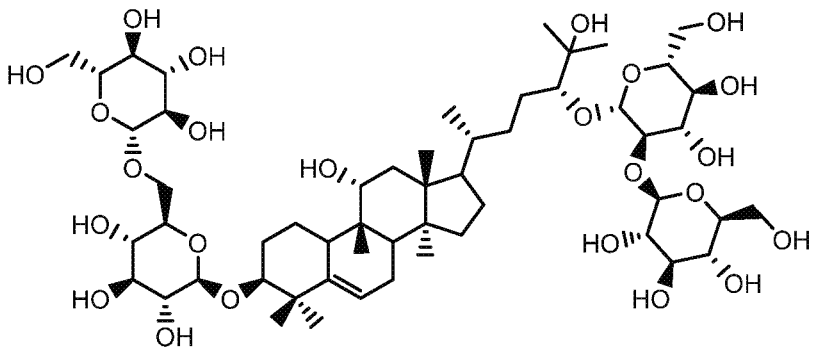
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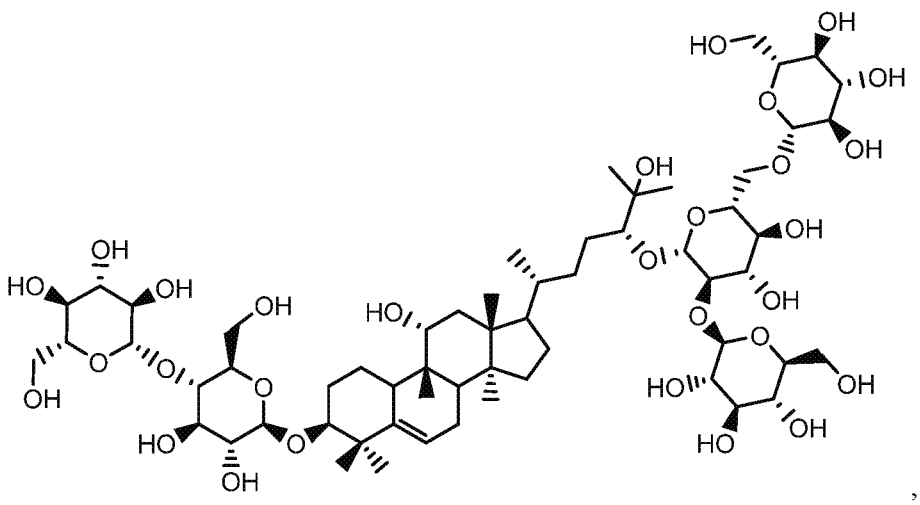
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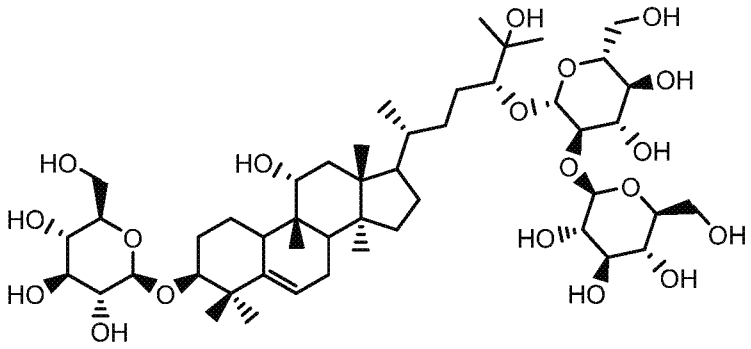
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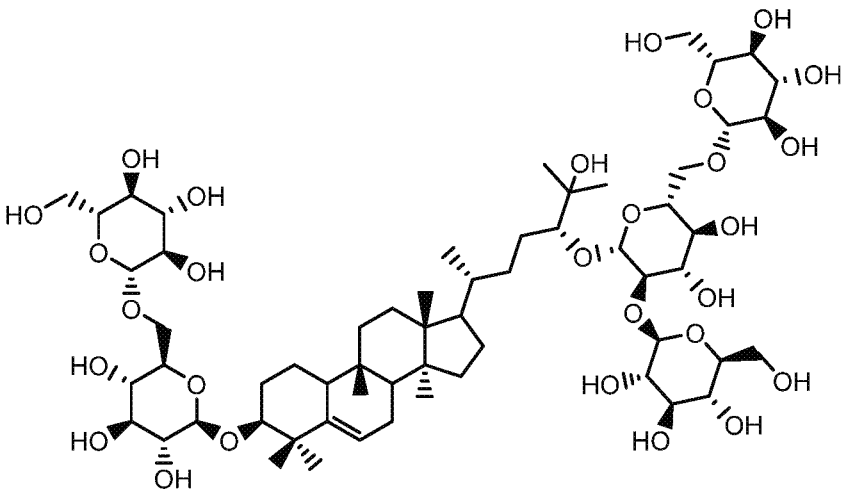
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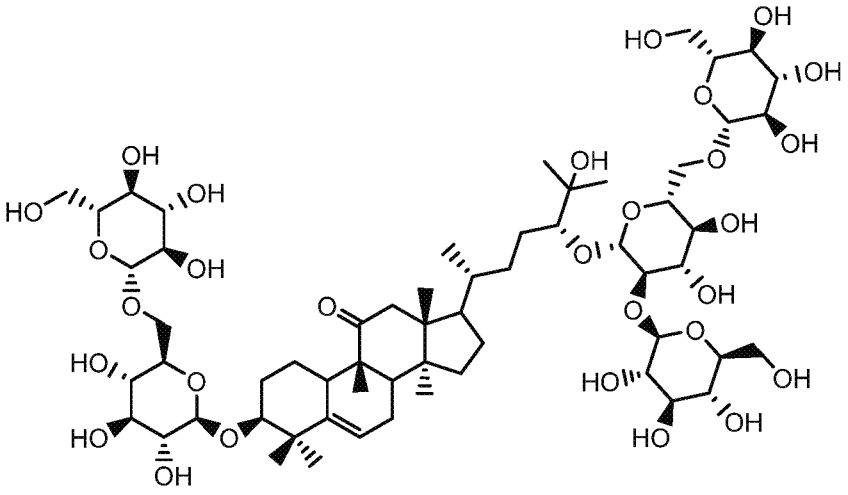
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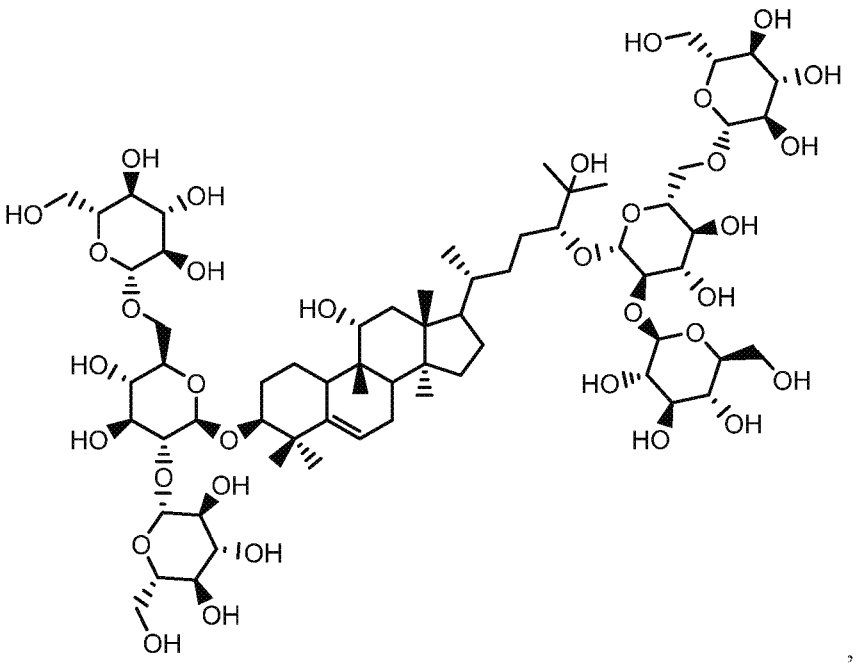
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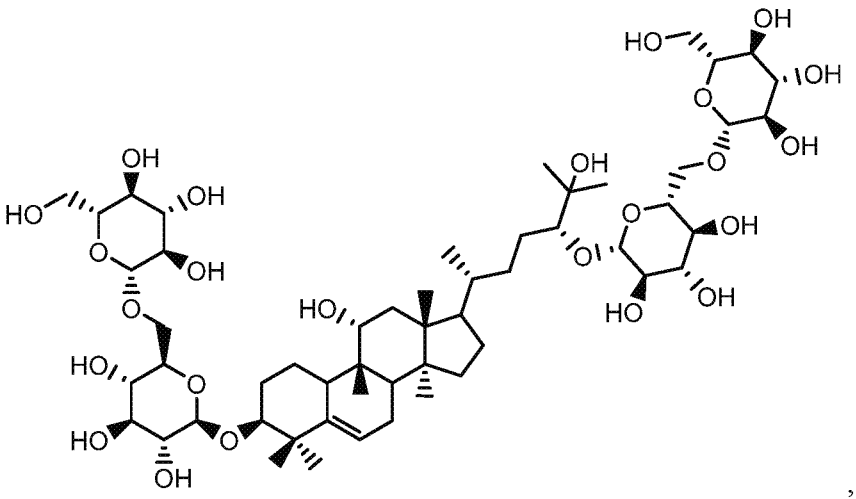
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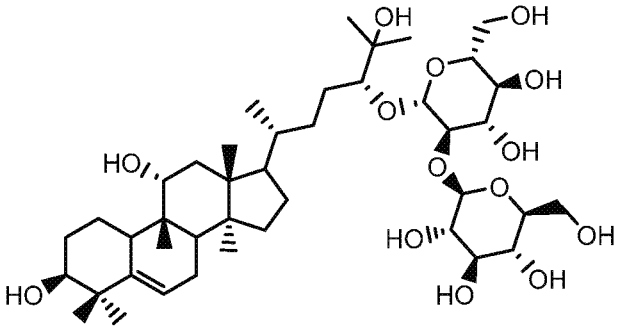
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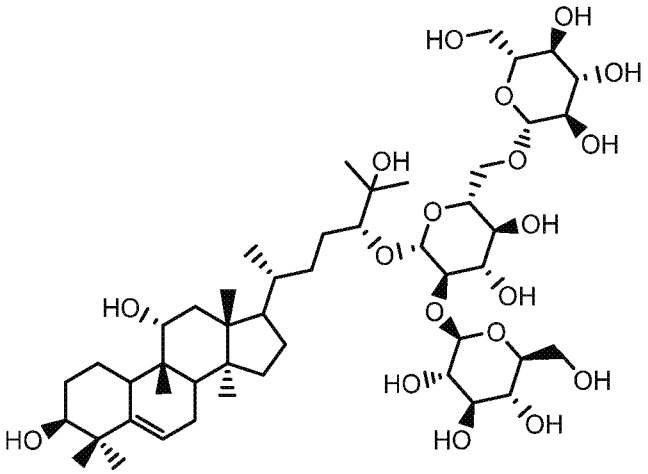
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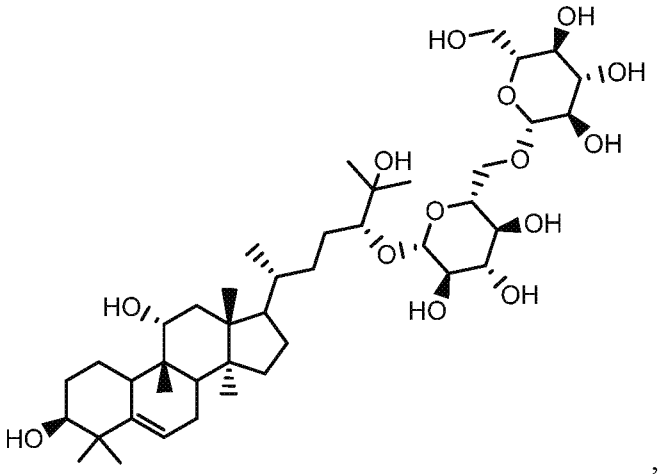
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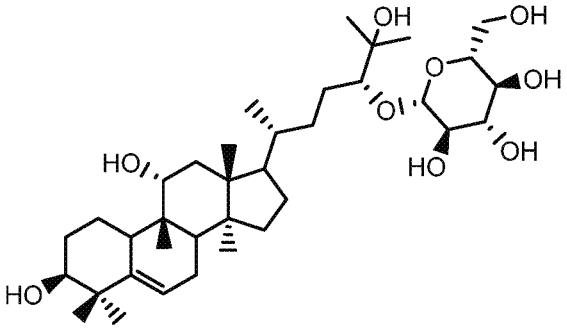
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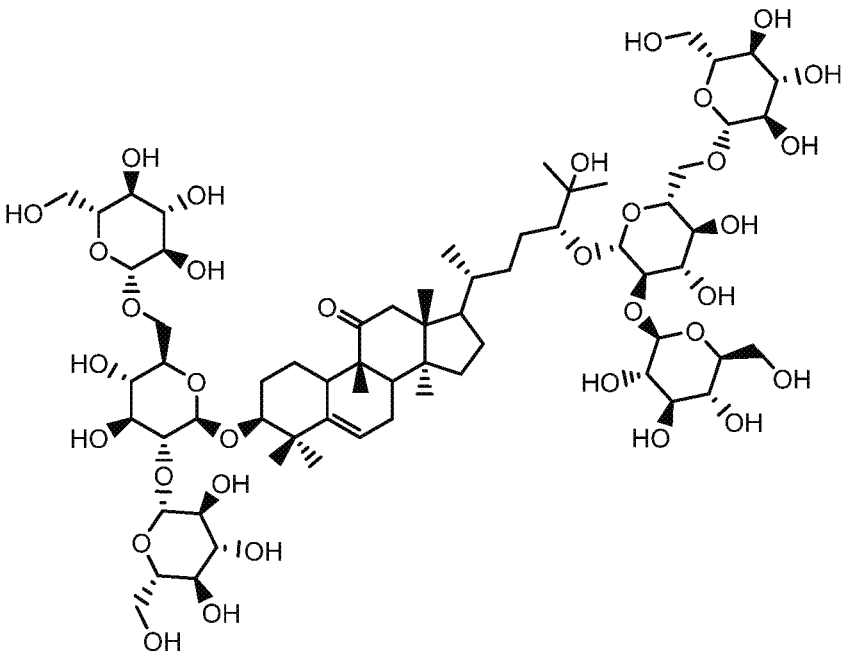
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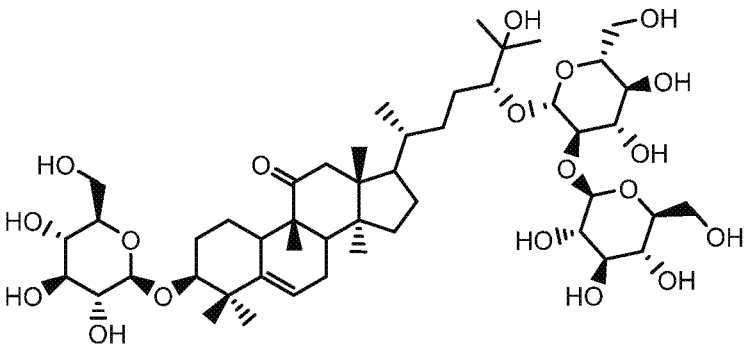
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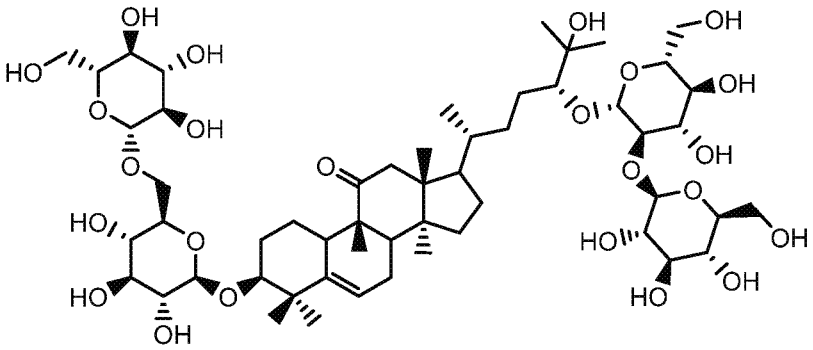
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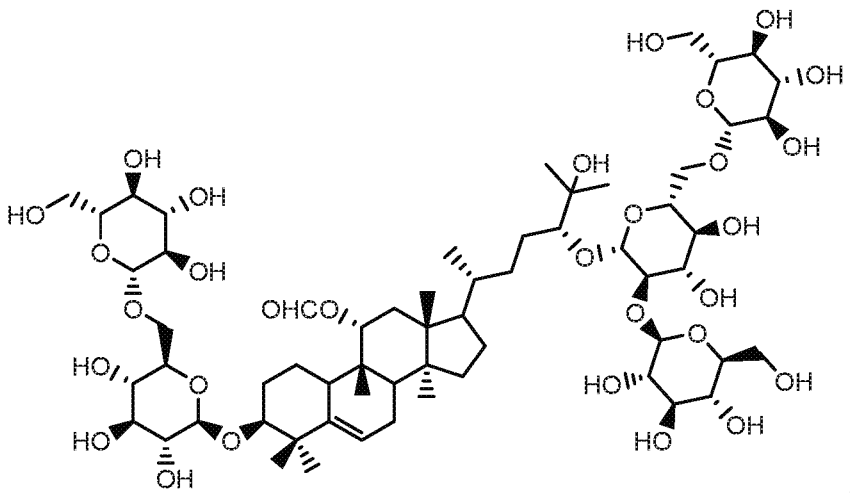
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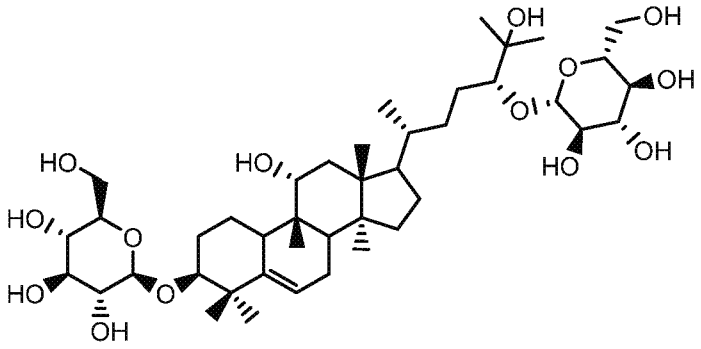
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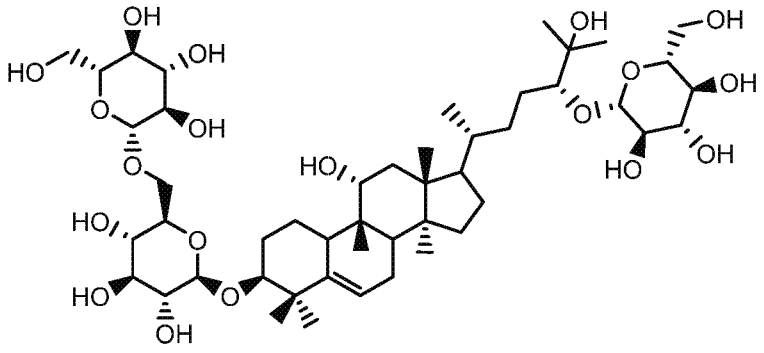
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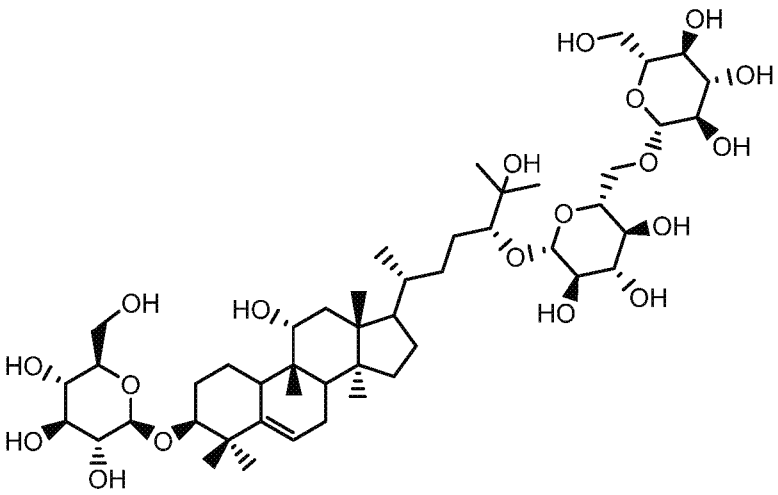
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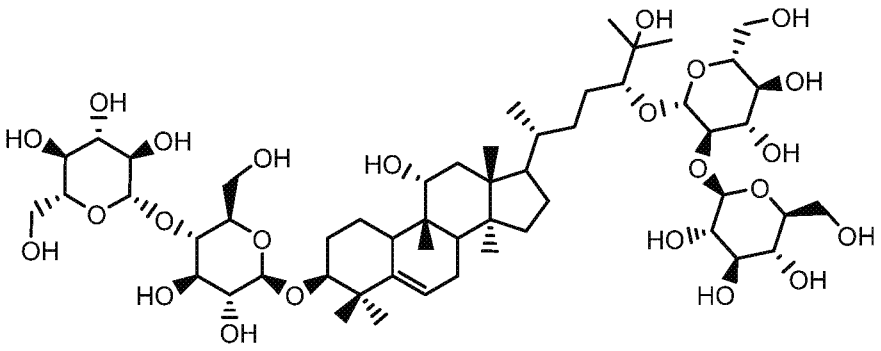
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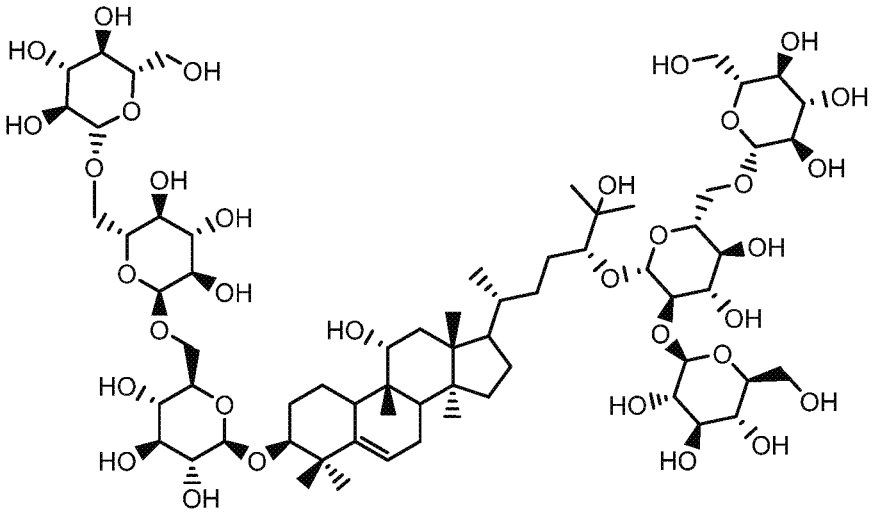
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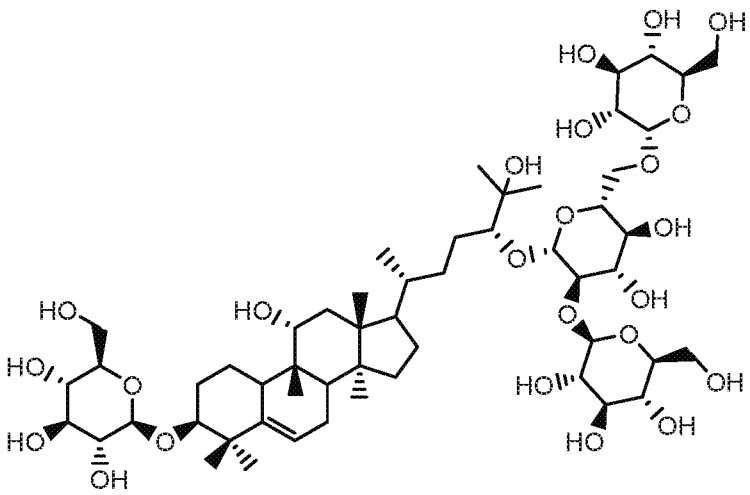
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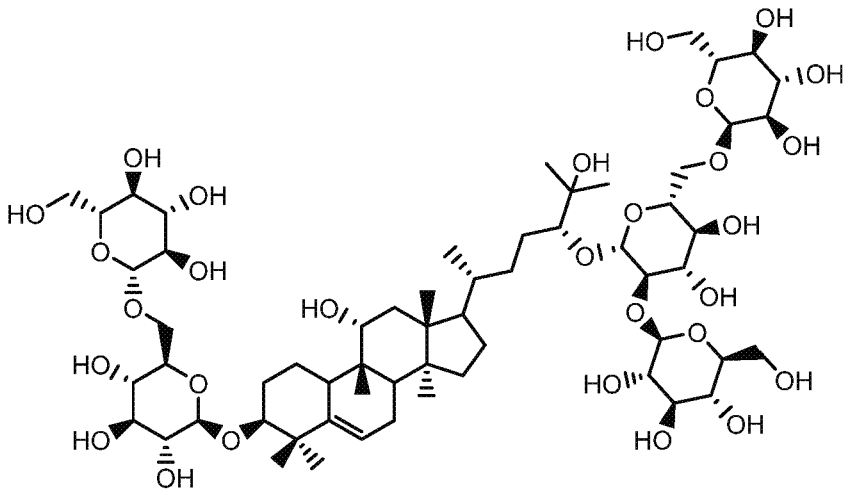
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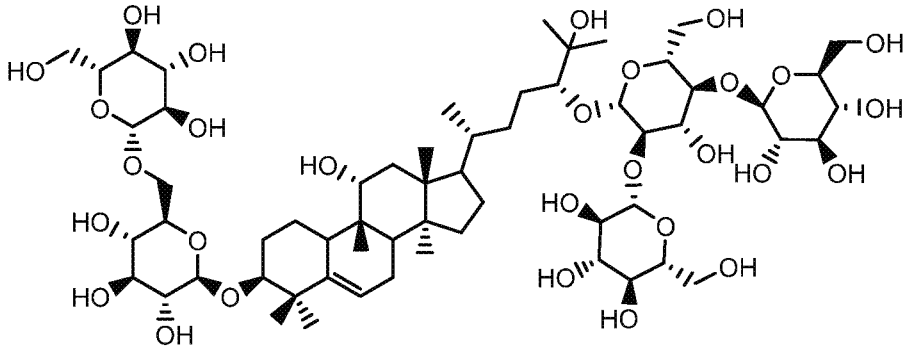
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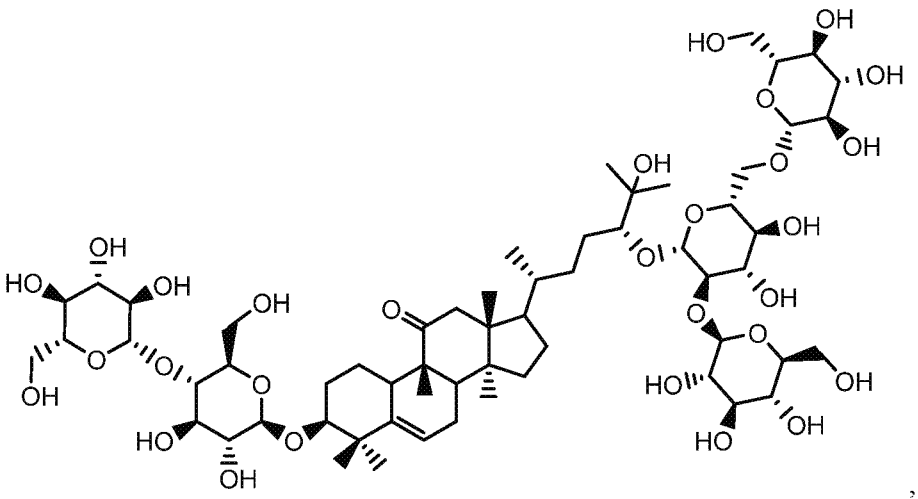
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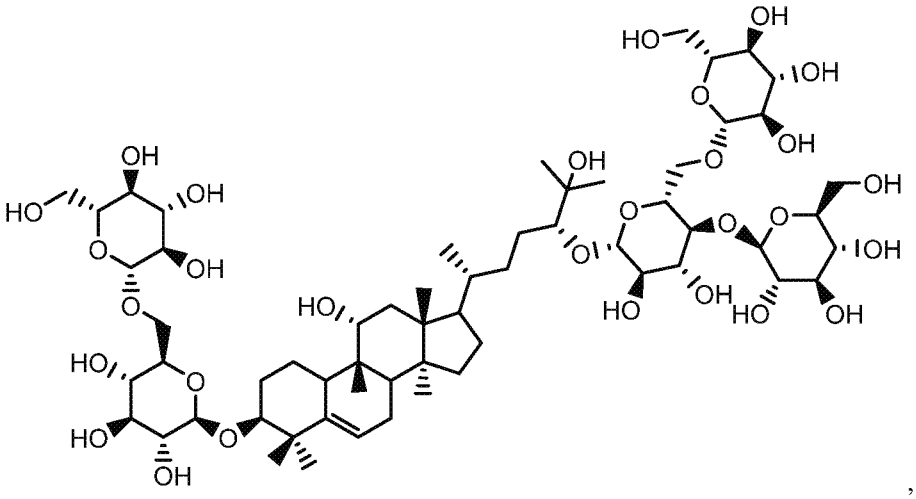
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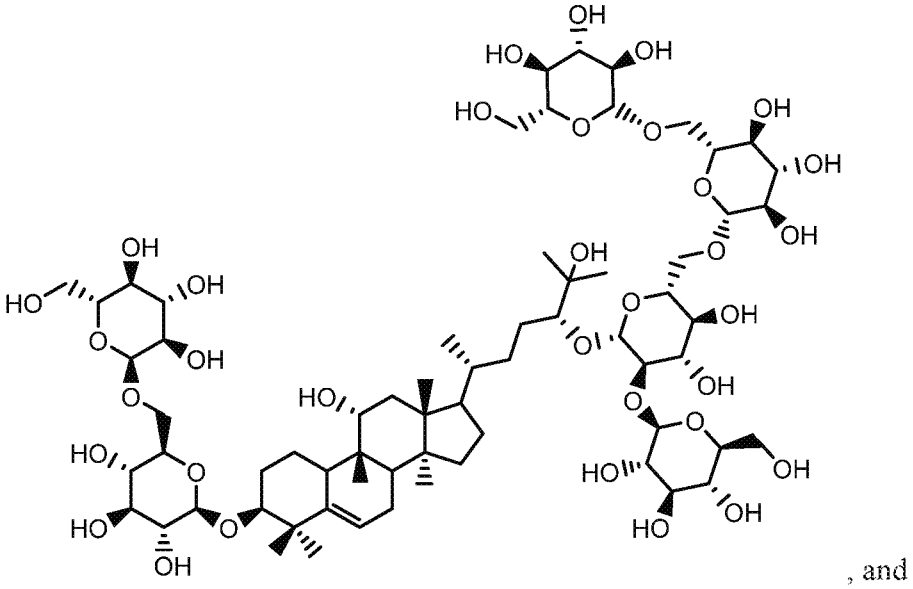
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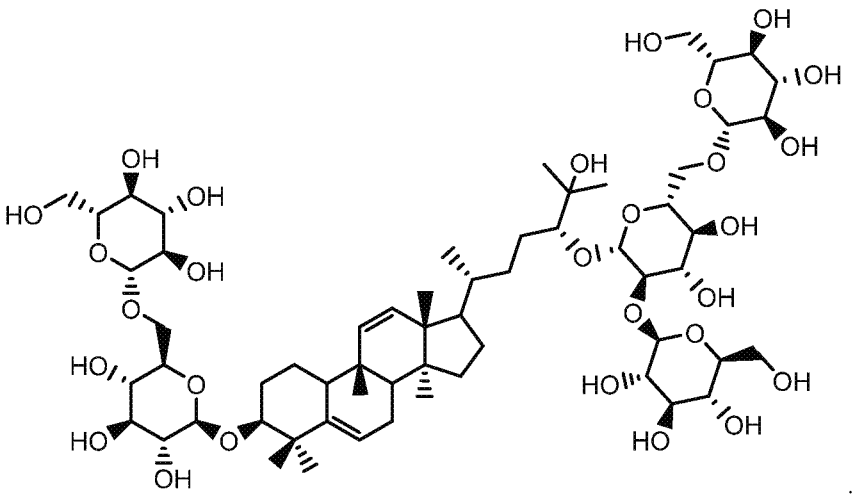
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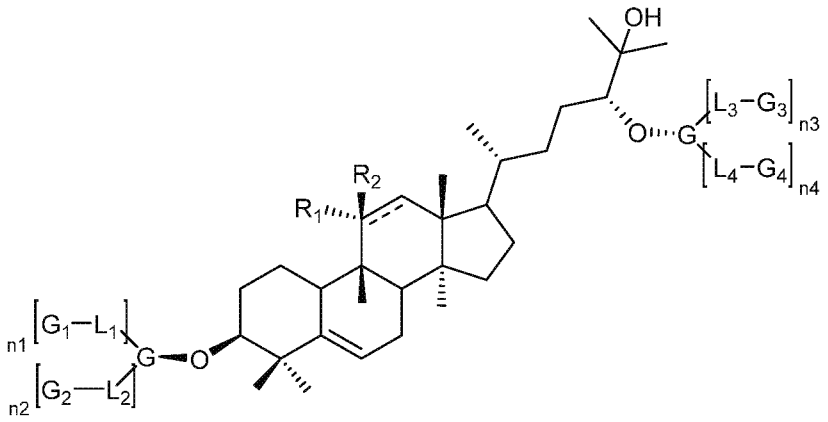
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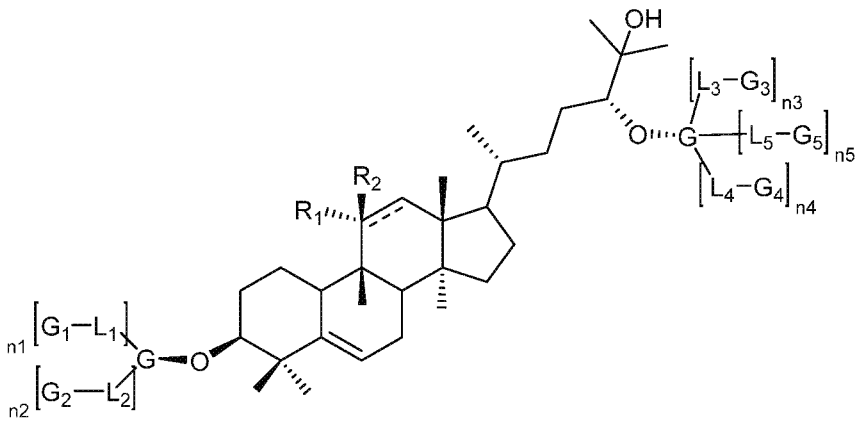


[0083] In some embodiments, the compound of Formula (I), composition, product, method, or concentrate comprises a compound having the structure of formula (Ia):



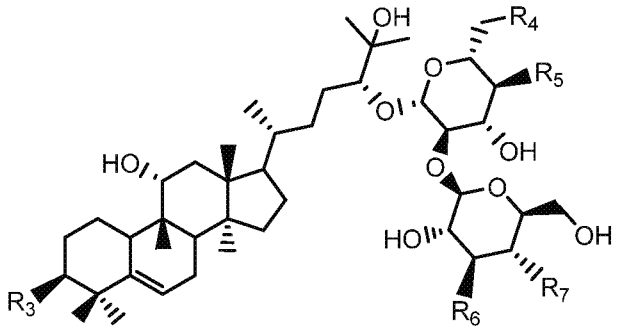
(Ia), or a salt thereof.

[0084] In some embodiments, the compound of Formula (I), composition, product, method, or concentrate comprises a compound having the structure of formula (Ib):



(**Ib**), or a salt thereof.

[0085] In some embodiments, the compound of Formula (I), composition, product, method, or concentrate comprises a compound having the structure of formula (Ic):



(**Ic**), or a salt thereof.

[0086] In some embodiments, R_4 is selected from -OH and $-(L_3\text{-}G_3)_{n3}$.

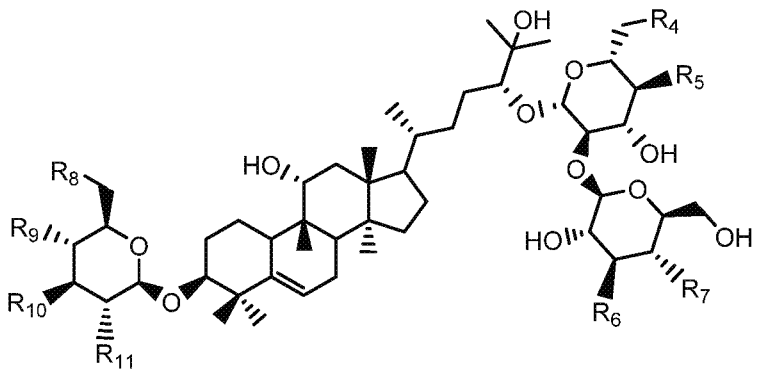
[0087] In some embodiments, R_5 is selected from –OH and $-(L_5\text{-}G_5)_{n5}$.

[0088] In some embodiments, R_6 and R_7 are independently selected from –OH and $-L_6\text{-}G_6$, provided that R_6 and R_7 are not both $-L_6\text{-}G_6$.

[0089] In some embodiments, G_6 is a furanose or pyranose moiety.

[0090] In some embodiments, L_6 is a glycosidic bond.

[0091] In some embodiments, the compound of Formula (I), composition, product, method, or concentrate comprises a compound having the structure of formula (Id):

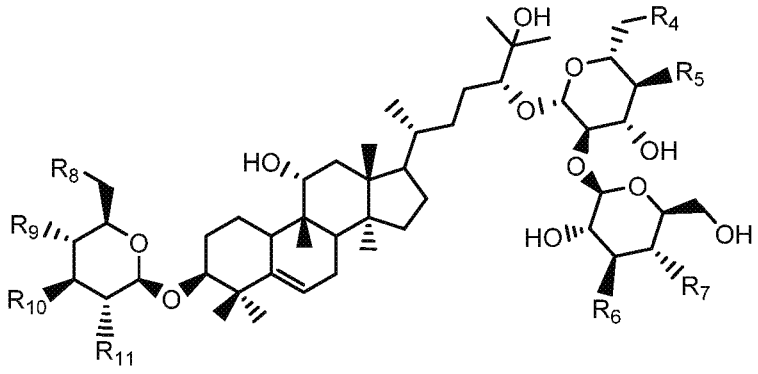


(**Id**), or a salt thereof.

[0092] In some embodiments, R_8 and R_9 are independently selected from –OH and –L_1-G_1, provided that R_8 and R_9 are not both –L_1-G_1.

[0093] In some embodiments, R_{10} and R_{11} are independently selected from –OH and –L_2-G_2, provided that R_{10} and R_{11} are not both –L_2-G_2.

[0094] In some embodiments, the compound of Formula (I), composition, product, method, or concentrate comprises a compound having the structure of formula (Id):



(**Id**), or a salt thereof.

[0095] In some embodiments, R_8 and R_{10} are independently selected from –OH and –L_1-G_1, provided that R_8 and R_9 are not both –L_1-G_1; and

[0096] In some embodiments, R_9 and R_{11} are independently selected from –OH and –L_2-G_2, provided that R_{10} and R_{11} are not both –L_2-G_2.

[0097] In some embodiments, the compound, composition, product, method, or concentrate, each of R_8, R_9, R_{10}, and R_{11} are –OH. In some embodiments, the compound, composition, product, method, or concentrate, R_8 is –L_1-G_1 and each of R_9, R_{10}, and R_{11} are –OH. In some embodiments, the compound, composition, product, method, or concentrate, R_9 is L_1-G_1 and each of R_8, R_{10}, and R_{11} are –OH.

[0098] In some embodiments, the compound, composition, product, method, or concentrate, R_4 is –OH. In some embodiments, the compound, composition, product, method, or concentrate, R_4 is $–L_3\text{-}G_3$. In some embodiments, the compound, composition, product, method, or concentrate, R_5 is –OH. In some embodiments, the compound, composition, product, method, or concentrate, R_5 is $–L_5\text{-}G_5$. In some embodiments, the compound, composition, product, method, or concentrate, R_6 and R_7 are –OH. In some embodiments, the compound, composition, product, method, or concentrate, R_6 is $–L_6\text{-}G_6$ and R_7 is -OH. In some embodiments, the compound, composition, product, method, or concentrate, R_6 is –OH and R_7 is $–L_6\text{-}G_6$.

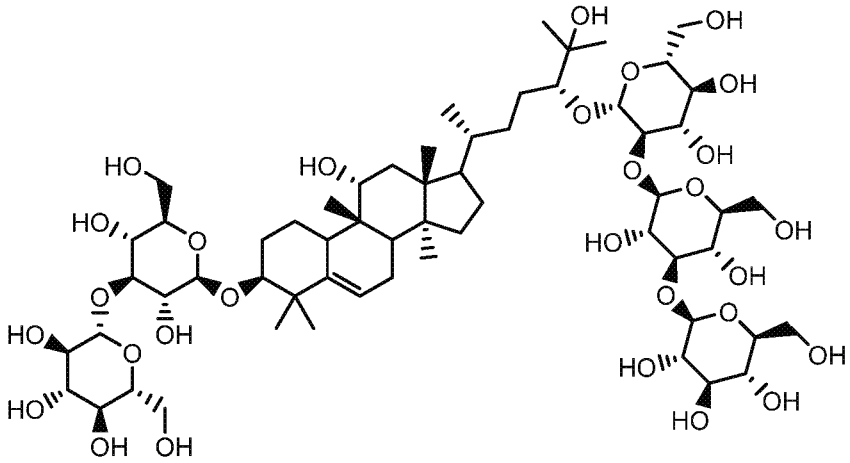
[0099] In some embodiments, the compound, composition, product, method, or concentrate, each G, G_1, G_2, G_3, G_4, and G_5 is independently selected from the group consisting of D-Glucopyranose, L-Glucopyranose, D-Fructopyranose, D-Mannopyranose, L-Mannopyranose, D-Galactopyranose, L-Galactopyranose, D-Tagatopyranose, L-Sorbopyranose, D-Xylopyranose, D-Ribopyranose, D-Arabopyranose, L-Arabopyranose, L-Xylulopyranose, D-Ribulopyranose, 6-deoxy-D-Glucopyranose, 6-deoxy-L-Glucopyranose, 6-deoxy-D-Galactopyranose, 6-deoxy-L-Galactopyranose, 6-deoxy-L-Mannopyranose, 2-deoxy-D-Ribopyranose, D-Hamamelopyranose, D-Glucofuranose, L-Glucofuranose, D-Fructofuranose, D-Mannofuranose, L-Mannofuranose, D-Galactofuranose, L-Galactofuranose, D-Tagatofuranose, L-Sorbofuranose, D-Xylofuranose, D-Ribofuranose, D-Arabofuranose, L-Arabofuranose, L-Xylulofuranose, D-Ribulofuranose, D-Threofuranose, D-Erythrofuranose, 6-deoxy-D-Glucofuranose, 6-deoxy-L-Glucofuranose, 6-deoxy-D-Galactofuranose, 6-deoxy-L-Galactofuranose, 6-deoxy-L-Mannofuranose, 2-deoxy-D-Ribofuranose, D-Apiofuranose, and D-Hamamelofuranose.

[0100] In some embodiments, the compound, composition, product, method, or concentrate, each n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 2. In some embodiments, the compound, composition, product, method, or concentrate, n^4 is 1, 2, or 3. In some embodiments, the compound, composition, product, method, or concentrate, n^3 is 0.

[0101] In some embodiments, the compound, composition, product, method, or concentrate, each L_1, L_2, L_3 L_4, and L_5 are β glycosidic bonds. In some embodiments, the compound, composition, product, method, or concentrate, each L_1, L_2, L_3 L_4, and L_5 are α

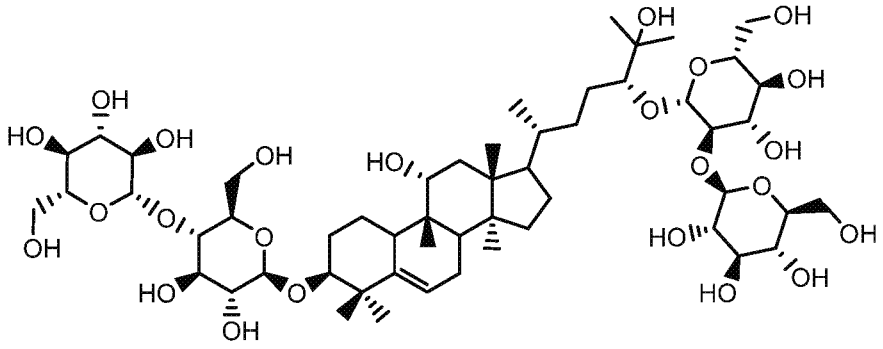
glycosidic bonds. In some embodiments, the compound, composition, product, method, or concentrate, at least one of L_1, L_2, L_3, L_4, and L_5 is an α glycosidic bond.

[0102] In some embodiments of the compound, composition, product, method, or concentrate described above, the compound has the structure:



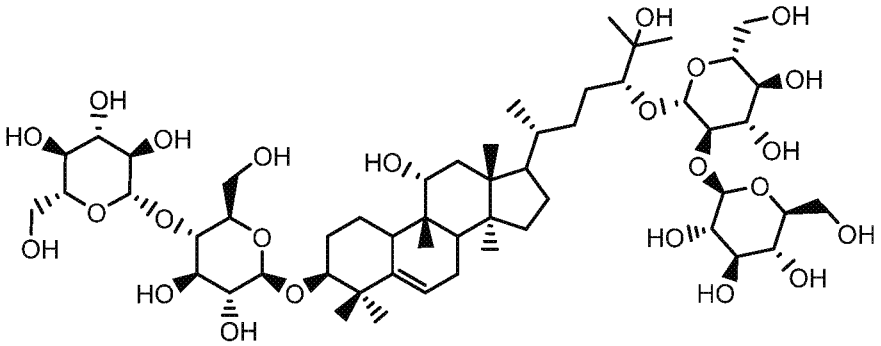
, or a salt thereof.

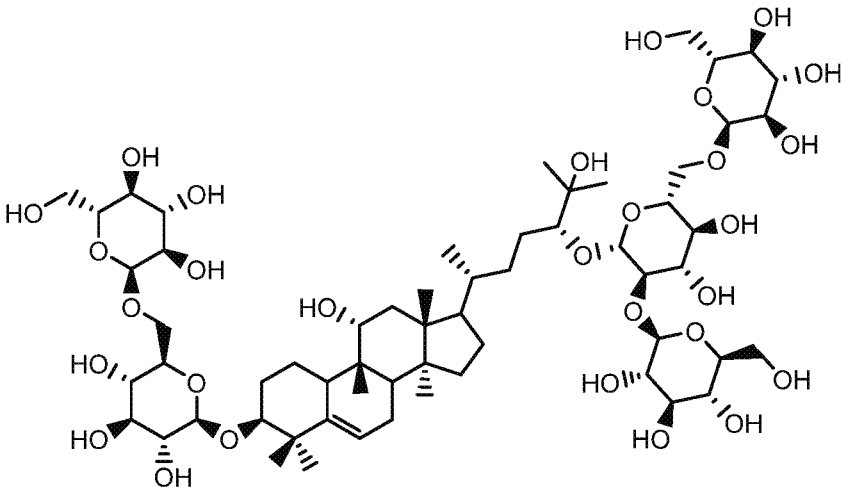
[0103] In some embodiments of the compound, composition, product, method, or concentrate described above, the compound has the structure:

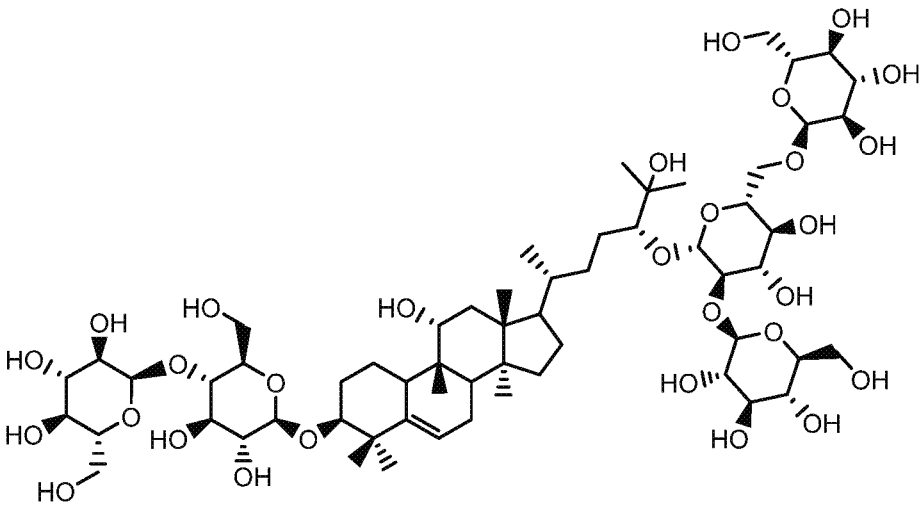


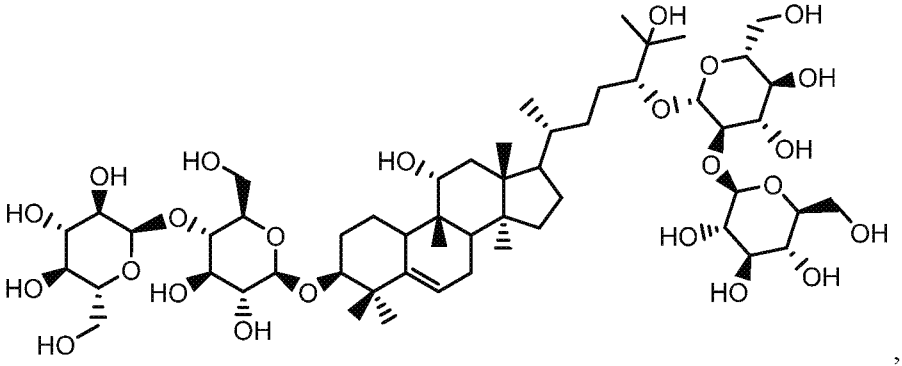
, or a salt thereof.

[0104] In some embodiments of the compound, composition, product, method, or concentrate described above, the compound has a structure selected from:

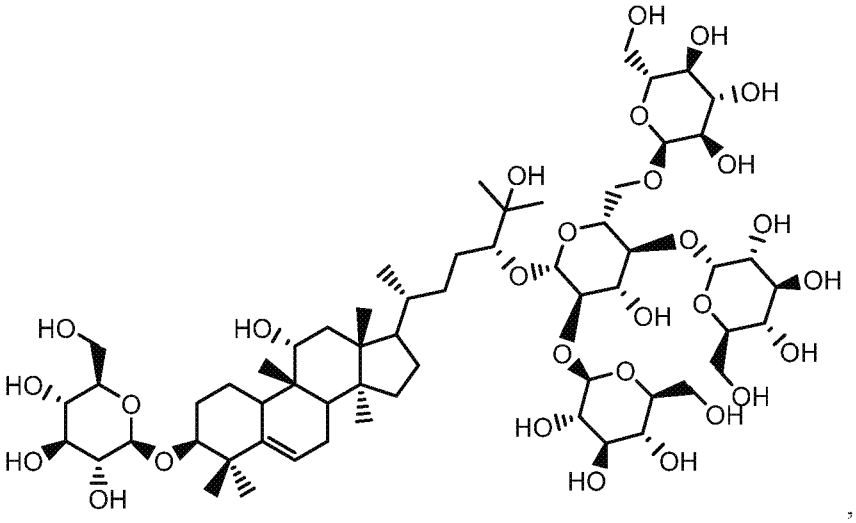




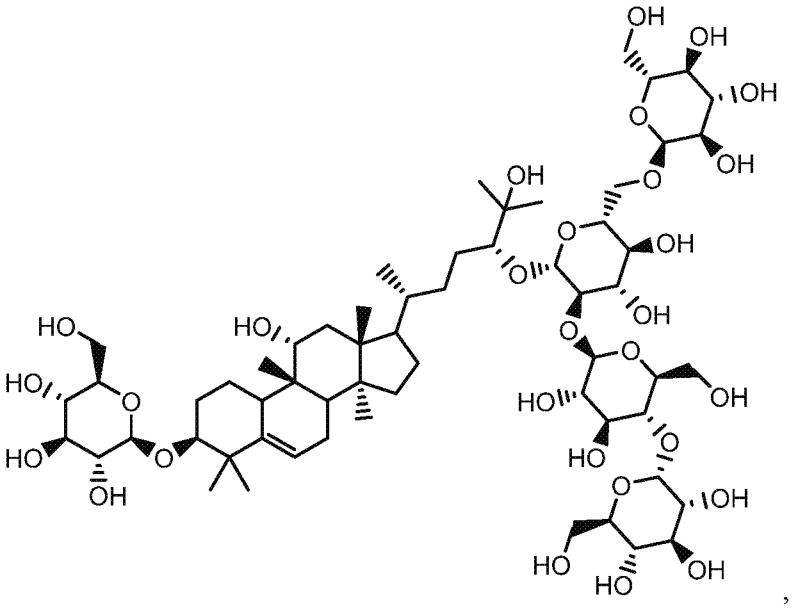




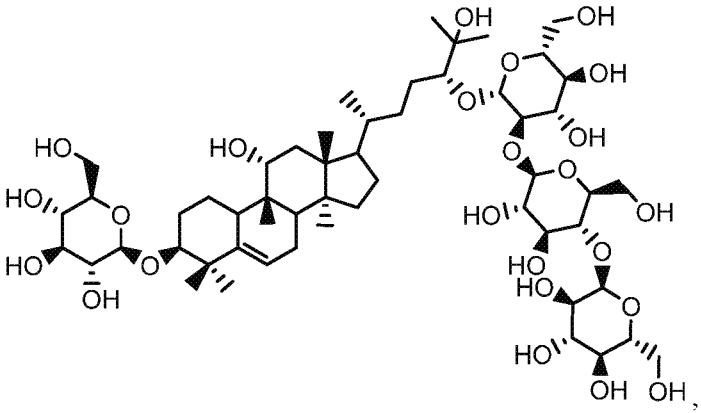
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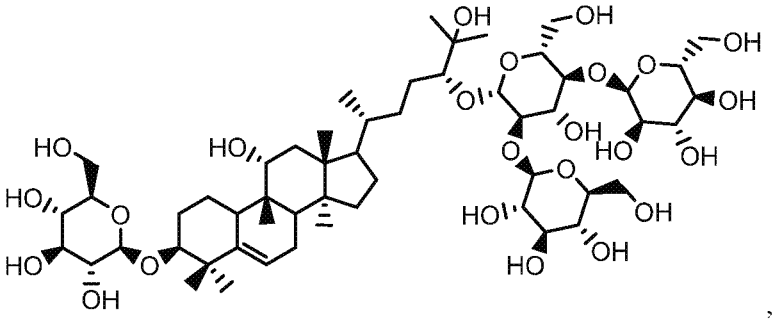


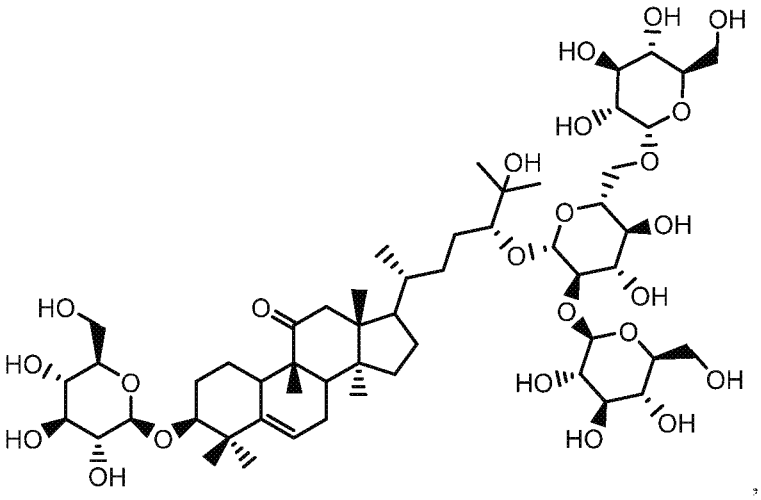
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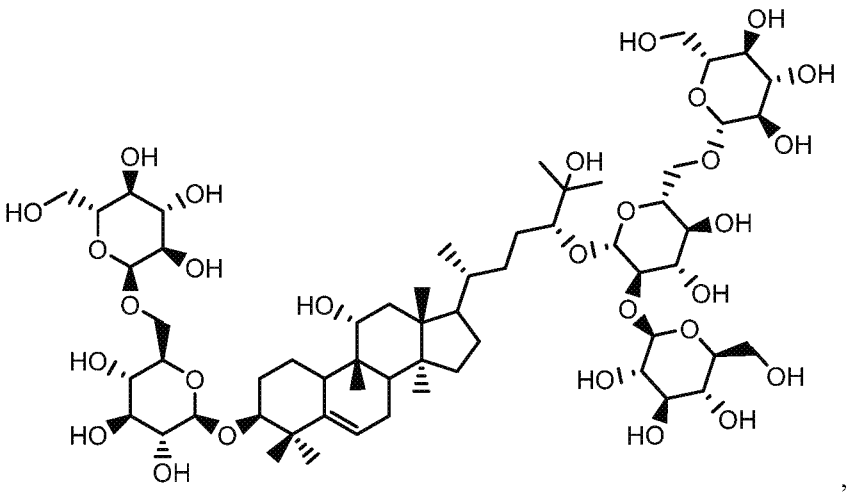


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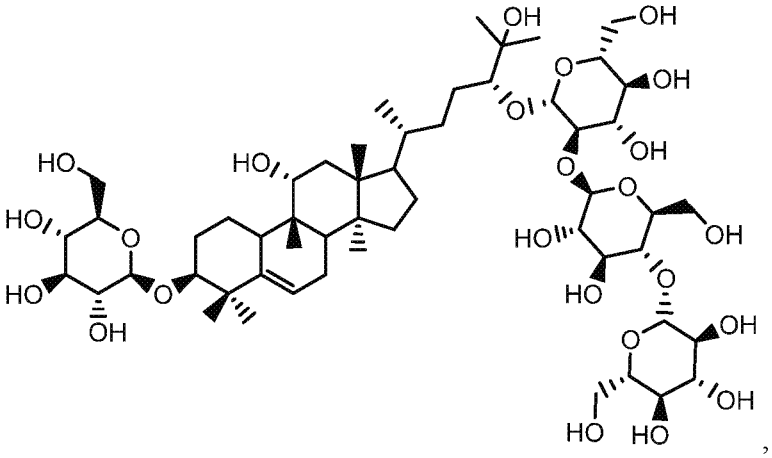




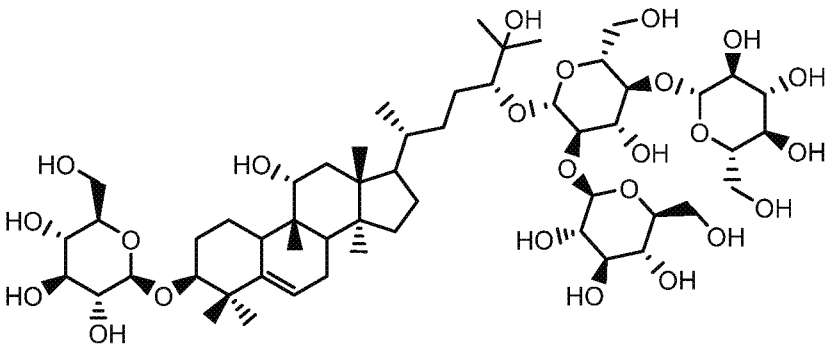




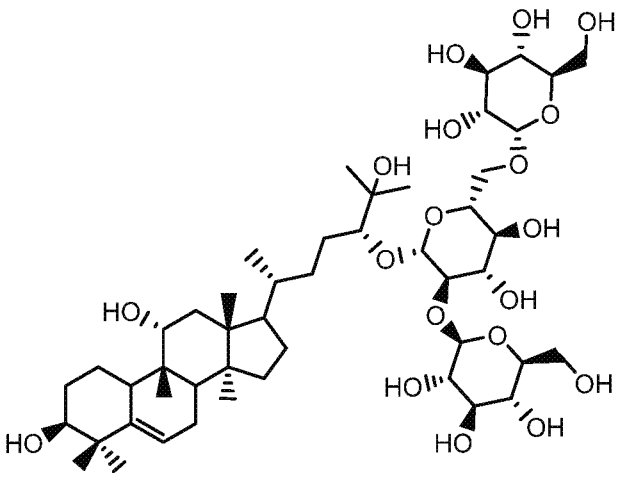
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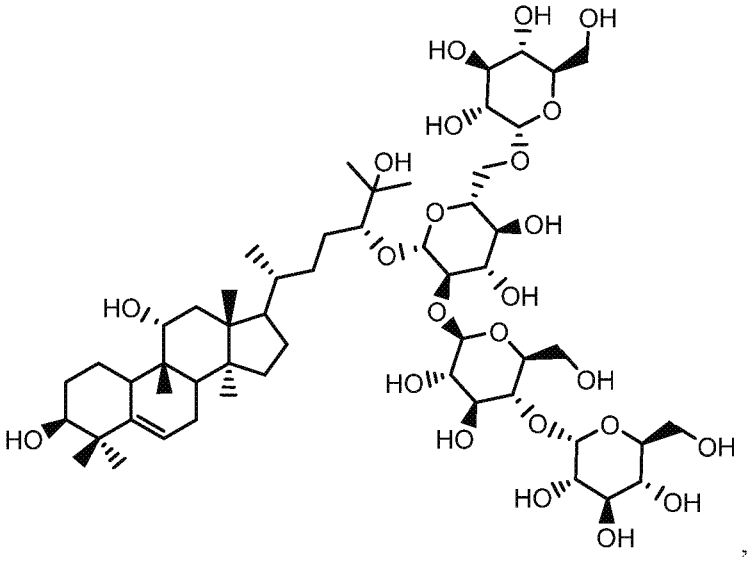
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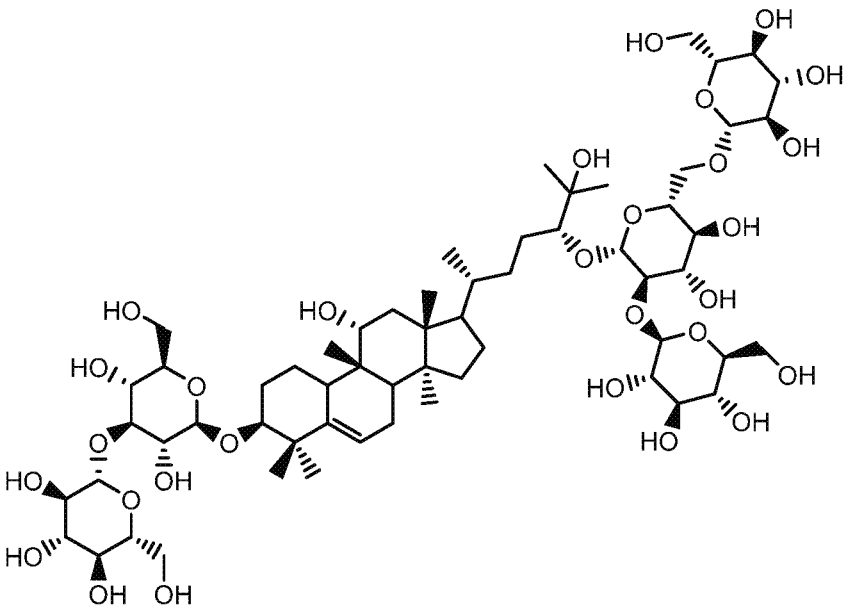
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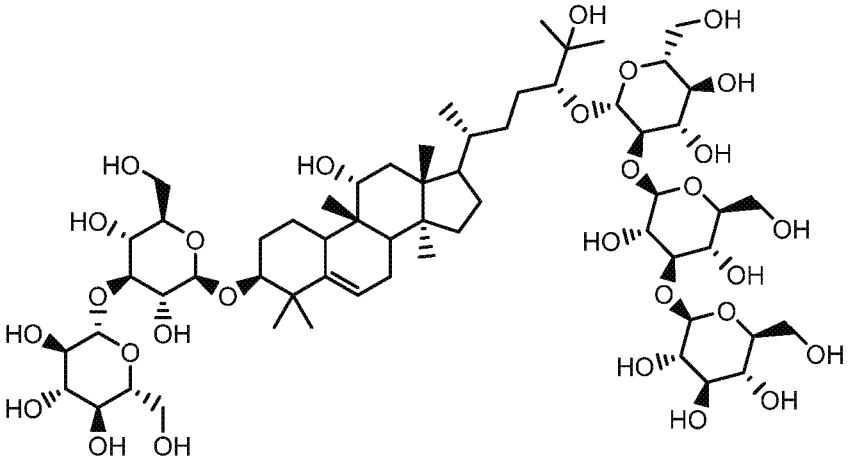
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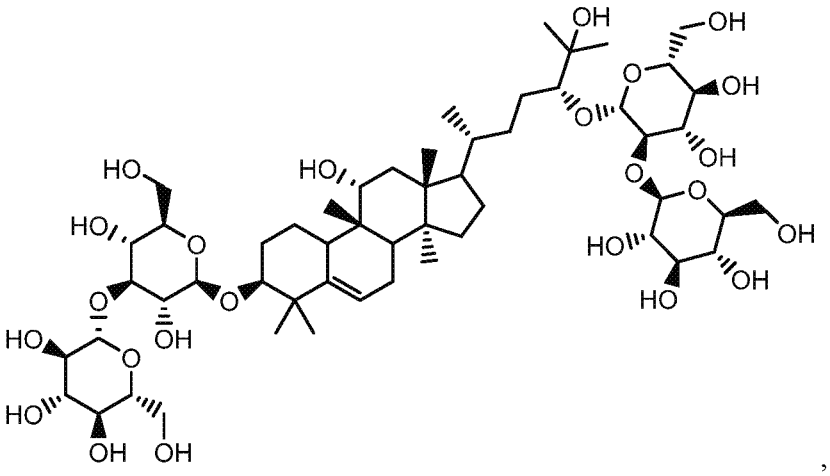
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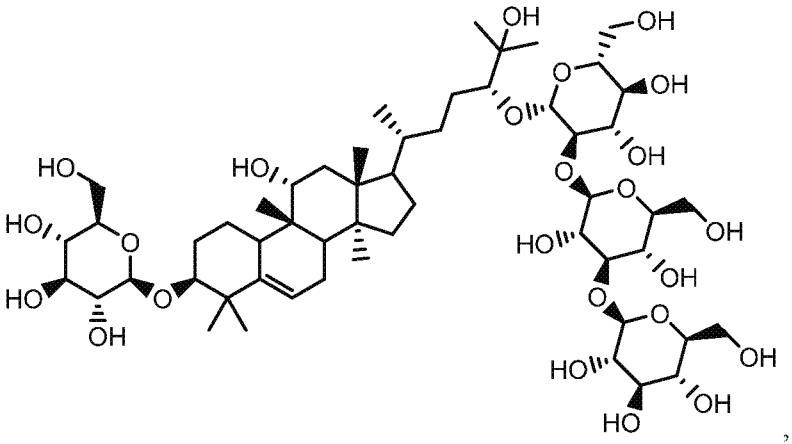
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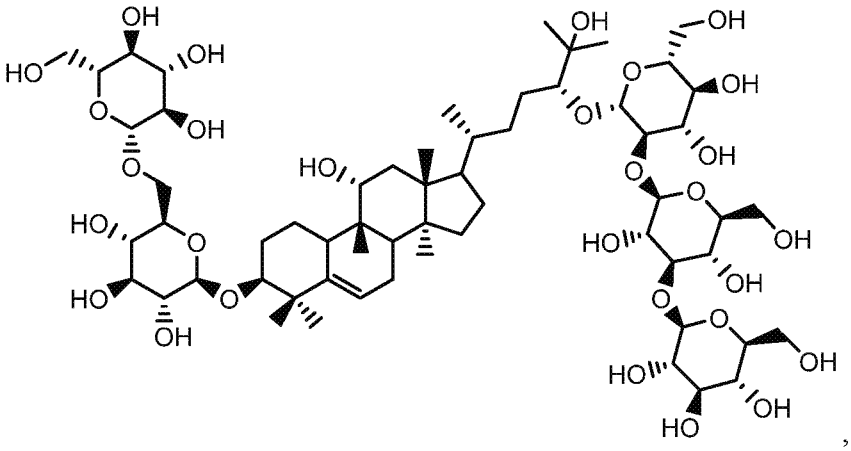
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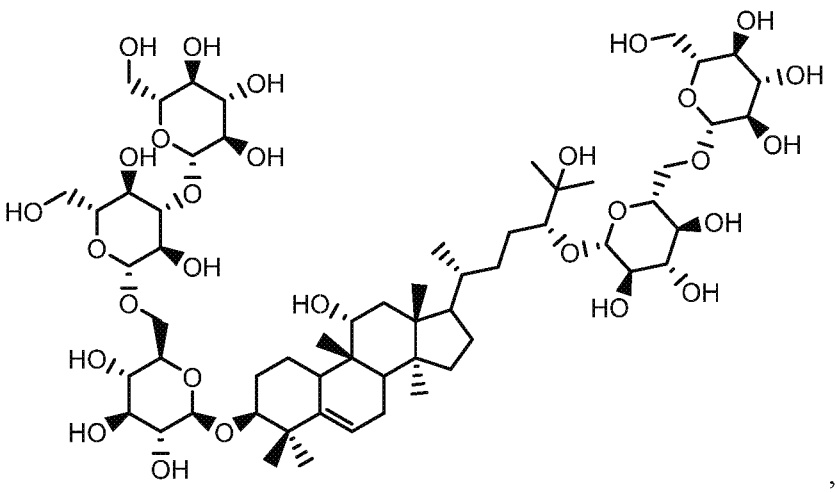
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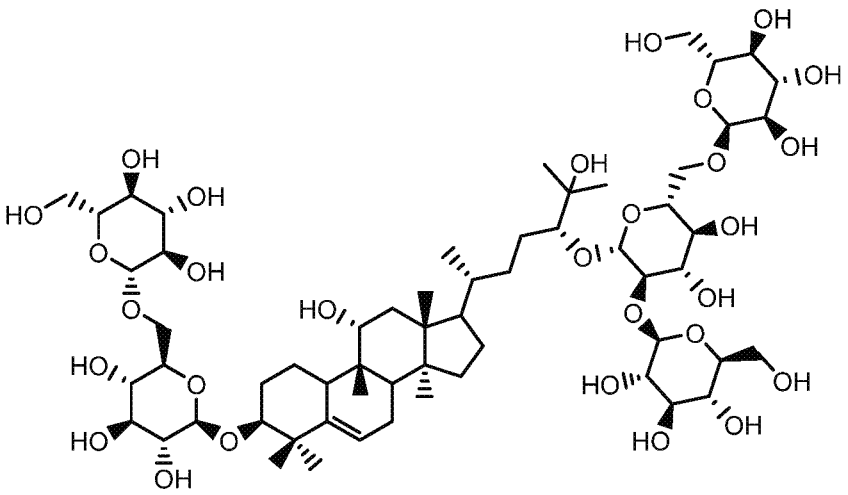
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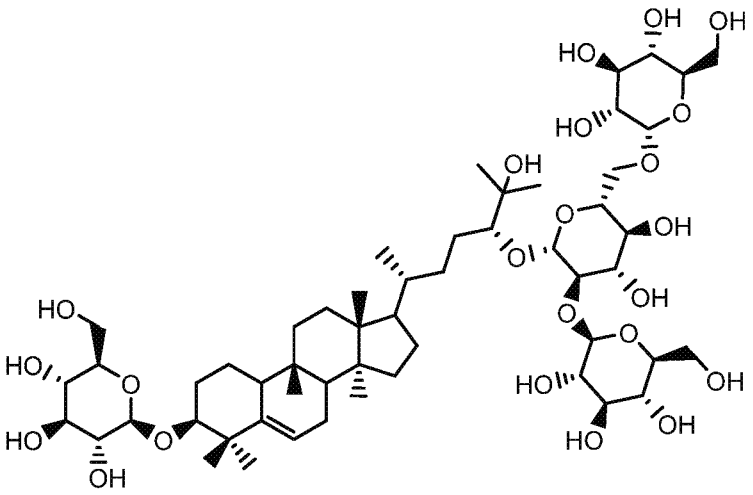
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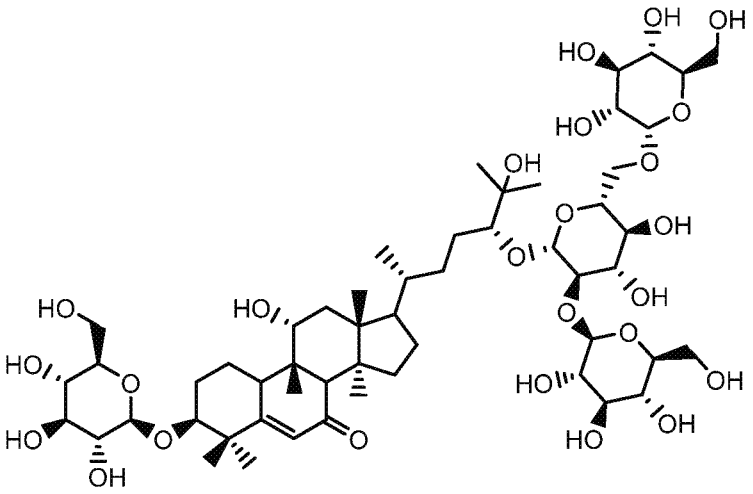
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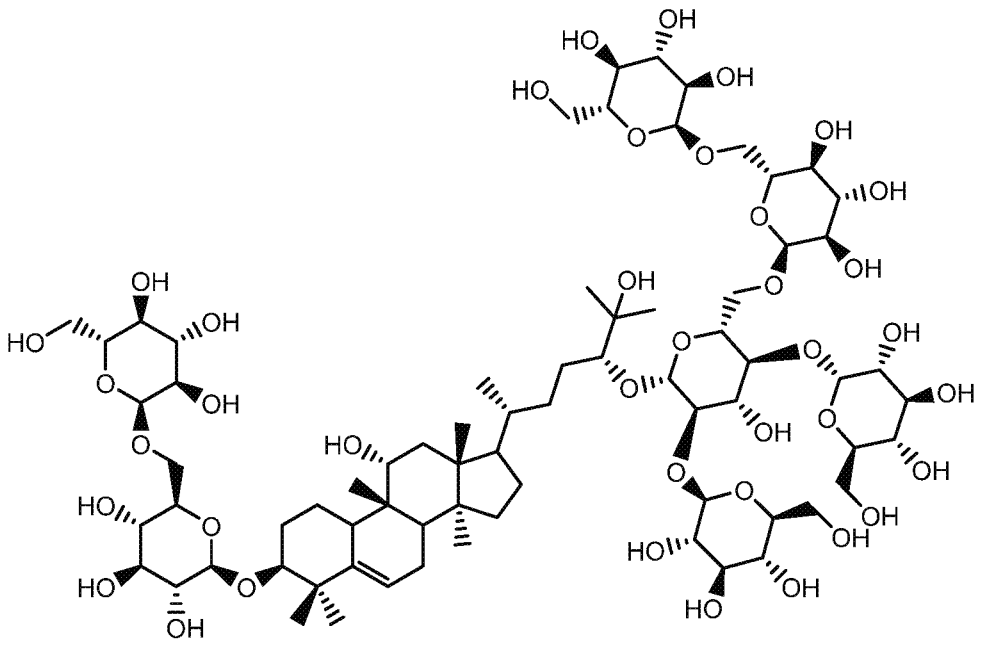
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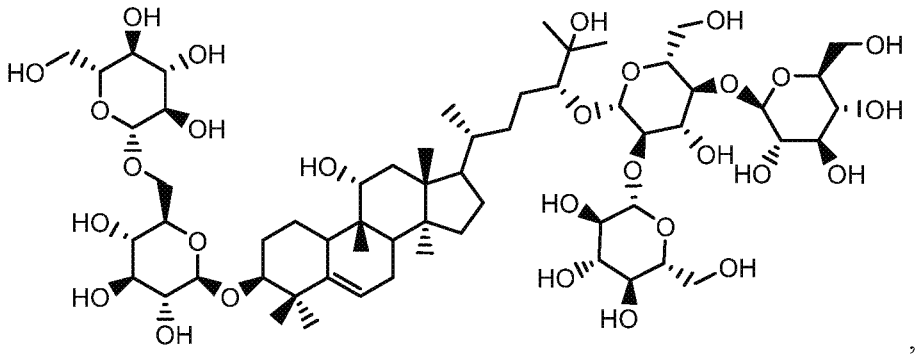
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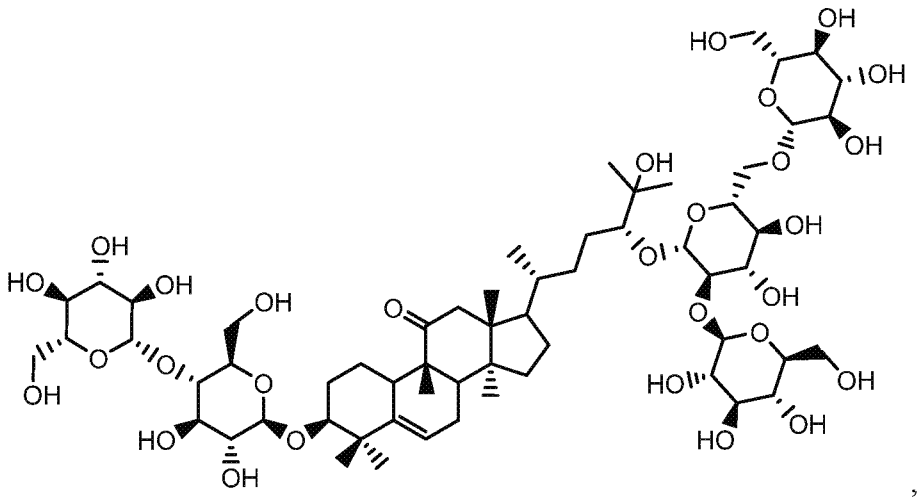
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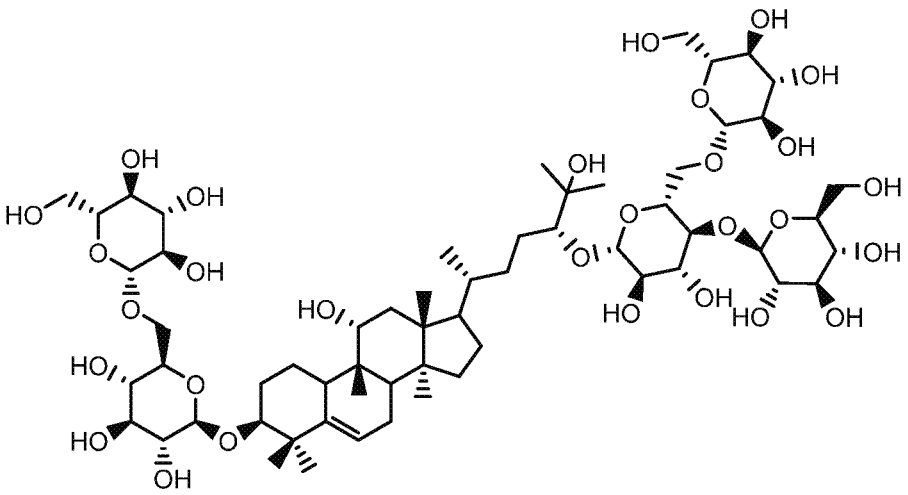
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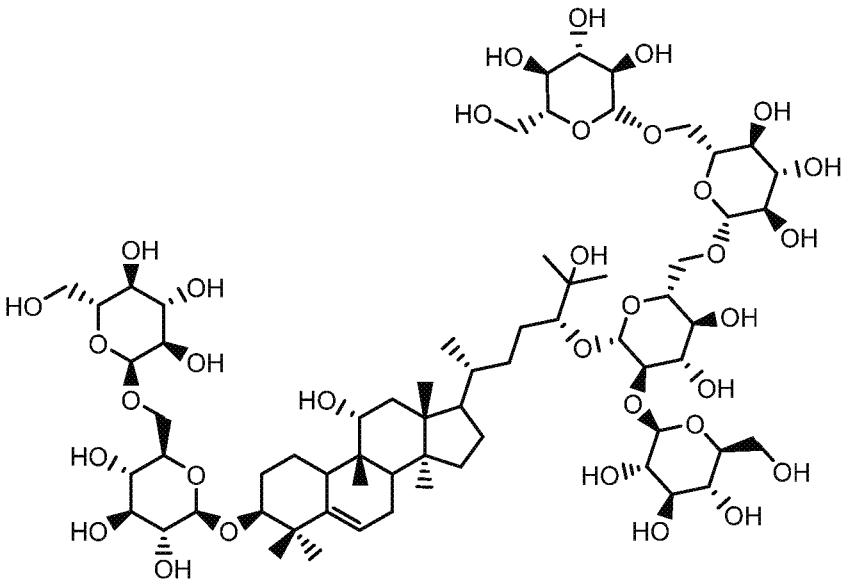
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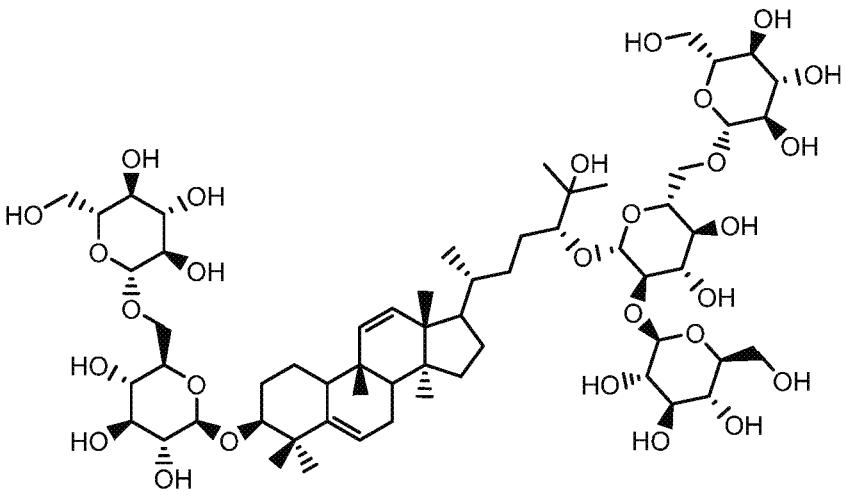
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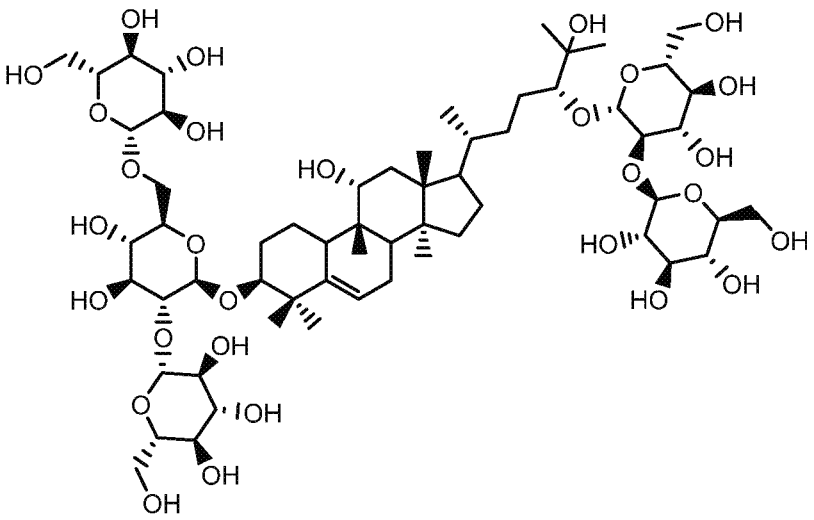
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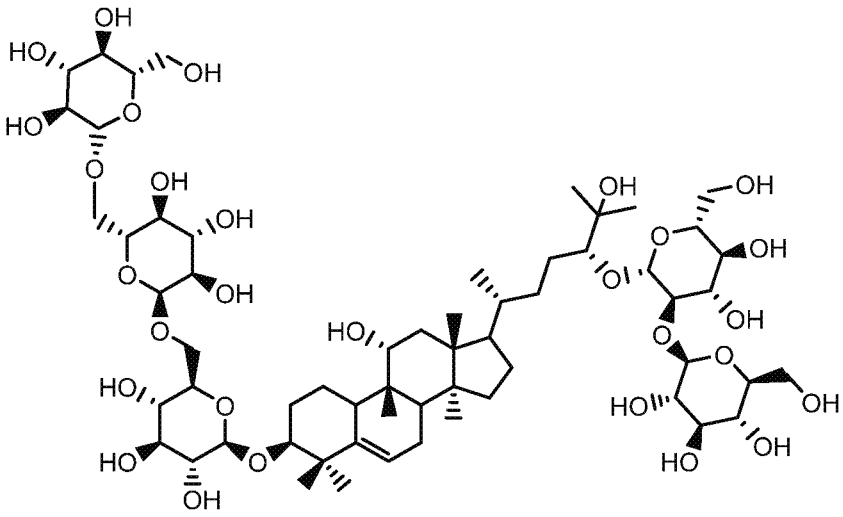


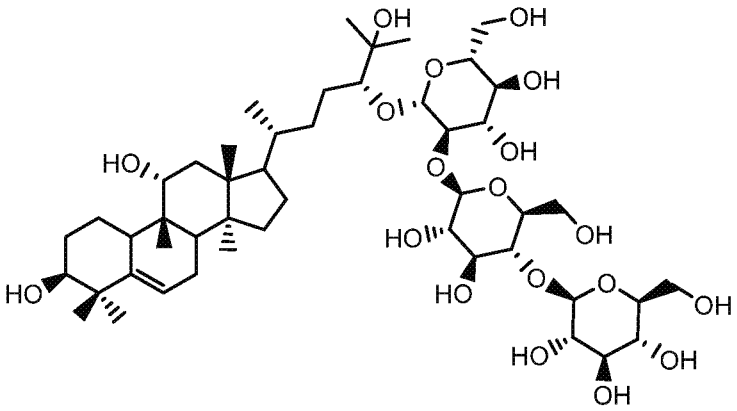
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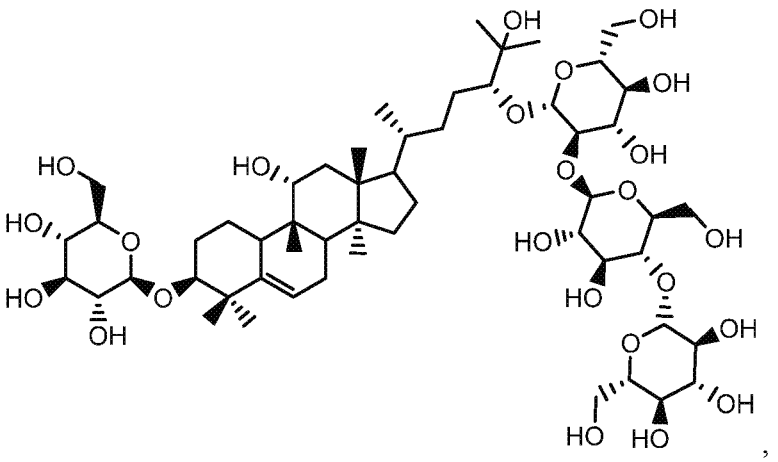


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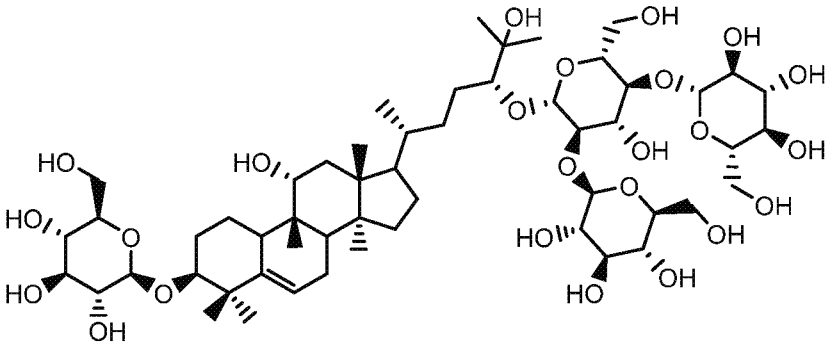




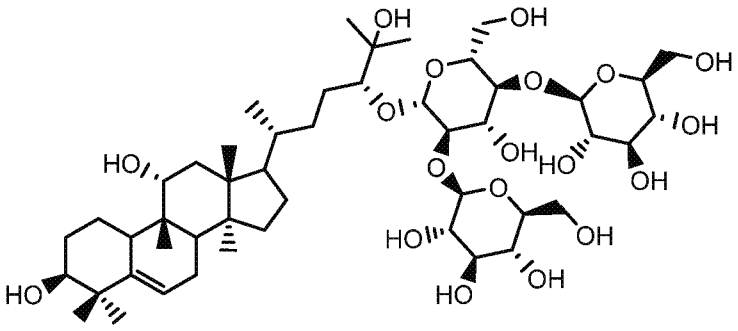




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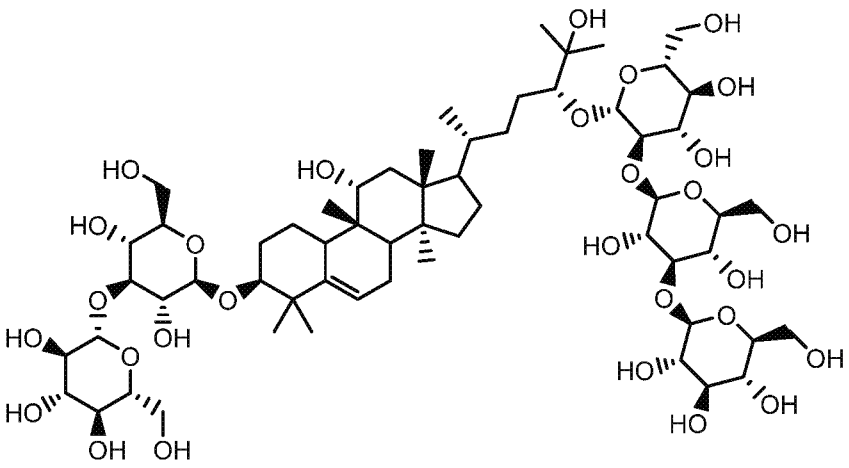


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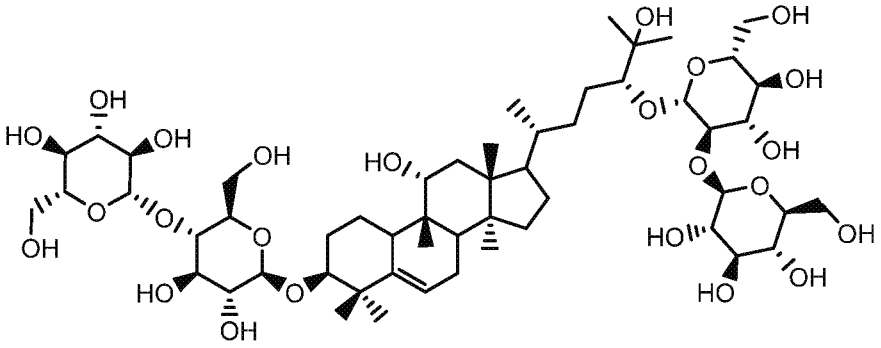
, or a salt thereof.

[0105] Some embodiments provide a method of making a compound having the structure:



, the method comprising treating Mogroside III_E with the glucose transferase enzyme UGT76G1.

[0106] Some embodiments provide a method of making a compound having the structure of Compound 1:



(1),

the method comprising fractionating an extract of *Siraitia grosvenorii* on an HPLC column and collecting an eluted fraction comprising Compound 1.

DETAILED DESCRIPTION

Definitions

[0107] Unless defined otherwise, all technical and scientific terms used herein have the same meaning as is commonly understood by one of ordinary skill in the art to which this disclosure belongs. All patents, applications, published applications, and other publications are incorporated by reference in their entirety. In the event that there is a plurality of definitions for a term herein, those in this section prevail unless stated otherwise.

[0108] "Solvate" refers to the compound formed by the interaction of a solvent and a compound described herein or salt thereof. Suitable solvates are physiologically acceptable solvates including hydrates.

[0109] A "sweetener", "sweet flavoring agent", "sweet flavor entity", "sweet compound," or "sweet tasting compound," as used herein refers to a compound or physiologically acceptable salt thereof that elicits a detectable sweet flavor in a subject.

[0110] As used herein, the term "medicinal product" includes both solids and liquid compositions which are ingestible non-toxic materials which have medicinal value or comprise medicinally active agents such as cough syrups, cough drops, aspirin and chewable medicinal tablets.

[0111] An "oral care product" includes solids and liquids such as toothpaste or mouthwash.

[0112] As used herein, the term "anti-caking agent" refers to a compound placed in powdered or granulated materials to prevent the formation of aggregates (lumps). Suitable anti-caking agents include, but are not limited to cream of tartar, tricalcium phosphate, powdered cellulose (including microcrystalline cellulose), magnesium stearate, sodium bicarbonate, sodium ferrocyanide, potassium ferrocyanide, calcium ferrocyanide, sodium silicate, silicon dioxide, calcium silicate, magnesium trisilicate, talcum powder, sodium aluminosilicate, potassium aluminum silicate, calcium aluminosilicate, bentonite, aluminum silicate, stearic acid, polydimethylsiloxane.

[0113] As used herein, the term "chelating agent" refers to a compound that can form two or more bonds with a metal ion (e.g., a multidentate ligand). Suitable chelating agents include, but are not limited to ethylene diamine, ethylenediaminetetraacetic acid (EDTA), citric acid, and amino acids.

[0114] A "flavor modifying compound" or "flavor modifier" or "flavor modifying agent" herein refers to a compound or the ingestibly acceptable salt or solvate thereof that modulates, including enhancing or potentiating, and/or inducing, the tastes of a flavoring agent in an animal or a human. An example of a flavor modifying compound is a sweet flavor enhancer.

[0115] A "flavoring agent" herein refers to a compound or the ingestibly acceptable salt or solvate thereof that induces a flavor or taste in an animal or a human. The flavoring agent can be natural, semi-synthetic, or synthetic.

[0116] A "flavor enhancer" herein refers to a compound or ingestibly acceptable salt thereof that enhances and/or multiplies the tastes of a flavoring agent, or an ingestible composition comprising the flavoring agent.

[0117] An "enhancer" herein refers to a compound, or an ingestibly acceptable salt or solvate thereof that modulates (increases) a flavor (*e.g.*, sweetness) or the activation of a particular receptor, preferably the chemosensory, *e.g.*, T1R2/T1R3 receptor.

[0118] A "flavor" herein refers to the perception of taste in a subject, which include sweet, sour, salty, bitter and umami. The subject may be a human or an animal.

[0119] A "sweet flavor modifier" or "sweet flavor modifying agent" herein refers to a compound or ingestibly acceptable salt or solvate thereof that modulates, including enhancing or potentiating, inducing, or blocking, the sweet taste of a sweet flavoring agents in an animal or a human. The sweet flavor modifier includes both sweet flavor enhancer and sweet flavoring agent.

[0120] A "sweet flavor enhancer" or "sweet flavor enhancing agent" herein refers to an enhancer of a sweet flavor wherein the term enhancer is the same as defined above.

[0121] The "sugar-like" characteristics of the compounds of the present invention include any characteristic similar to that of sucrose and include, but are not limited to, maximal response, flavor profile, temporal profile, adaptation behavior, mouthfeel, concentration/response function, tastant/and flavor/sweet taste interactions, spatial pattern selectivity, and temperature effects. These characteristics are dimensions in which the taste of sucrose is different from the tastes of other compounds. Of these, the flavor profile and temporal profile are particularly important. In a single tasting of a sweet food or beverage, differences (1) in the attributes that constitute a sweetener's flavor profile and (2) in the rates of sweetness onset and dissipation, which constitute a sweetener's temporal profile, between those observed for sucrose and other compounds can be noted.

[0122] The flavor profile of a sweetener is a quantitative profile of the relative intensities of all of the taste attributes exhibited. Such profiles often are plotted as histograms or radar plots.

[0123] As used herein, "isolated" means that the indicated compound has been separated from its natural milieu, such that one or more other compounds or biological agents present with the compound in its natural state are no longer present.

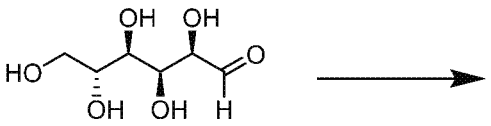
[0124] As used herein, "purified" means that the indicated compound is present at a higher amount relative to other compounds typically found with the indicated compound (e.g., in its natural environment). In various embodiments, the relative amount of purified a purified compound is increased by greater than 1%, 5%, 10%, 20%, 30%, 40%, 50%, 80%, 90%, 100%, 120%, 150%, 200%, 300%, 400%, or 1000%. In some embodiments, a purified compound is present at a weight percent level greater than 1%, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, 98%, 99%, or 99.5% relative to other compounds combined with the compound.

[0125] As used herein, "pyranose" refers to carbohydrate groups having a chemical structure with a six-membered ring including five carbon atoms and one oxygen atom, optionally with additional atoms outside the ring. For example, the glucopyranose structures shown below. In some embodiments, a pyranose can be a pentose or a hexose. Non-limiting examples of pyranose include six-membered ring forms of ribose, arabinose, xylose, lyxose, allose, altrose, glucose, mannose, gulose, iodose, galactose, and talose. The pyranose may have either a D- or L- configuration. In the context of Formula (I), a pyranose moiety is present as a mono- or di-radical linked to other parts of the molecule (e.g., the mogrol scaffold or other pyranose or furanose moieties).

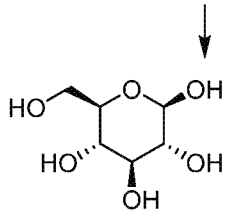
[0126] As used herein, "furanose" refers to carbohydrate groups having a chemical structure with a five-membered ring including four carbon atoms and one oxygen atom, optionally with additional atoms outside the ring. For example, the glucofuranose structures shown below. In some embodiments, a furanose can be a pentose or a hexose. Non-limiting examples of furanose include five-membered ring forms of ribose, arabinose, xylose, lyxose, allose, altrose, glucose, mannose, gulose, iodose, galactose, and talose. The furanose may have either a D- or L- configuration. In the context of Formula (I), a furanose moiety is present as a

mono- or di-radical linked to other parts of the molecule (e.g., the mogrol scaffold or other pyranose or furanose moieties).

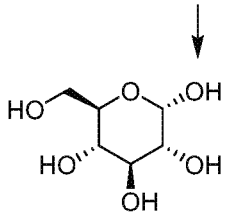
[0127] Pyranose and furanose moieties may be alpha (α) or beta (β), depending on the orientation of the anomeric hydroxyl group (indicated with an arrow in the structures of glucose, below).



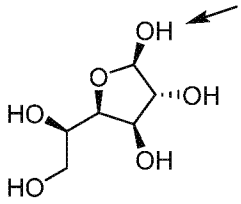
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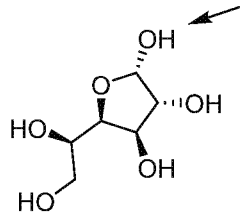
Beta-glucopyranose



Alpha-glucopyranose

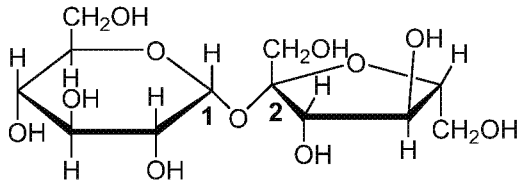


Beta-glucofuranose



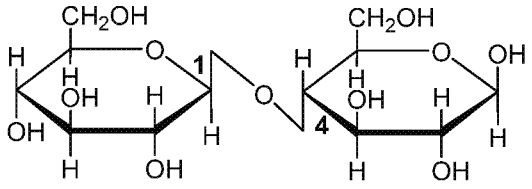
Alpha-glucofuranose

[0128] As used herein, a "glycosidic bond" refers to a covalent bond connecting two furanose and/or pyranose groups together. Generally, a glycosidic bond is the bond between the anomeric carbon of one furanose or pyranose moiety and an oxygen of another furanose or pyranose moiety. Glycosidic bonds are named using the numbering of the connected carbon atoms, and the alpha/beta orientation. α- and β-glycosidic bonds are distinguished based on the relative stereochemistry of the anomeric position and the stereocenter furthest from C1 in the ring. For example, sucrose is a disaccharide composed of one molecule of glucose and one molecule of fructose connected through an alpha 1-2 glycosidic bond, as shown below.



Alpha-glucopyranose Beta-fructofuranose

[0129] An example of a beta 1-4 glycosidic bond can be found in cellulose:

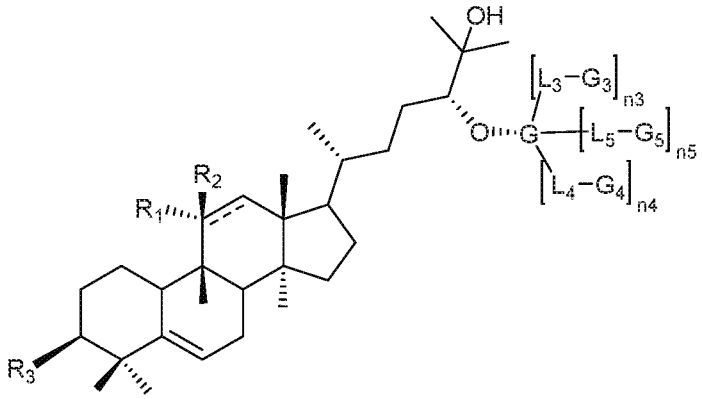


[0130] It must be noted that, as used in the specification and the appended claims, the singular forms "a," "an" and "the" include plural referents unless the context clearly dictates otherwise. Thus, for example, reference to "an aromatic compound" includes mixtures of aromatic compounds.

[0131] Often, ranges are expressed herein as from "about" one particular value, and/or to "about" another particular value. When such a range is expressed, another embodiment includes from the one particular value and/or to the other particular value. Similarly, when values are expressed as approximations, by use of the antecedent "about," it will be understood that the particular value forms another embodiment. It will be further understood that the endpoints of each of the ranges are significant both in relation to the other endpoint, and independently of the other endpoint.

Compounds

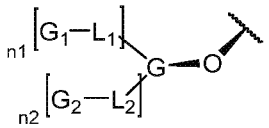
[0132] Some embodiments provide a compound having the structure of formula (I):



(I), or a salt thereof.

[0133] In some embodiments, ------ represents a carbon-carbon single bond or a carbon-carbon double bond.

[0134] In some embodiments, R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group.

[0135] In some embodiments, R_3 is selected from –OH and  .

[0136] In some embodiments, each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3.

[0137] In some embodiments, each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety.

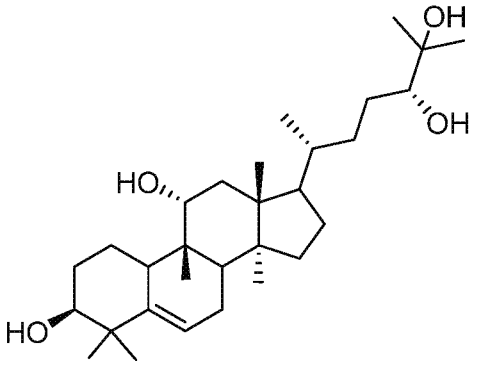
[0138] In some embodiments, each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond.

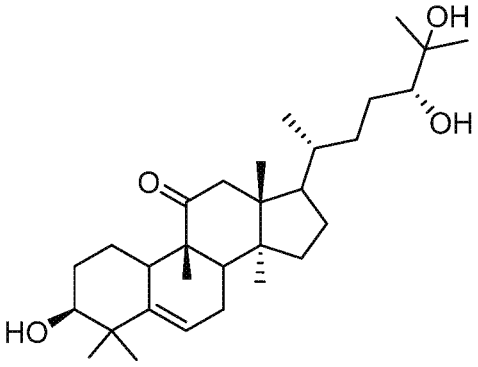
[0139] When ------ is a carbon-carbon double bond, R_1 is absent.

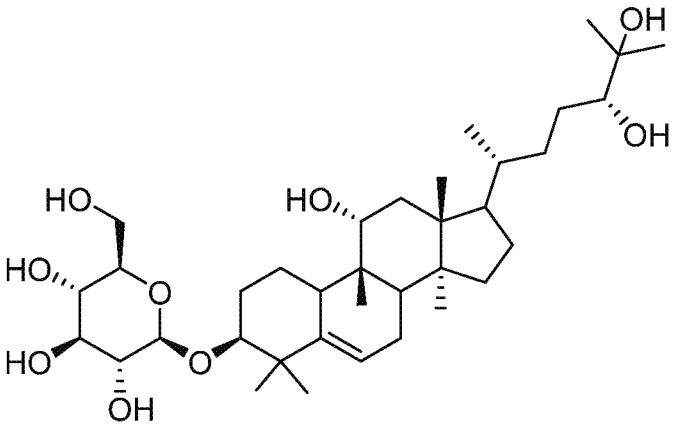
[0140] In some embodiments, the compound is in isolated and purified form.

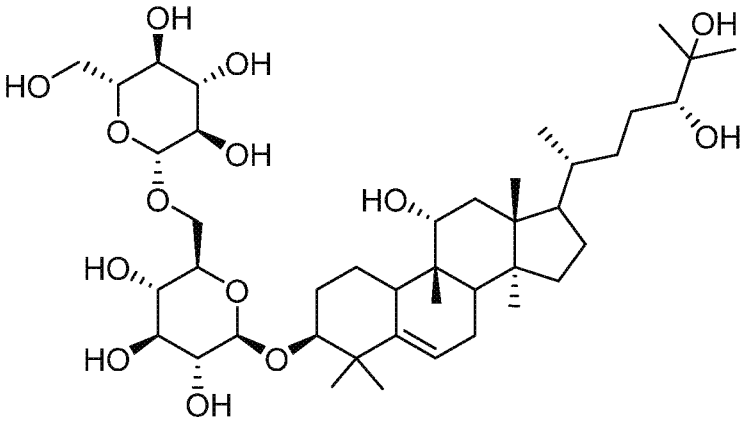
[0141] In some embodiments, each of L_1, L_2, L_3, L_4, L_5 and L_6 is independently selected from an α-1,2; α-1,3; α-1,4; α-1,6; β-1,2; β-1,3; β-1,4; and β-1,6 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is selected from an α-1,2; α-1,3; α-1,4; and α-1,6 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is selected from an β-1,2; β-1,3; β-1,4; and β-1,6 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an α-1,2 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an α-1,3 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an α-1,4 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an α-1,6 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an β-1,2 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an β-1,3 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an β-1,4 glycosidic bond. In some embodiments, at least one of L_1, L_2, L_3, L_4, L_5 and L_6 is an β-1,6 glycosidic bond.

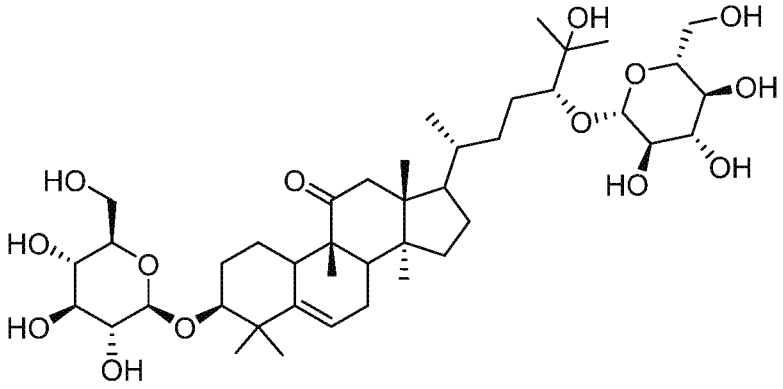
[0142] In some embodiments of the compounds, compositions, products, methods, or concentrates described above, formula (I) is not selected from:



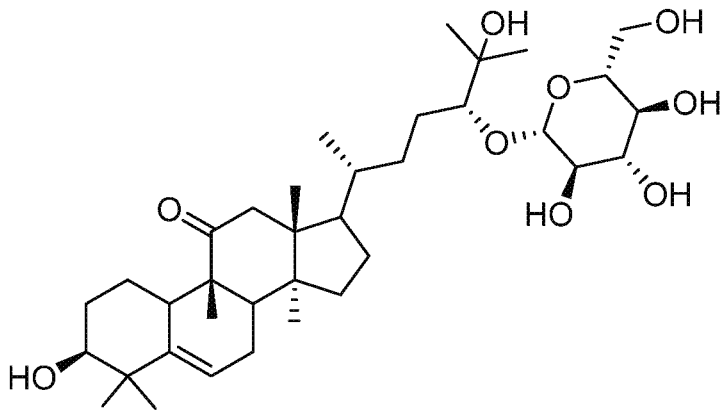




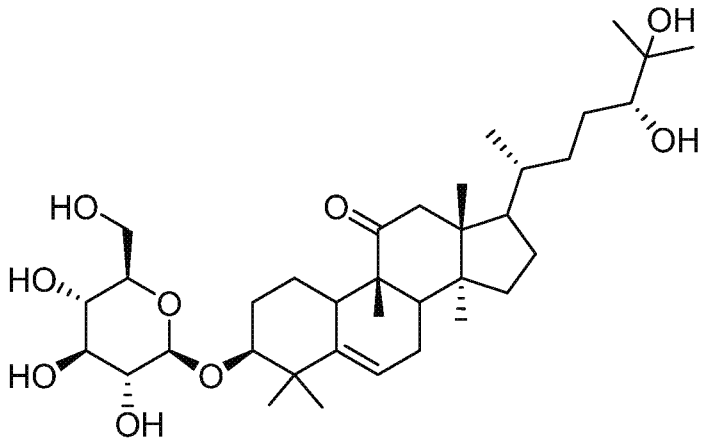




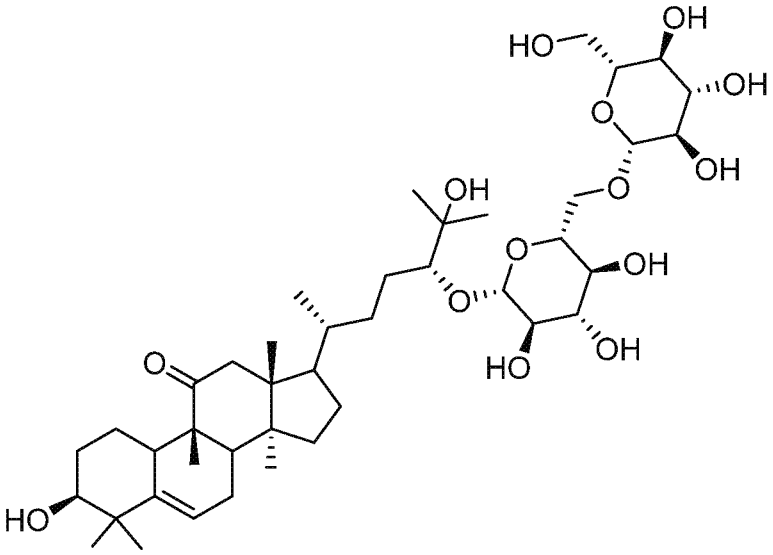
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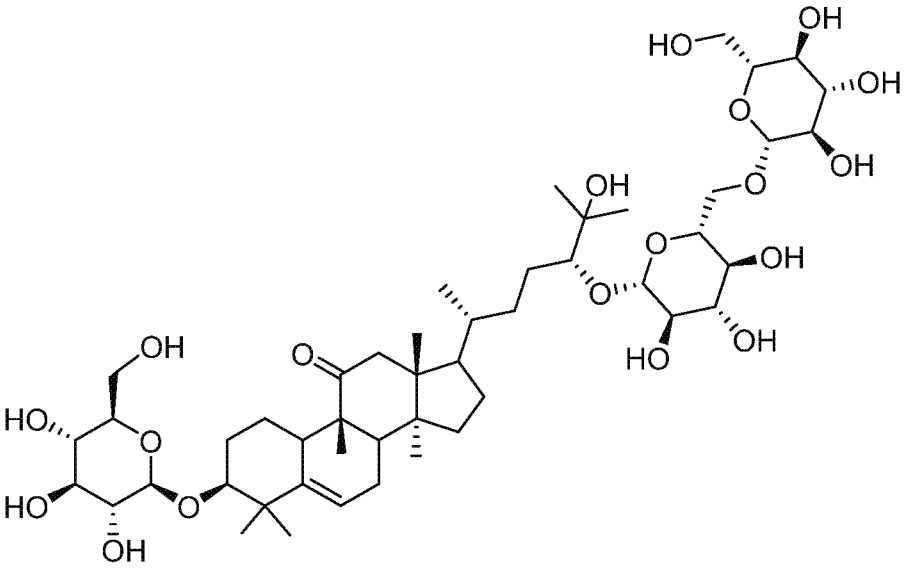
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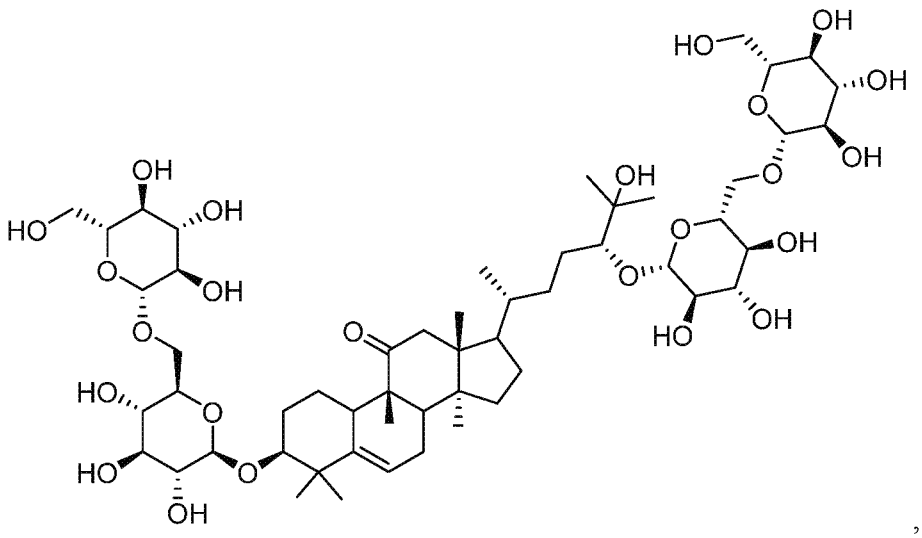
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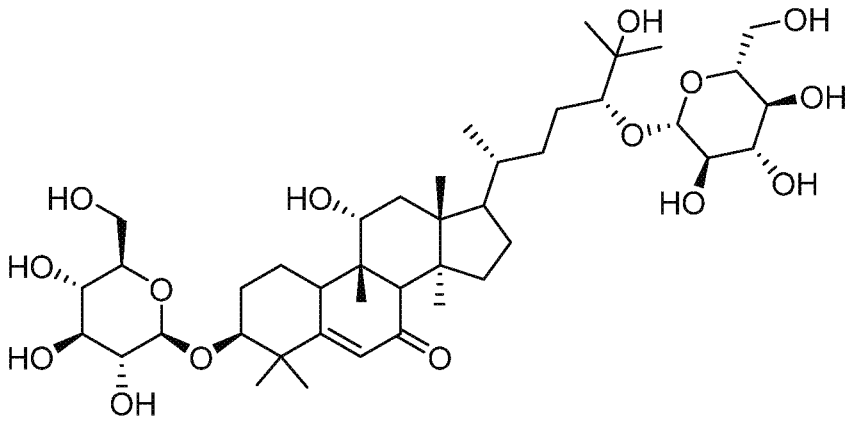
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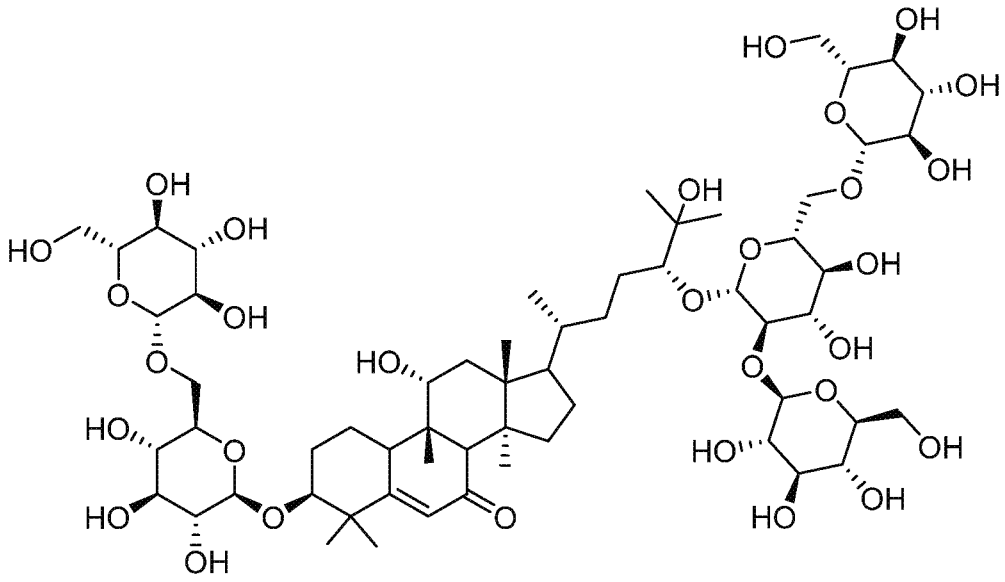
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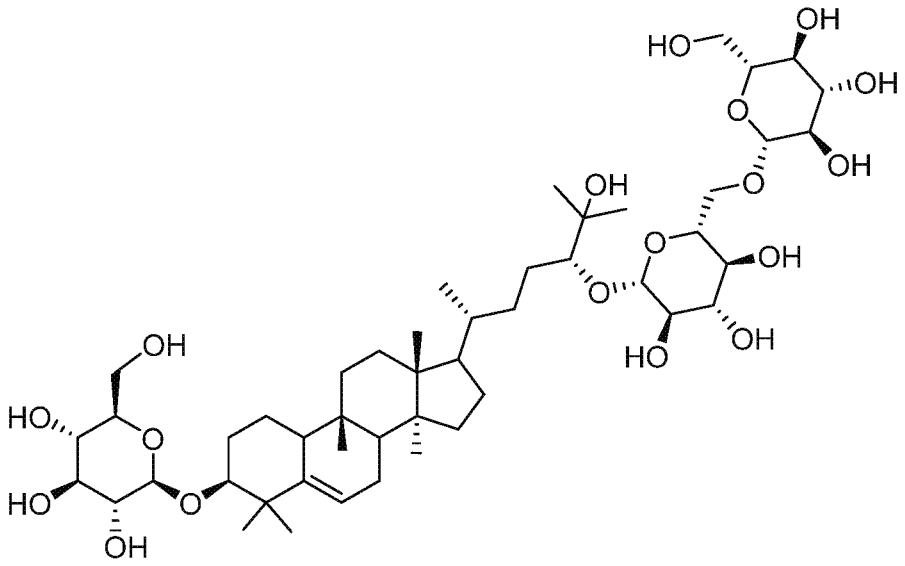
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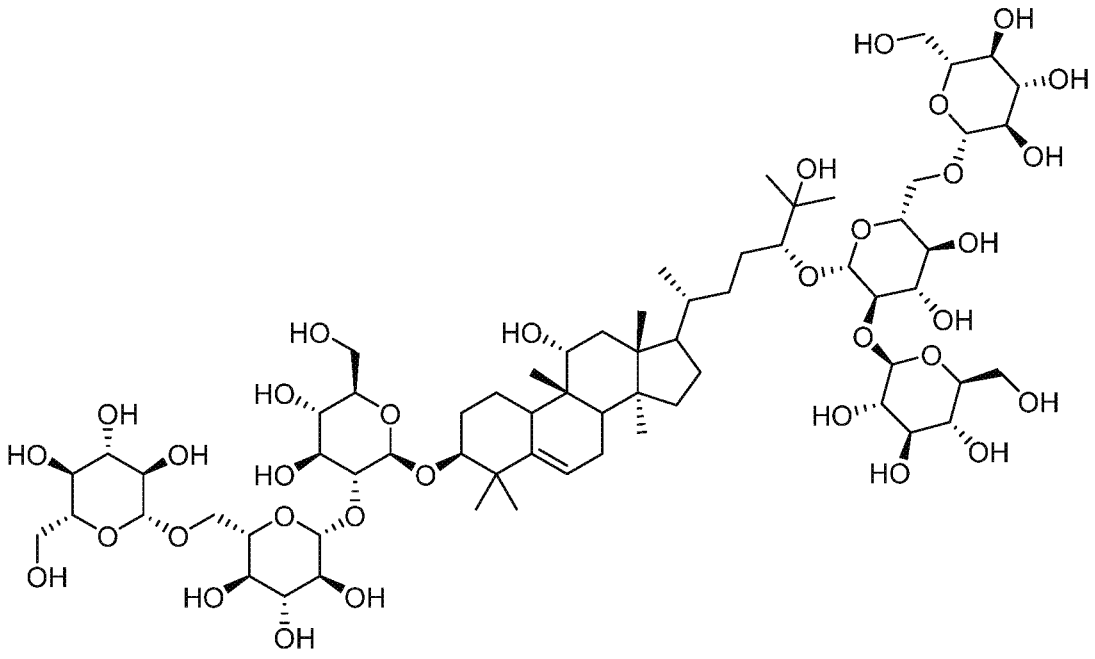
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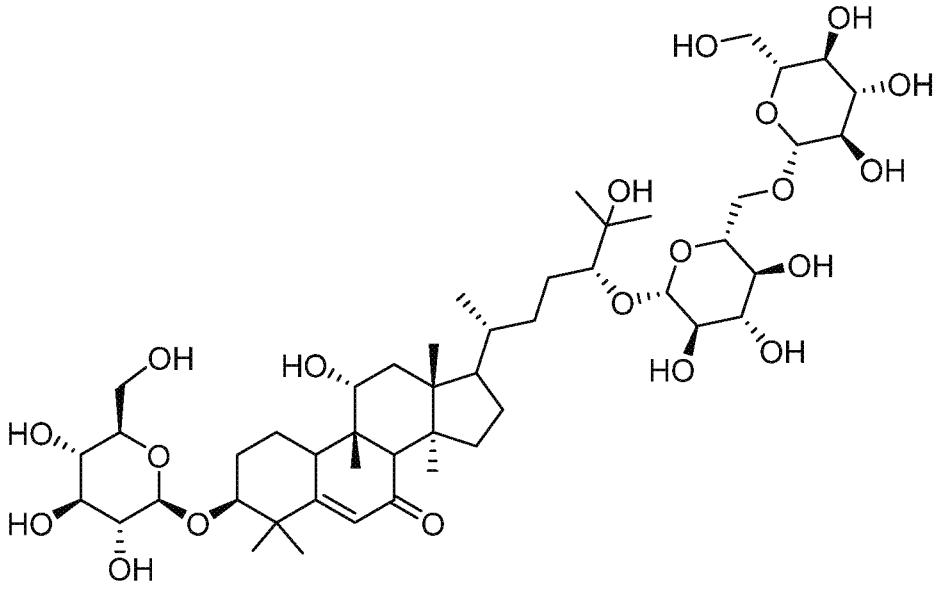
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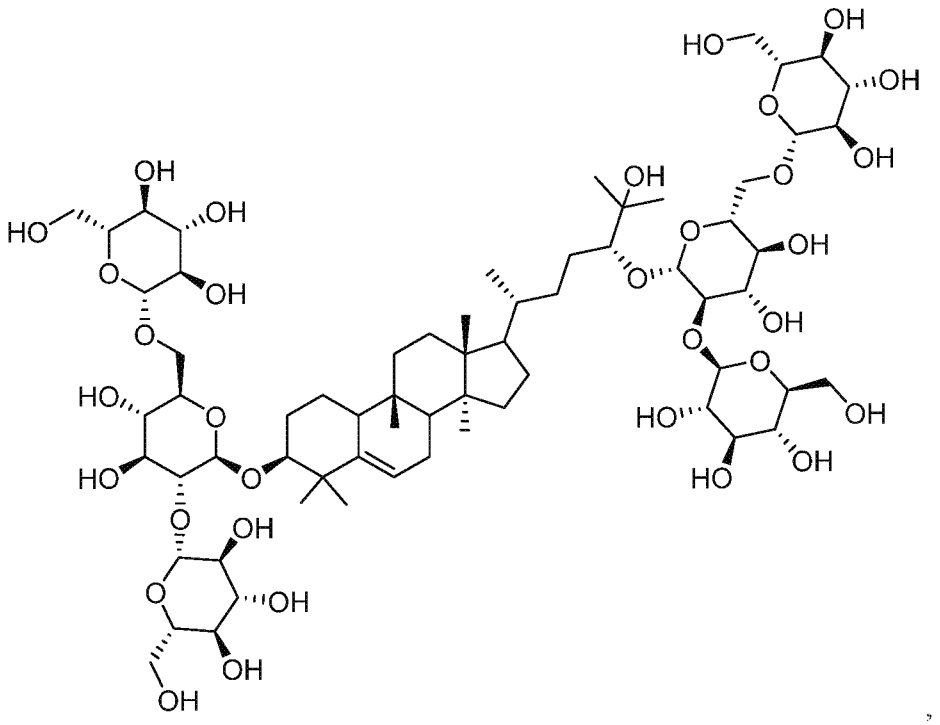


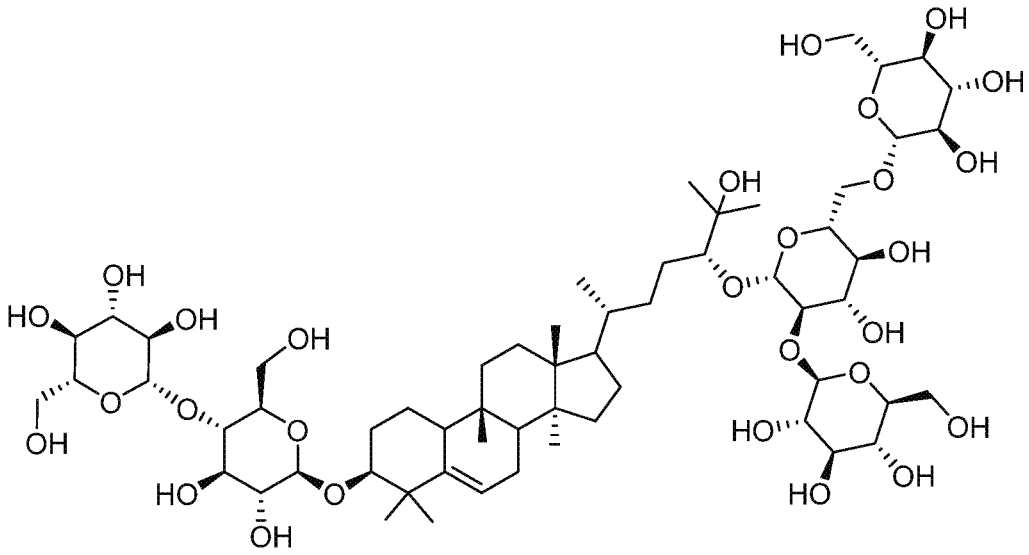
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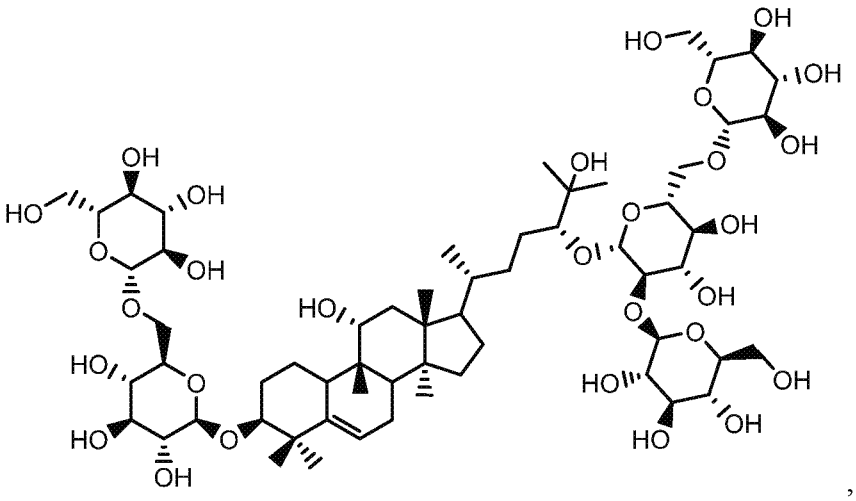
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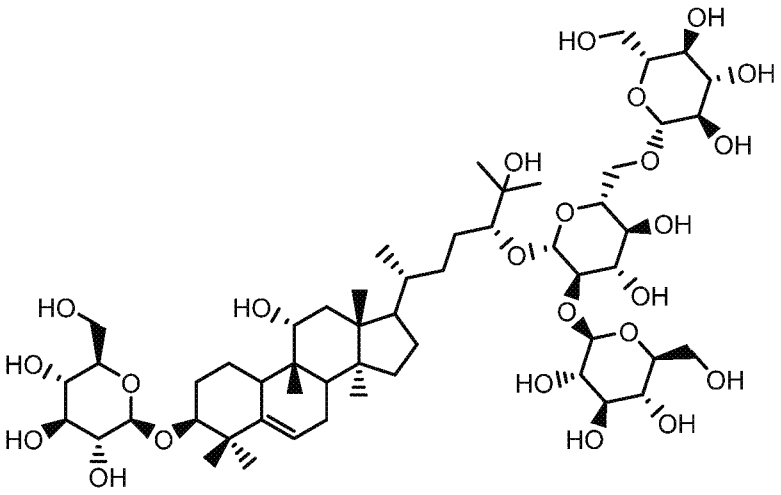




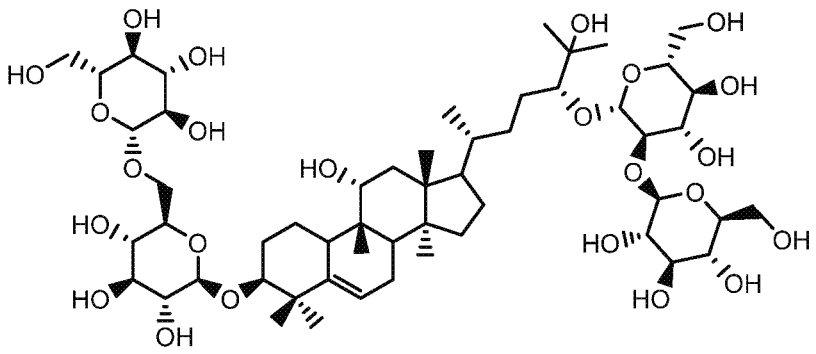
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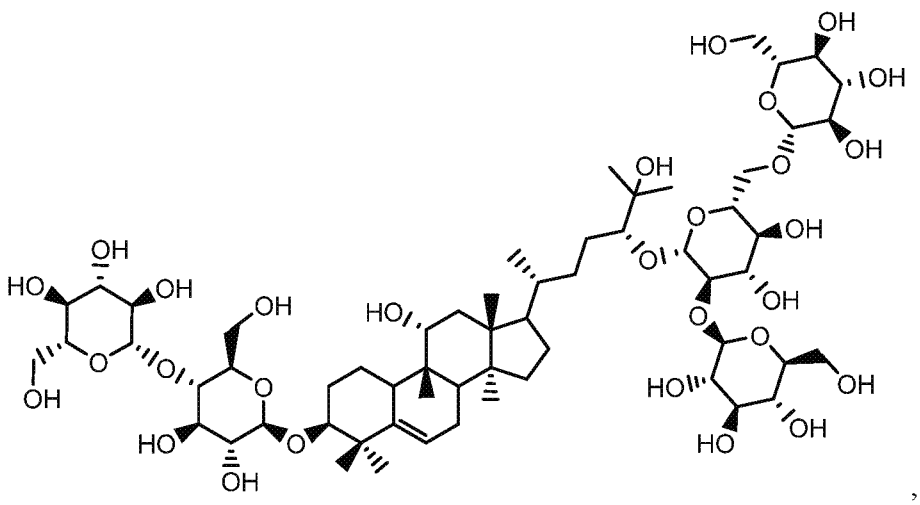
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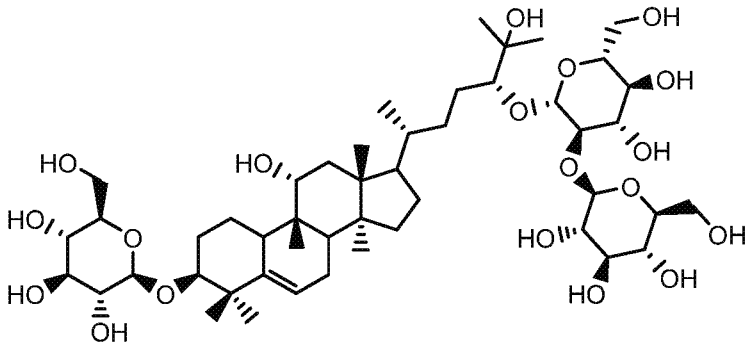
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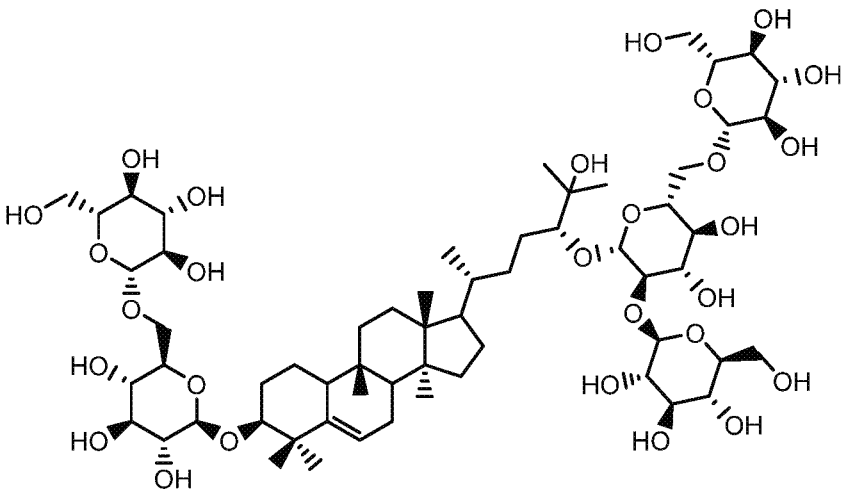
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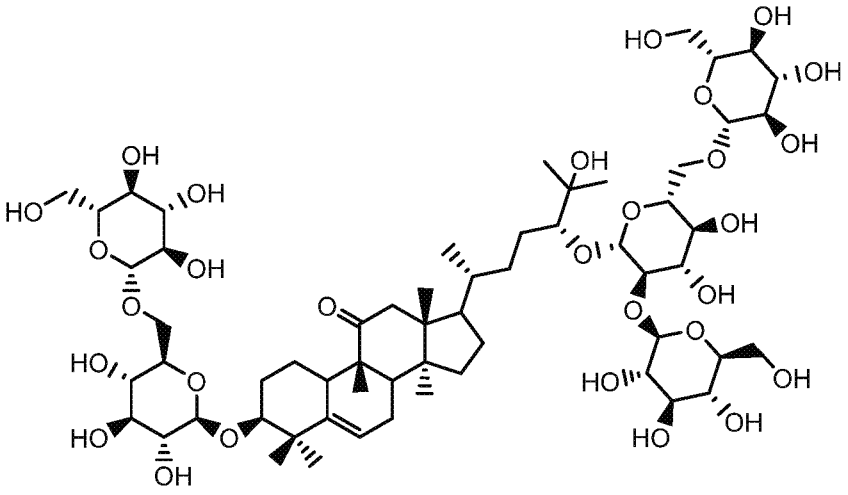
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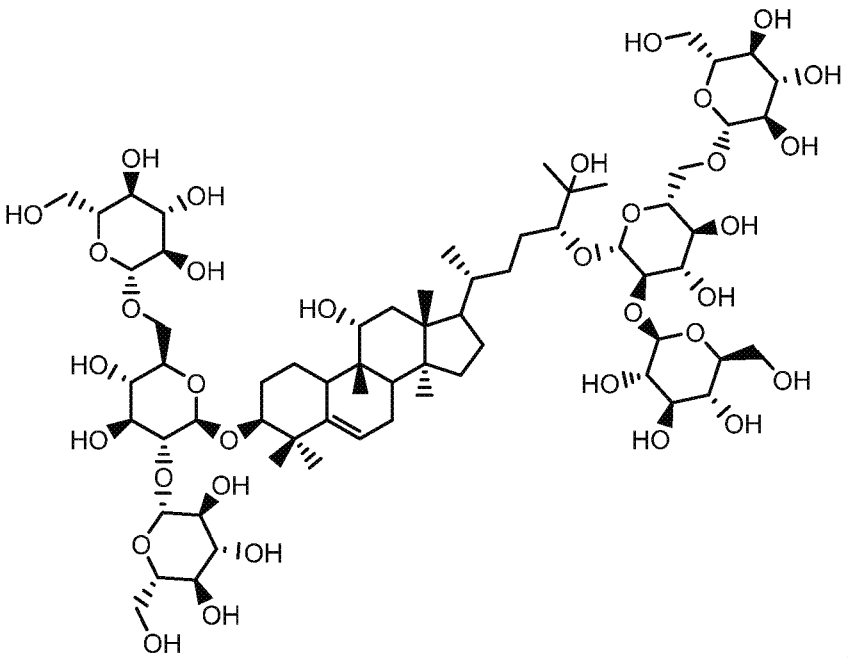
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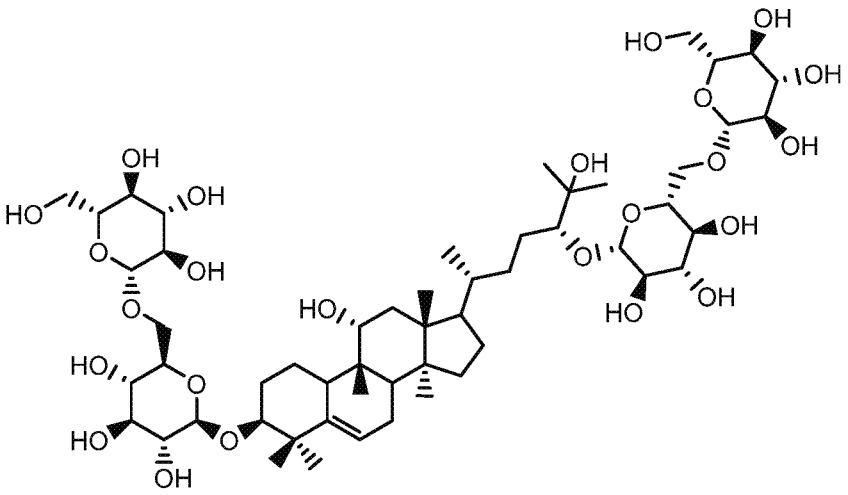
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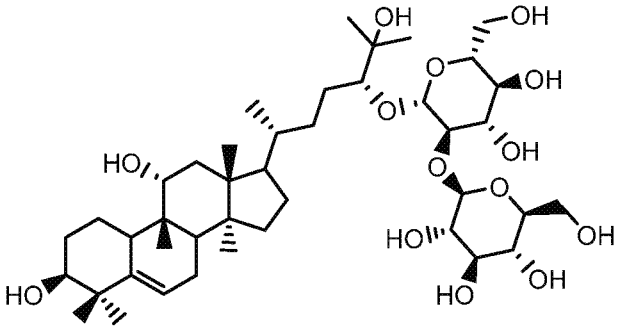
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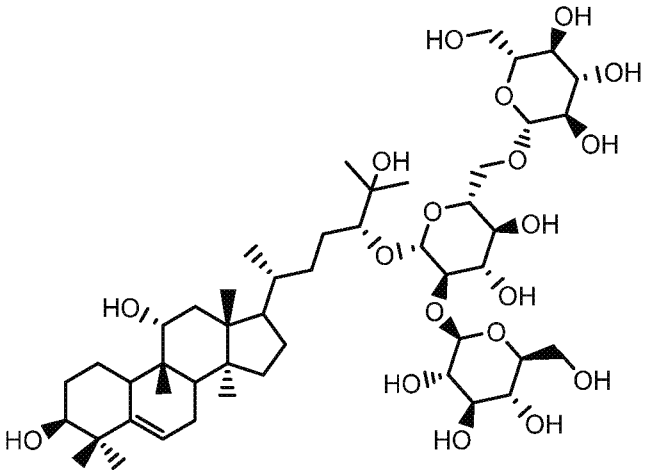
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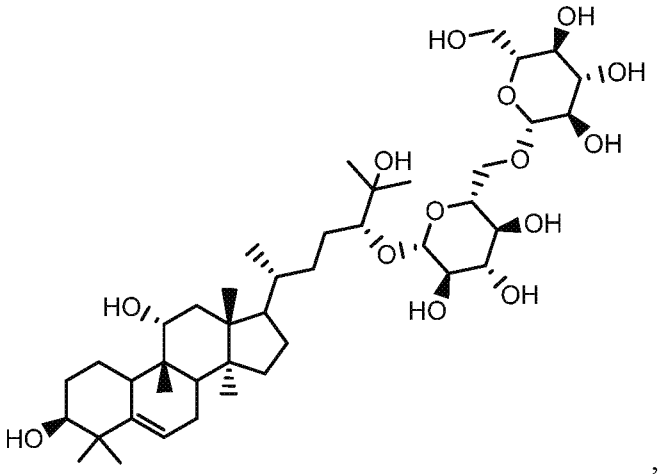
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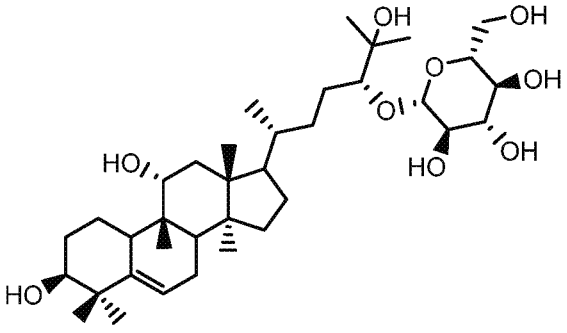
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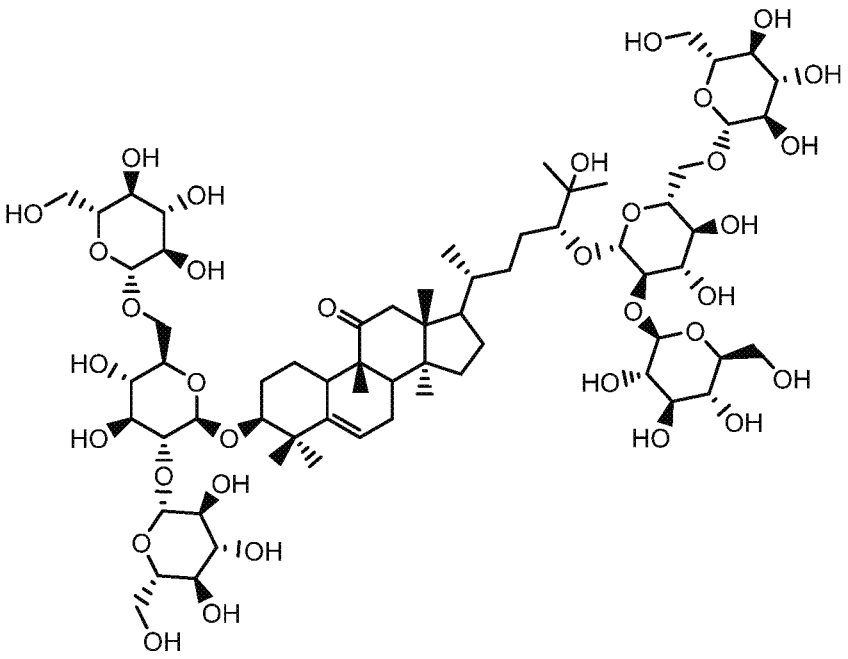
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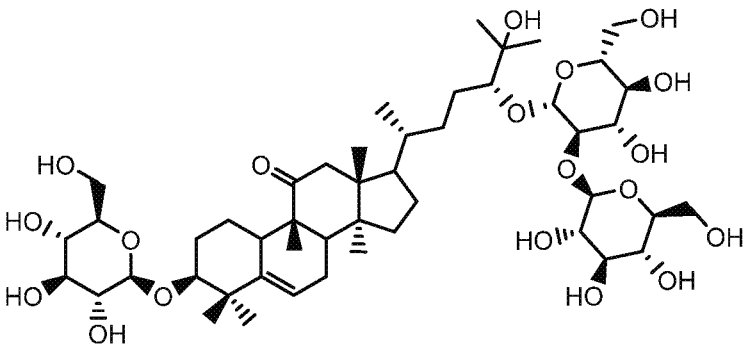
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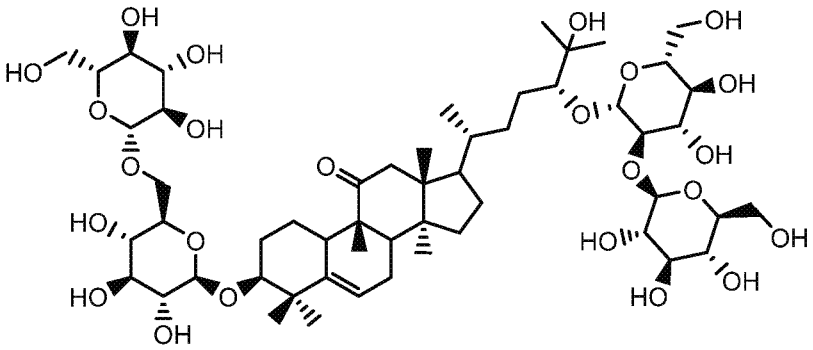
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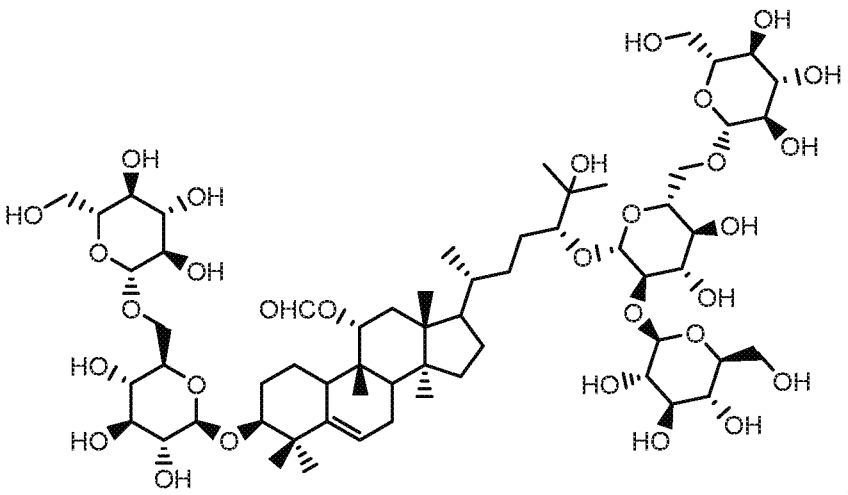
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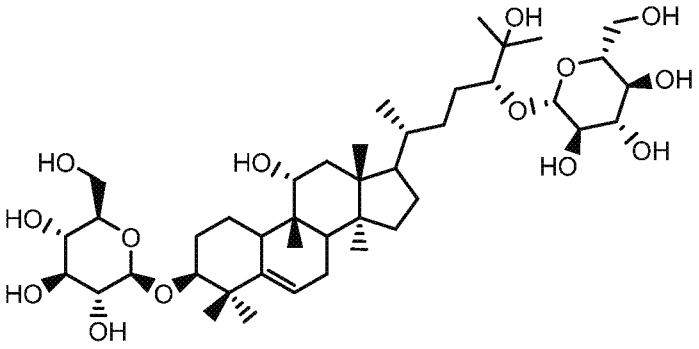
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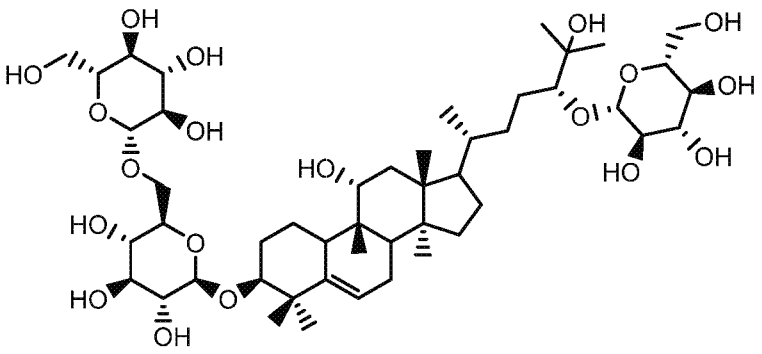
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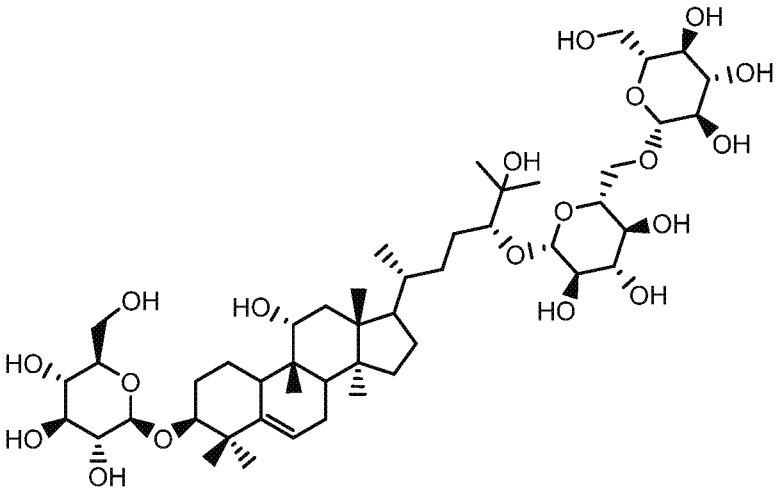
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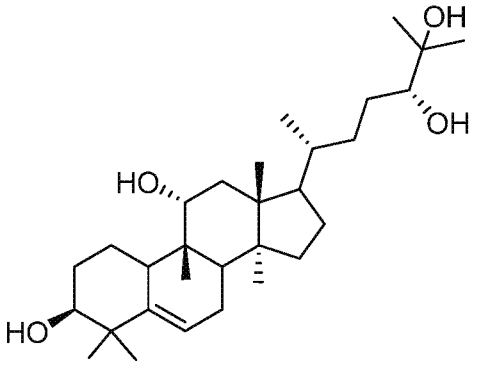


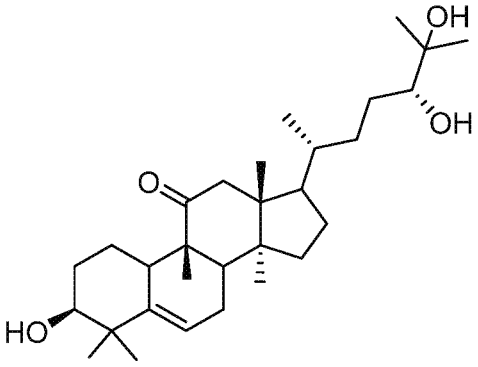
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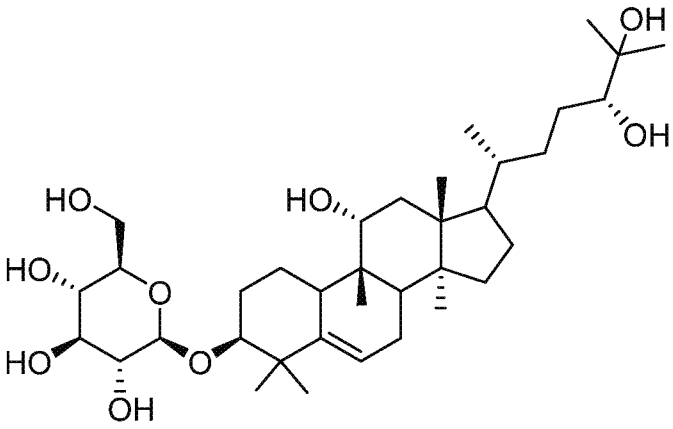


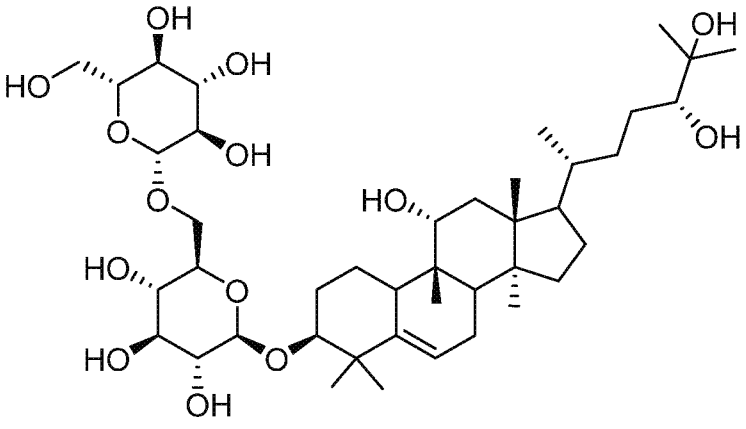
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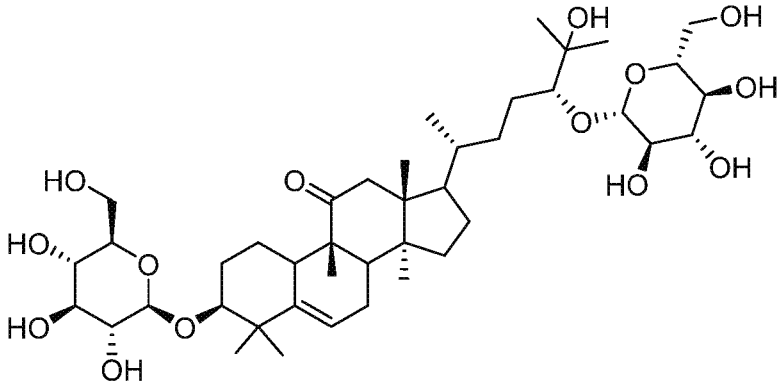
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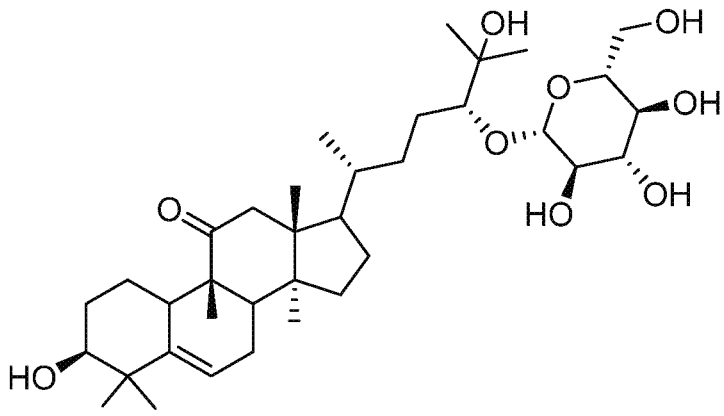

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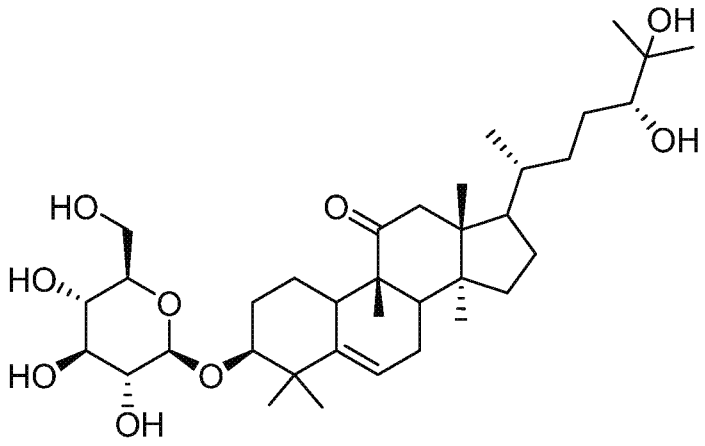

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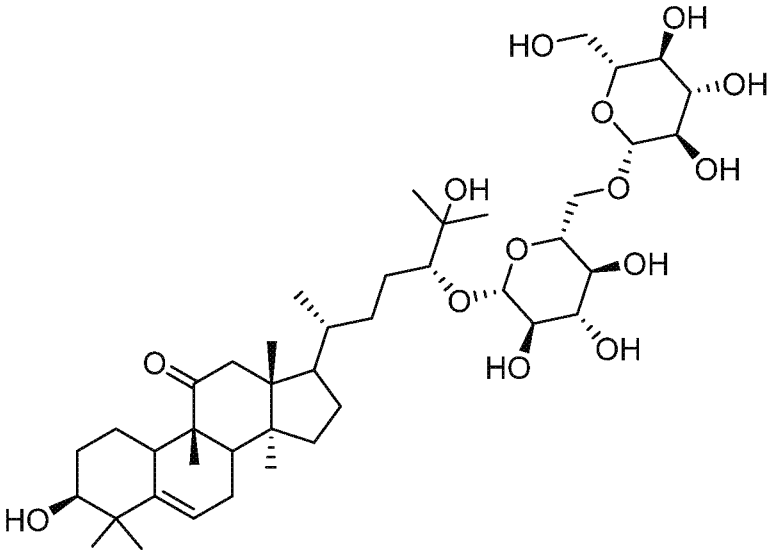
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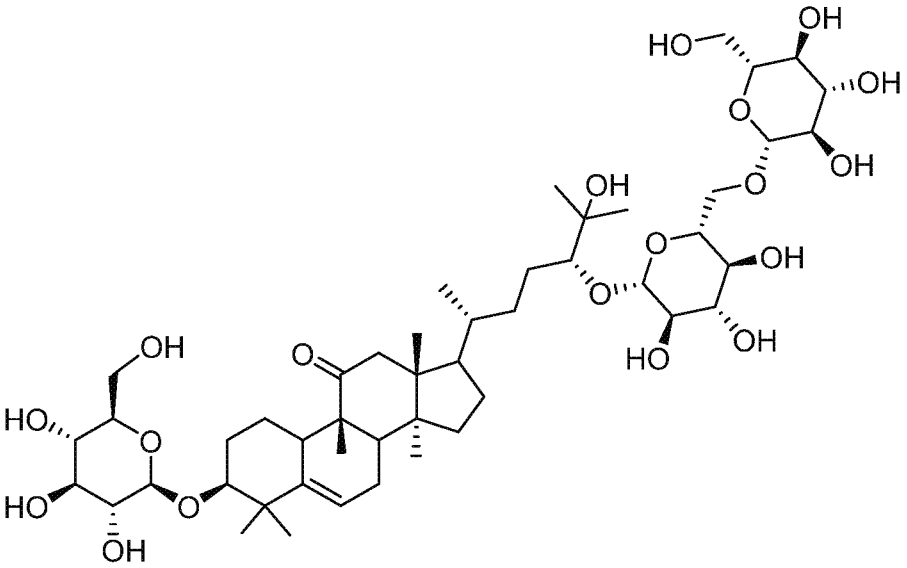
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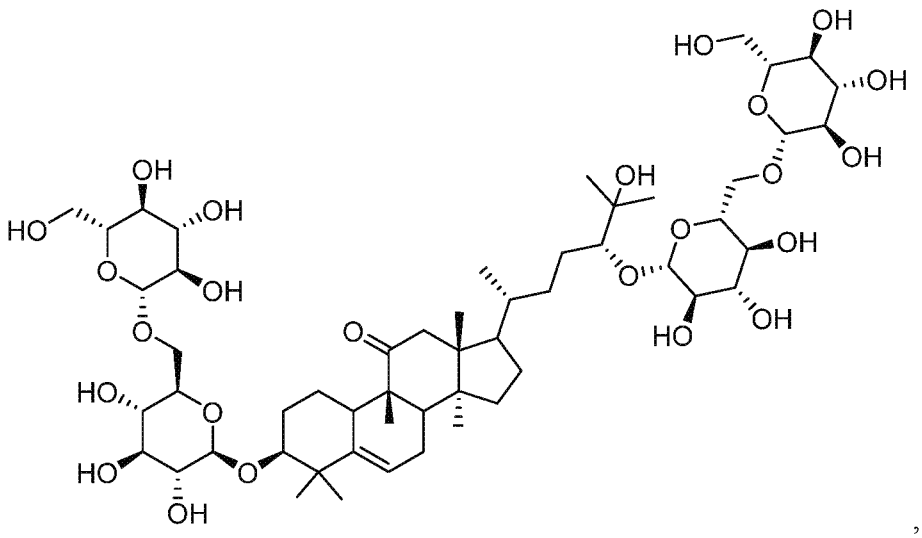
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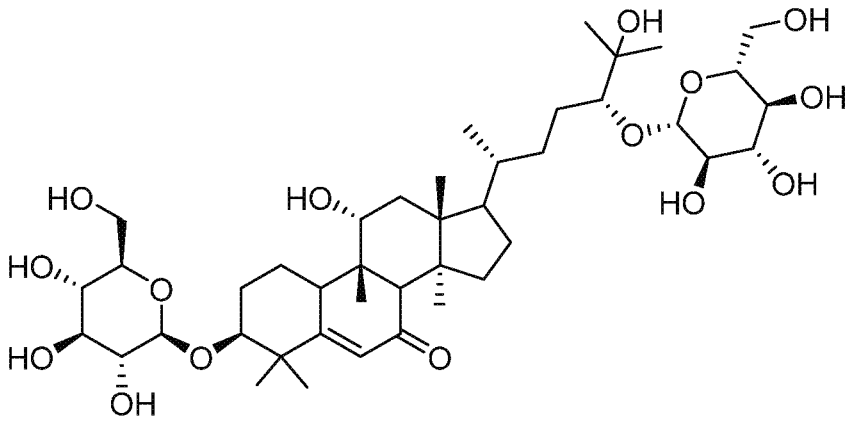
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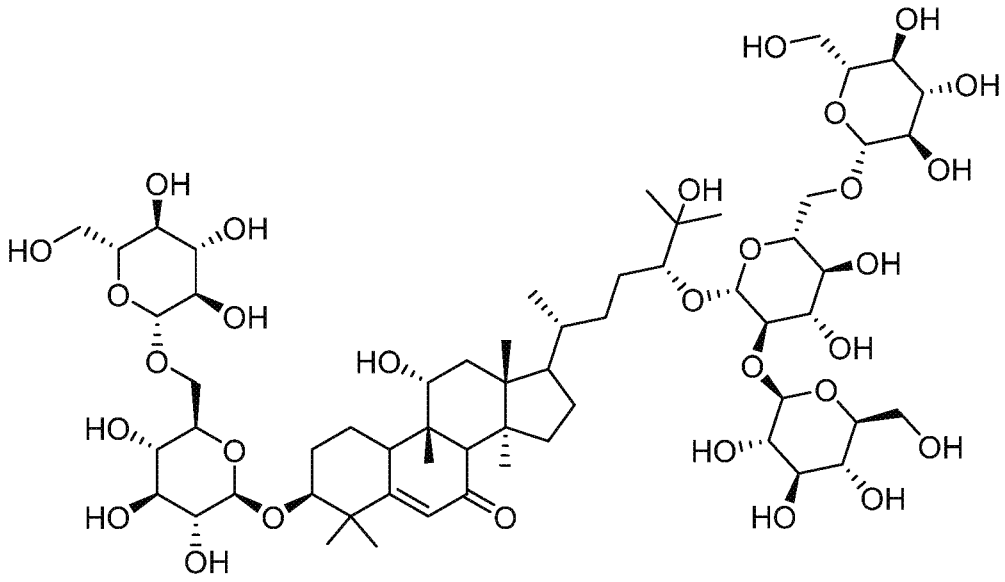
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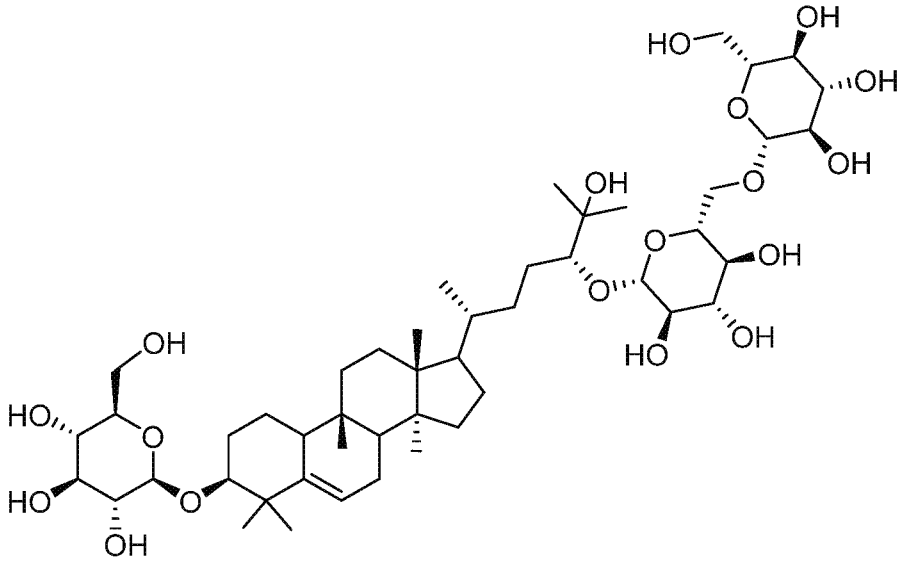
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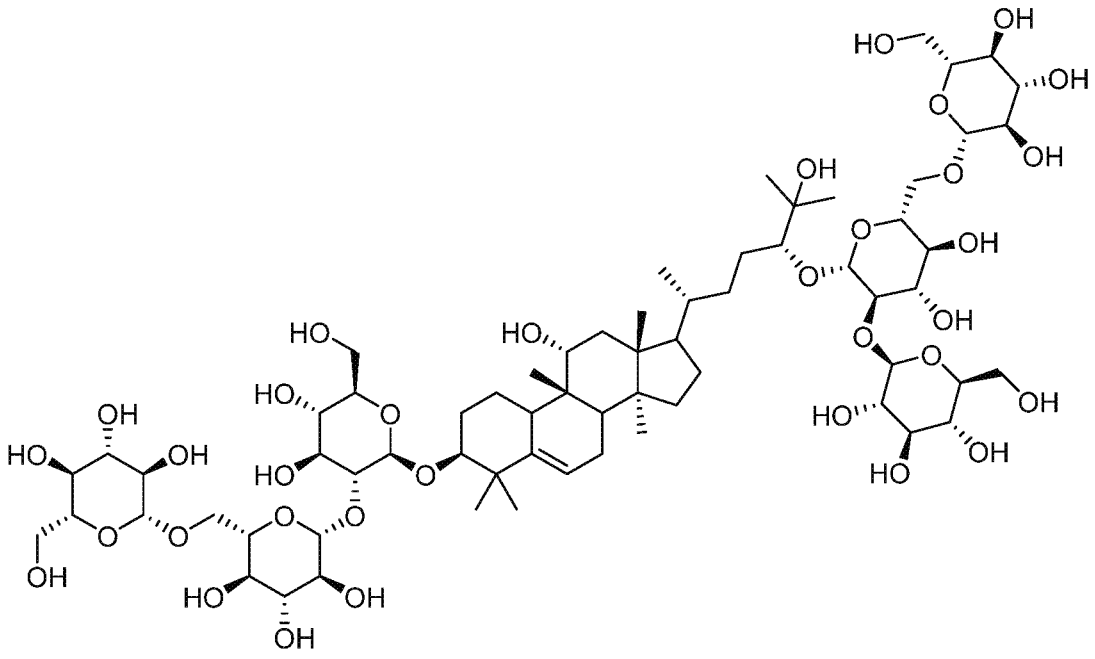
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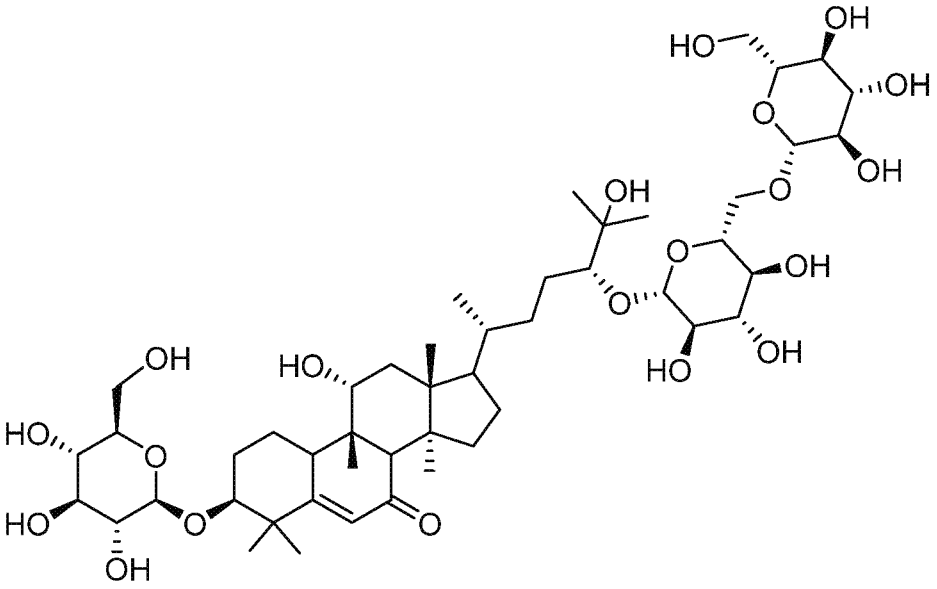
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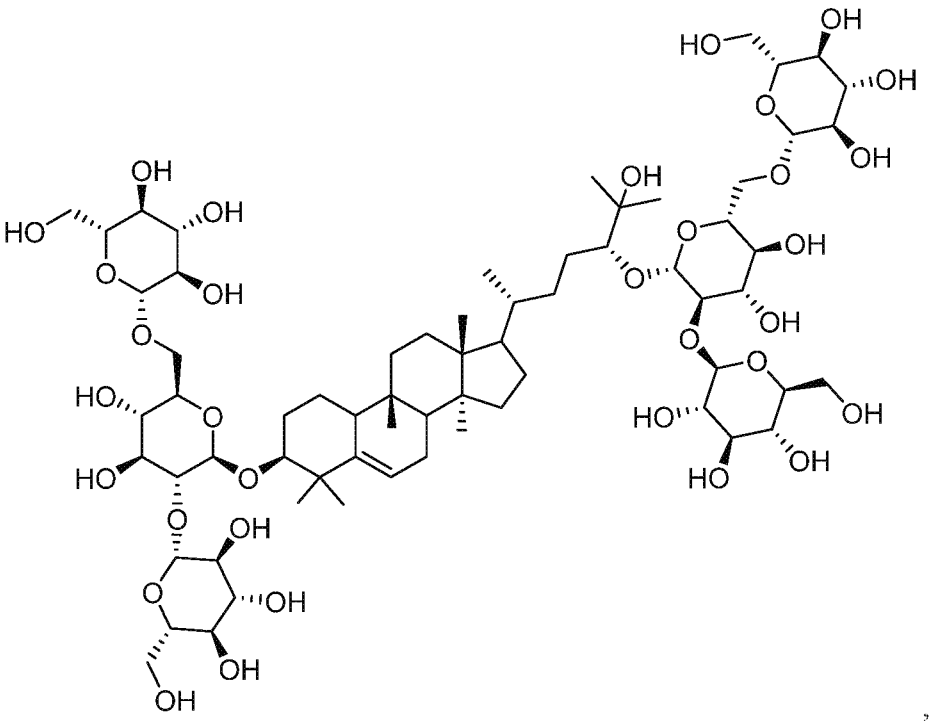


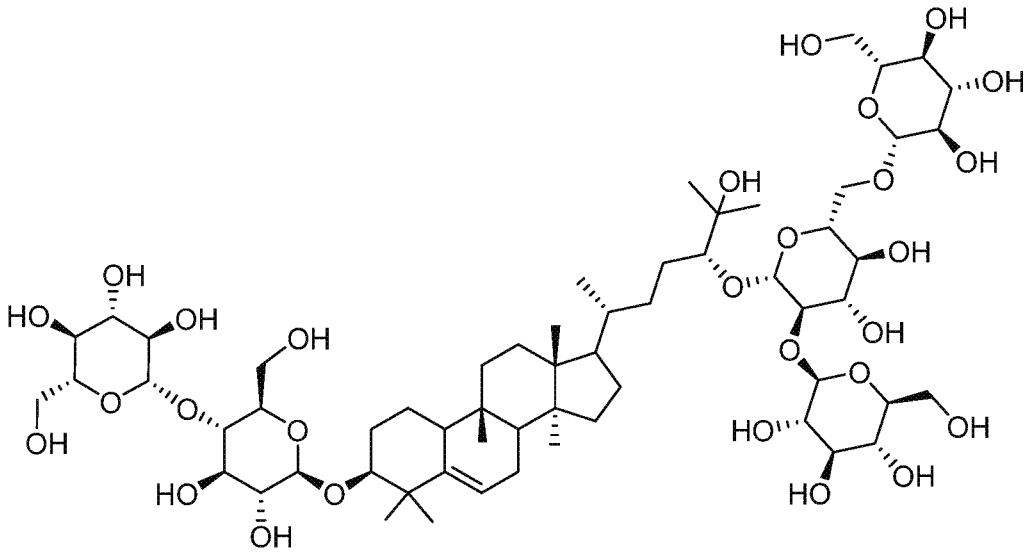
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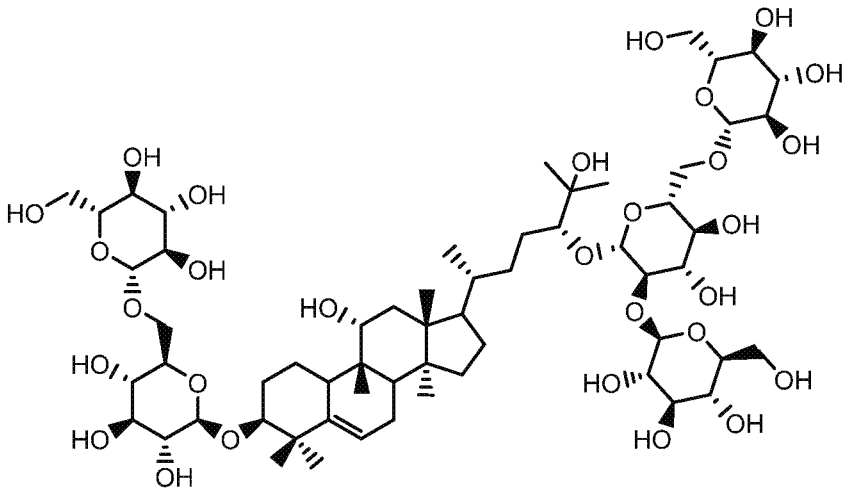


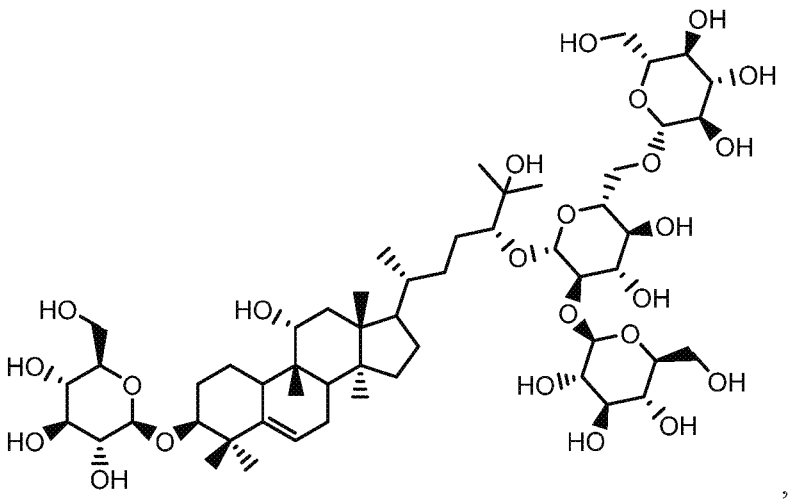
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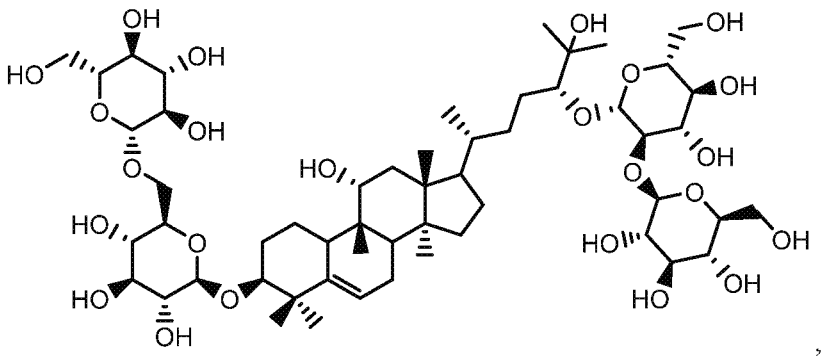




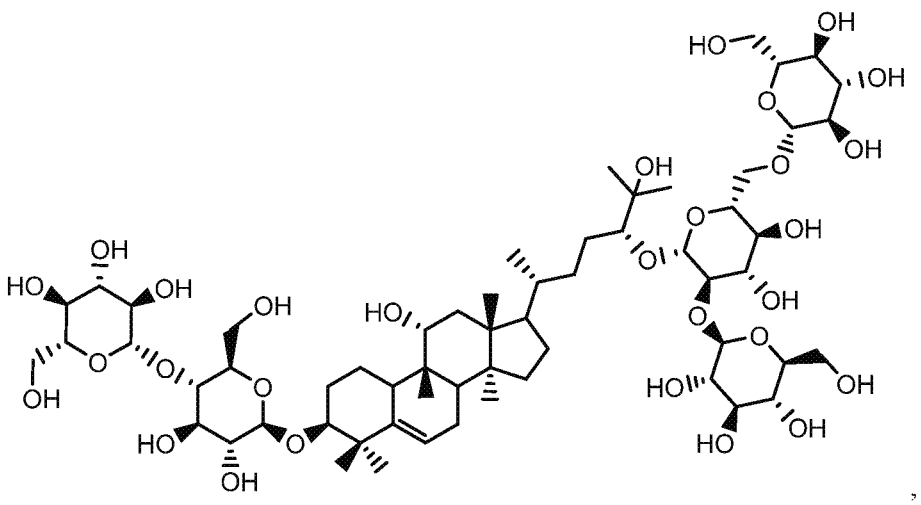




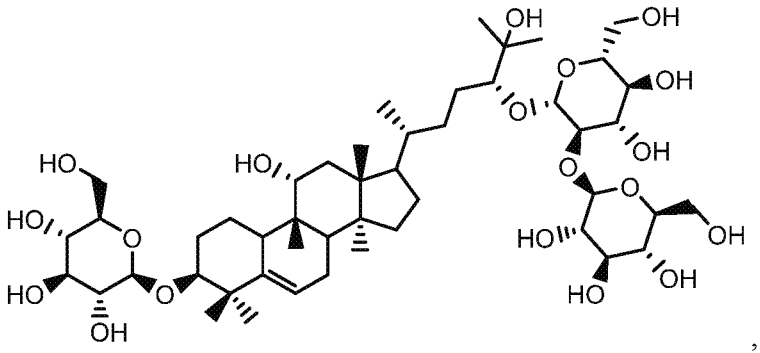




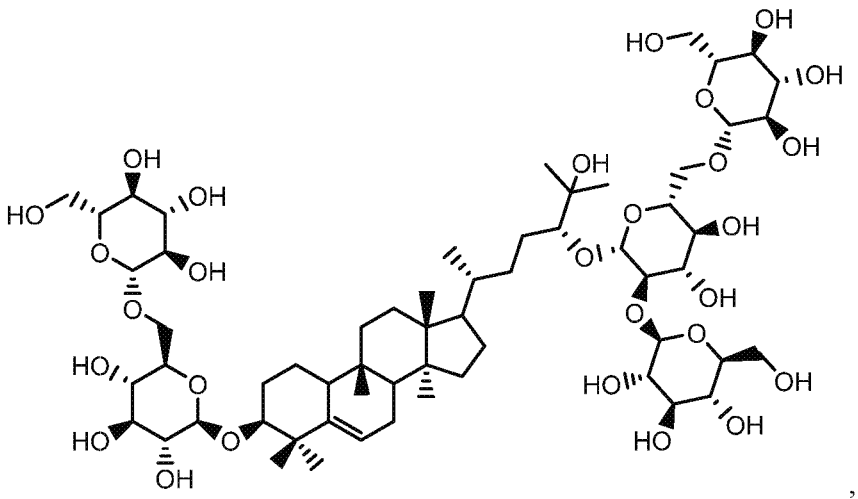
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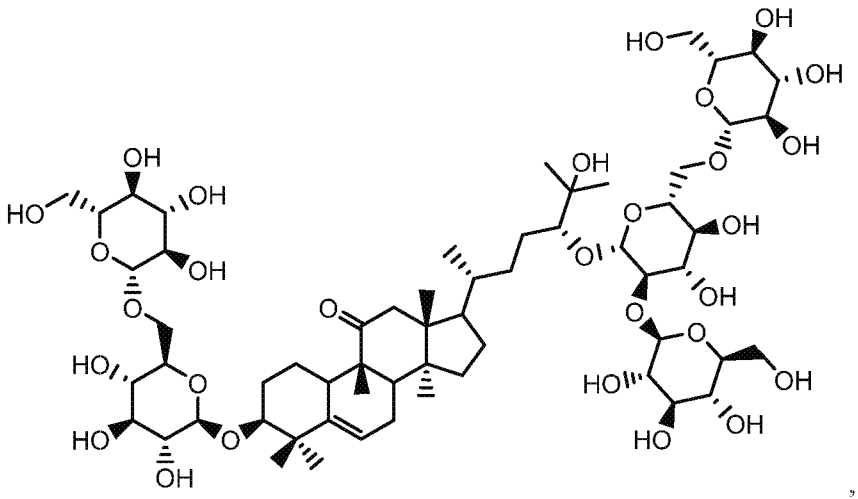
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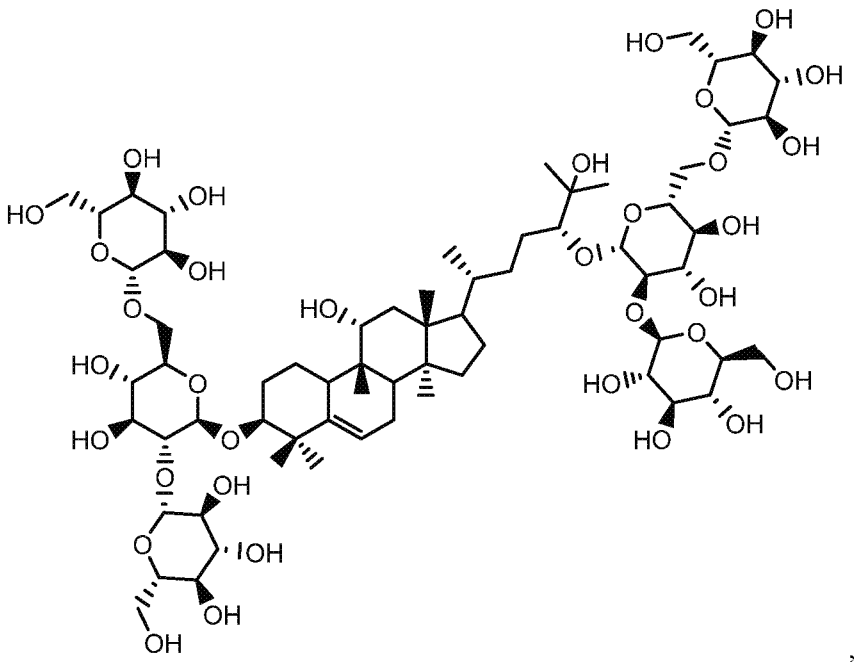
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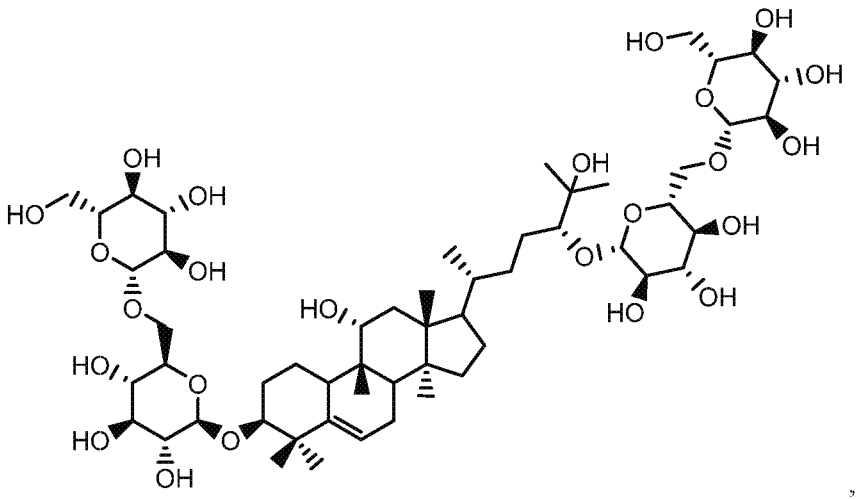


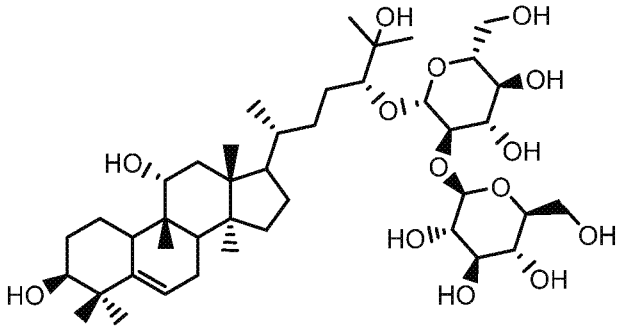
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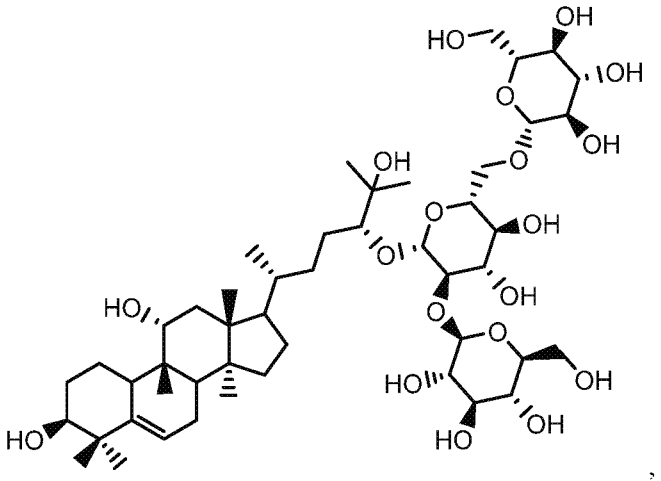


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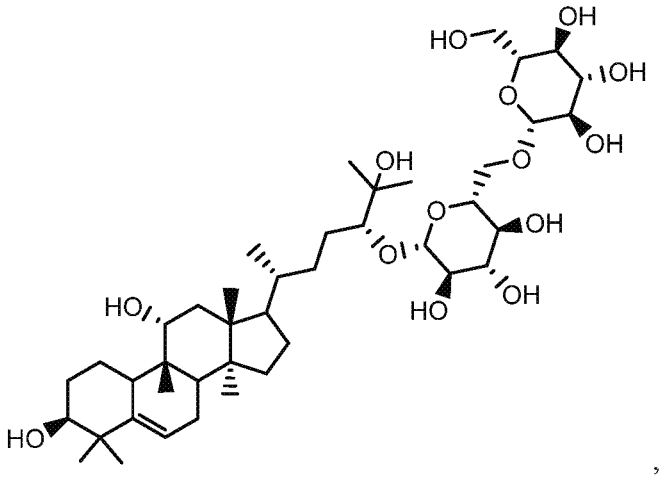




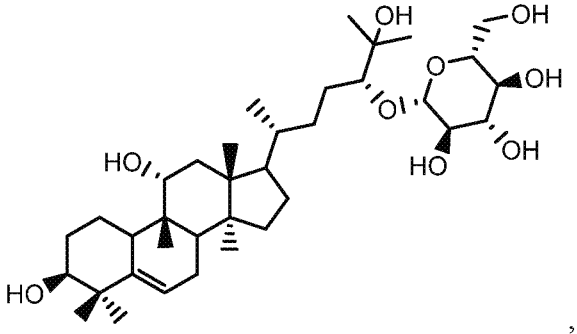




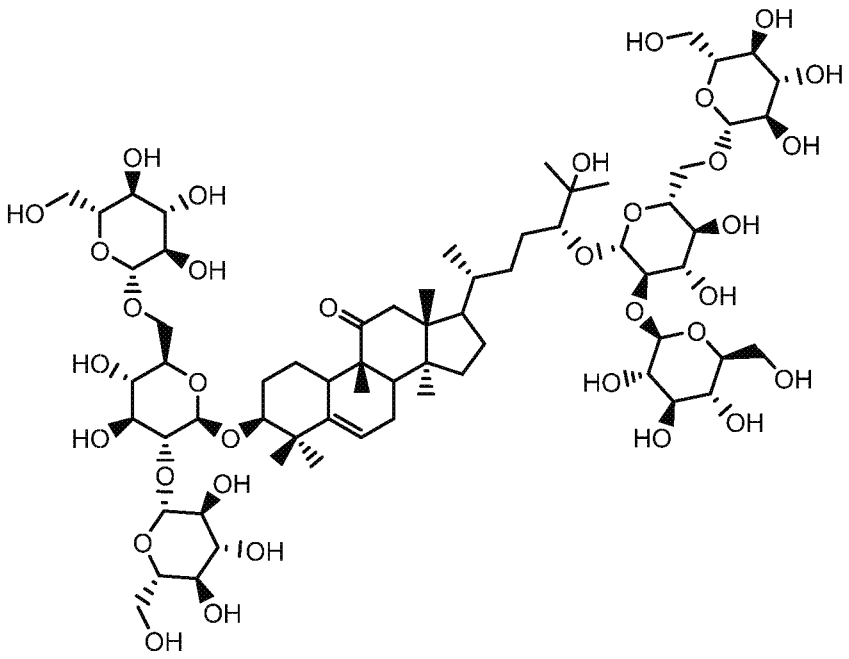
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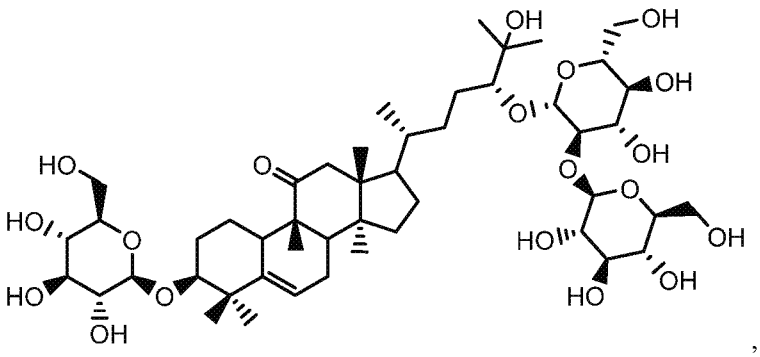
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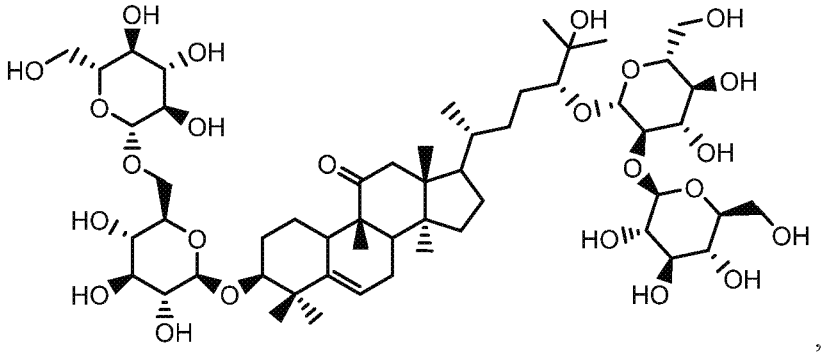
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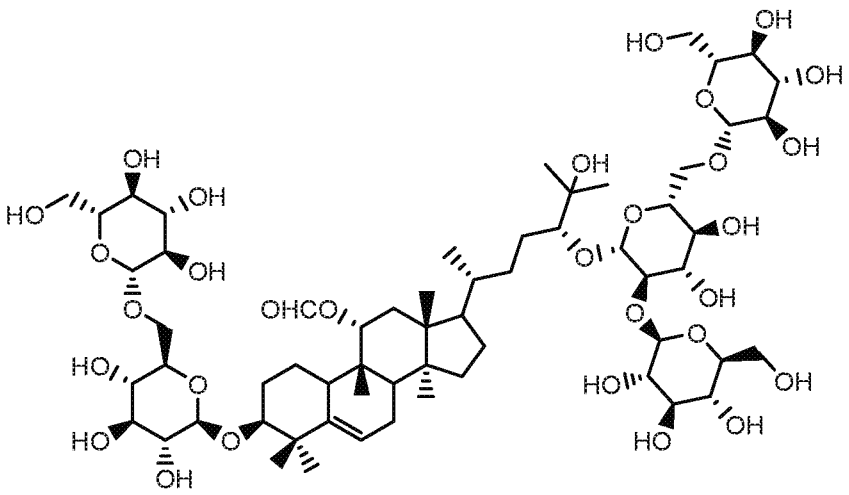
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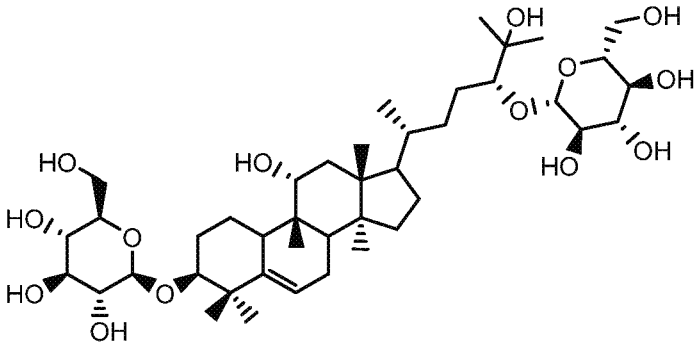
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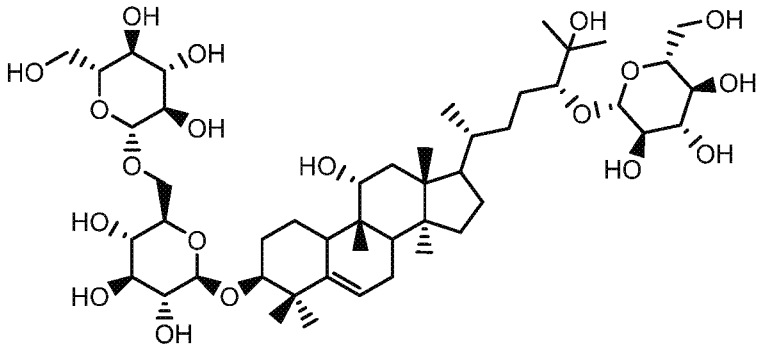
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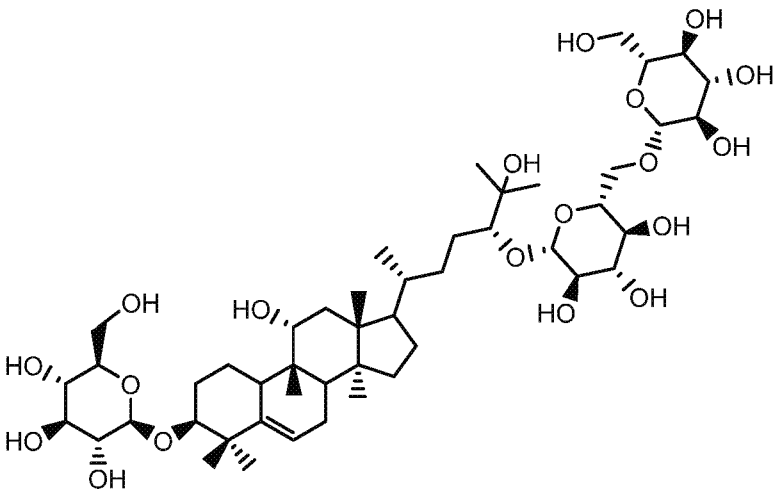
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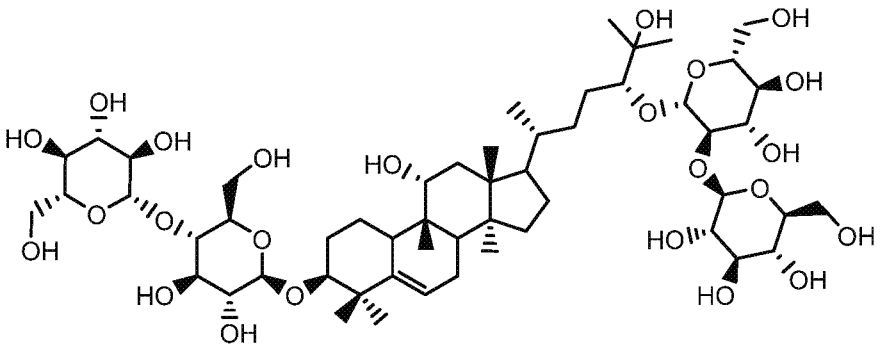
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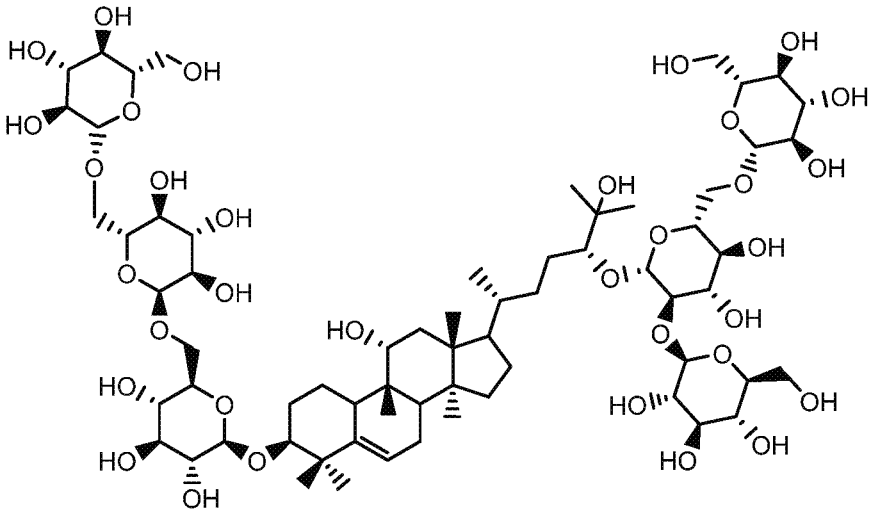
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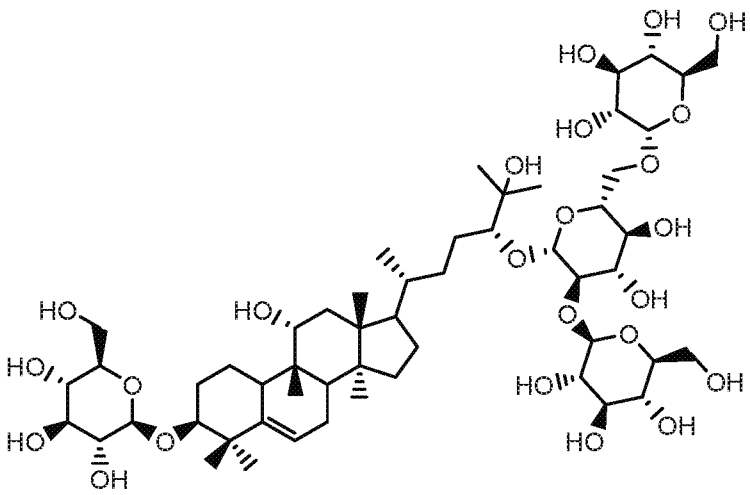
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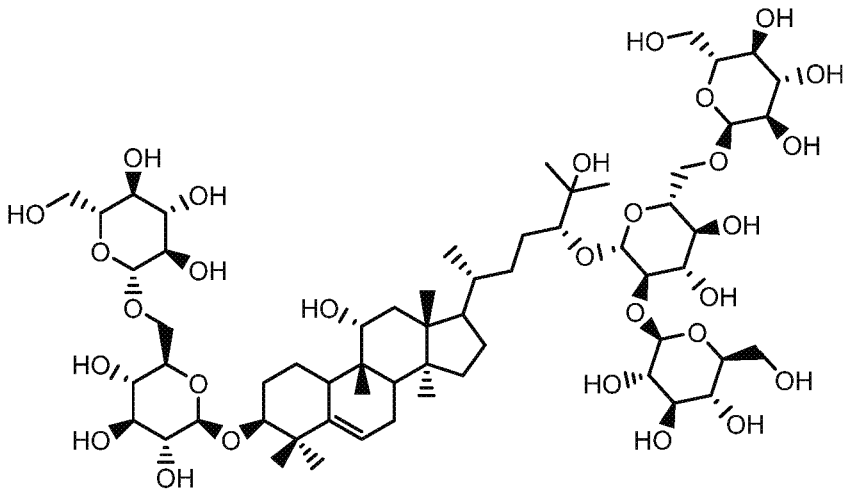
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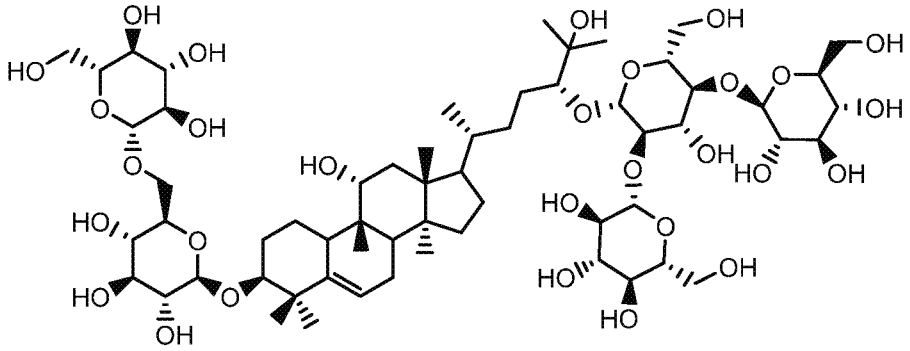
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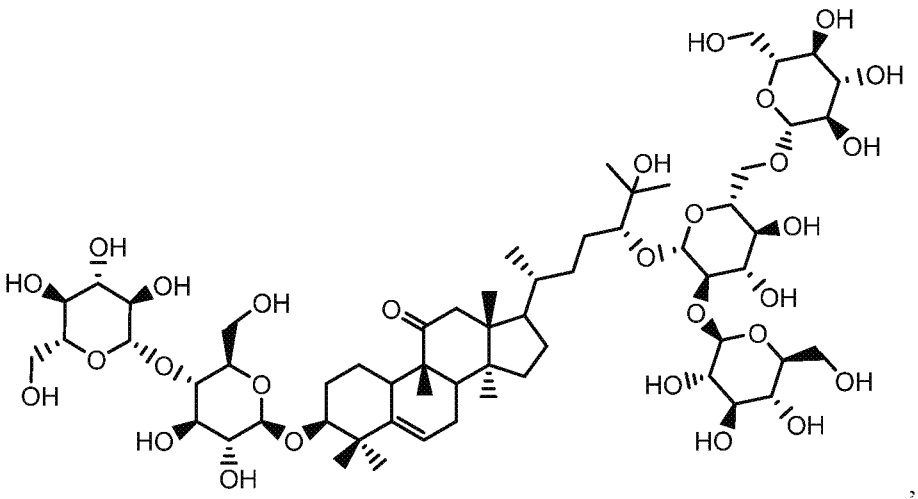
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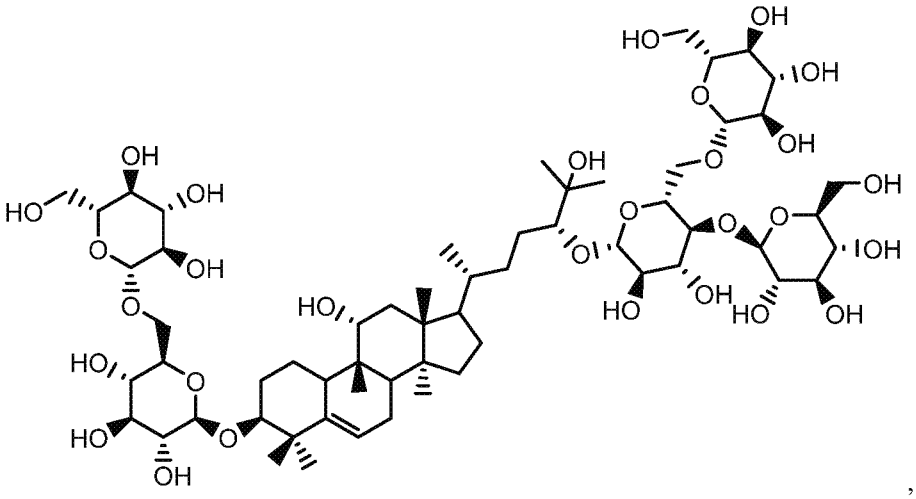
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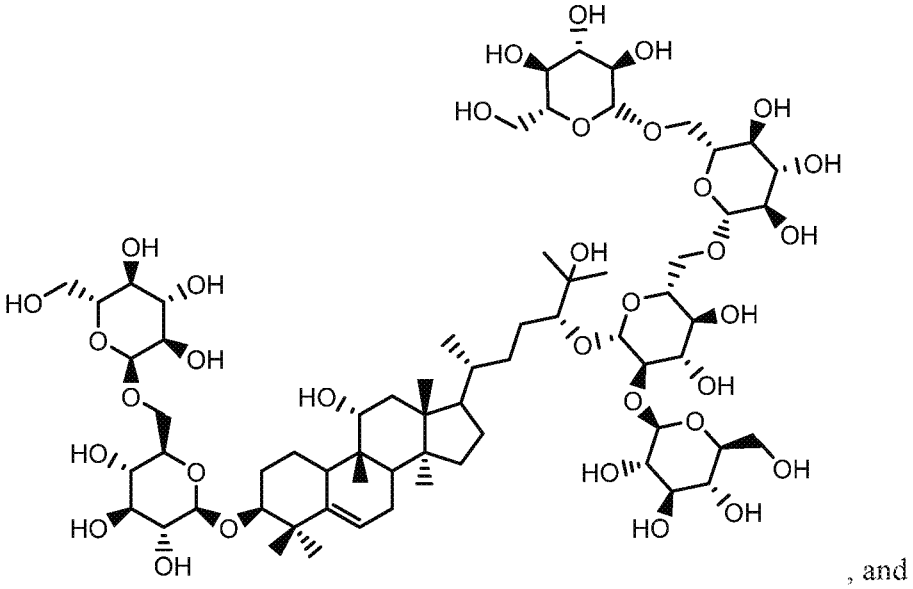
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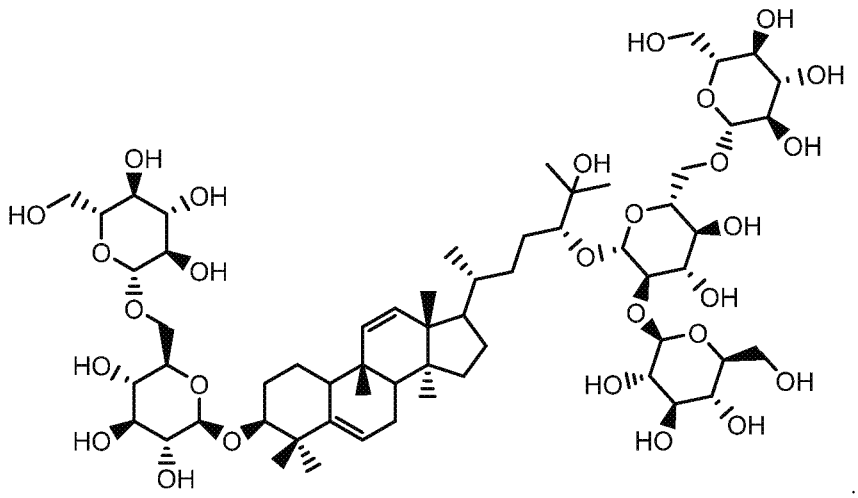
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[0144] In some embodiments, the compounds of Formula (I) are selected from one of Compounds 1-35 (described below), or salts thereof. In some embodiments, the compounds of Formula (I), or salts therof, are isolated and is in solid form. In some embodiments, the solid form is amorphous. In other embodiments, the solid form is crystalline. In some embodiments, the compound is in the form of a lyophile. In some embodiments the isolated compounds in form of a lyophile is one or more of Compounds 1-35, or salts thereof.

[0145] In some embodiments, the compound of Formula (I) is Compound 1. In some embodiments, the compound of Formula (I) is Compound 2. In some embodiments, the compound of Formula (I) is Compound 3. In some embodiments, the compound of Formula (I) is Compound 4. In some embodiments, the compound of Formula (I) is Compound 5. In some embodiments, the compound of Formula (I) is Compound 6. In some embodiments, the compound of Formula (I) is Compound 7. In some embodiments, the compound of Formula (I) is Compound 8. In some embodiments, the compound of Formula (I) is Compound 9. In some embodiments, the compound of Formula (I) is Compound 10.

[0146] In some embodiments, the compound of Formula (I) is Compound 11. In some embodiments, the compound of Formula (I) is Compound 12. In some embodiments, the compound of Formula (I) is Compound 13. In some embodiments, the compound of Formula (I) is Compound 14. In some embodiments, the compound of Formula (I) is Compound 15. In some embodiments, the compound of Formula (I) is Compound 16. In some embodiments, the compound of Formula (I) is Compound 17. In some embodiments, the compound of Formula (I)

is Compound 18. In some embodiments, the compound of Formula (I) is Compound 19. In some embodiments, the compound of Formula (I) is Compound 20.

[0147] In some embodiments, the compound of Formula (I) is Compound 21. In some embodiments, the compound of Formula (I) is Compound 22. In some embodiments, the compound of Formula (I) is Compound 23. In some embodiments, the compound of Formula (I) is Compound 24. In some embodiments, the compound of Formula (I) is Compound 25. In some embodiments, the compound of Formula (I) is Compound 26. In some embodiments, the compound of Formula (I) is Compound 27. In some embodiments, the compound of Formula (I) is Compound 28. In some embodiments, the compound of Formula (I) is Compound 29. In some embodiments, the compound of Formula (I) is Compound 30.

[0148] In some embodiments, the compound of Formula (I) is Compound 31. In some embodiments, the compound of Formula (I) is Compound 32. In some embodiments, the compound of Formula (I) is Compound 33. In some embodiments, the compound of Formula (I) is Compound 34. In some embodiments, the compound of Formula (I) is Compound 35.

[0149] Where the compounds disclosed herein have at least one chiral center, they may exist as individual enantiomers and diastereomers or as mixtures of such isomers, including racemates. Separation of the individual isomers or selective synthesis of the individual isomers is accomplished by application of various methods which are well known to practitioners in the art. Unless otherwise indicated (e.g., where the stereochemistry of a chiral center is explicitly shown), all such isomers and mixtures thereof are included in the scope of the compounds disclosed herein. Furthermore, compounds disclosed herein may exist in one or more crystalline or amorphous forms. Unless otherwise indicated, all such forms are included in the scope of the compounds disclosed herein including any polymorphic forms. In addition, some of the compounds disclosed herein may form solvates with water (i.e., hydrates) or common organic solvents. Unless otherwise indicated, such solvates are included in the scope of the compounds disclosed herein.

[0150] The skilled artisan will recognize that some structures described herein may be resonance forms or tautomers of compounds that may be fairly represented by other chemical structures, even when kinetically; the artisan recognizes that such structures may only represent a very small portion of a sample of such compound(s). Such compounds are considered within the

scope of the structures depicted, though such resonance forms or tautomers are not represented herein.

[0151] Isotopes may be present in the compounds described. Each chemical element as represented in a compound structure may include any isotope of said element. For example, in a compound structure a hydrogen atom may be explicitly disclosed or understood to be present in the compound. At any position of the compound that a hydrogen atom may be present, the hydrogen atom can be any isotope of hydrogen, including but not limited to hydrogen-1 (protium) and hydrogen-2 (deuterium). Thus, reference herein to a compound encompasses all potential isotopic forms unless the context clearly dictates otherwise. In some embodiments, compounds described herein are enrinched in one or more isotopes relative to the natural prevlance of such isotopes. In some embodiments, the compounds described herein are enriched in deuterium. For example, in some embodiments, greater than 0.0312% of hydrogen atoms in the compounds described herein are deuterium. In various embodiments, greater than 0.05%, 0.08%, or 0.1% of hydrogen atoms in the compounds described herein are deuterium.

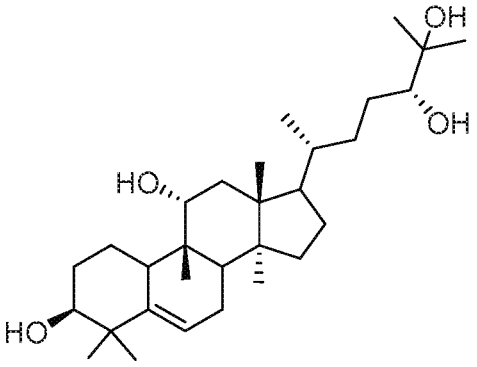
[0152] In some embodiments, the compounds disclosed herein are capable of forming acid and/or base salts by virtue of the presence of amino and/or carboxyl groups or groups similar thereto. Physiologically acceptable acid addition salts can be formed with inorganic acids and organic acids. Inorganic acids from which salts can be derived include, for example, hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid, and the like. Organic acids from which salts can be derived include, for example, acetic acid, propionic acid, glycolic acid, pyruvic acid, oxalic acid, maleic acid, malonic acid, succinic acid, fumaric acid, tartaric acid, citric acid, benzoic acid, cinnamic acid, mandelic acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid, and the like. Physiologically acceptable salts can be formed using inorganic and organic bases. Inorganic bases from which salts can be derived include, for example, bases that contain sodium, potassium, lithium, ammonium, calcium, magnesium, iron, zinc, copper, manganese, aluminum, and the like; particularly preferred are the ammonium, potassium, sodium, calcium and magnesium salts. In some embodiments, treatment of the compounds disclosed herein with an inorganic base results in loss of a labile hydrogen from the compound to afford the salt form including an inorganic cation such as Li^+, Na^+, K^+, Mg^{2+} and Ca^{2+} and the like. Organic bases from which salts can be

derived include, for example, primary, secondary, and tertiary amines, substituted amines including naturally occurring substituted amines, cyclic amines, basic ion exchange resins, and the like, specifically such as isopropylamine, trimethylamine, diethylamine, triethylamine, tripropylamine, and ethanolamine.

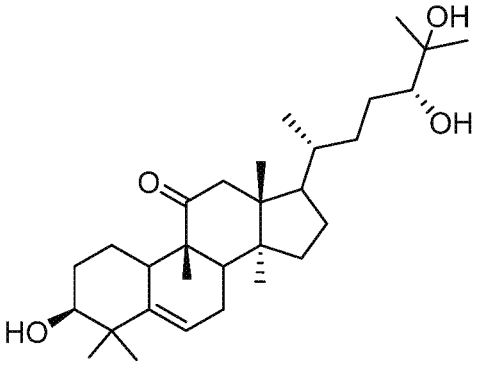
[0153] In some embodiments, the compounds of Formula (I) are substantially isolated. In some embodiments, the compound is in the form of a lyophile. In some embodiments, the compound is crystalline. In some embodiments, the compound is amorphous. In some embodiments, the compounds of Formula (I) are selected from one or more of Compounds 1-35.

Production Compositions

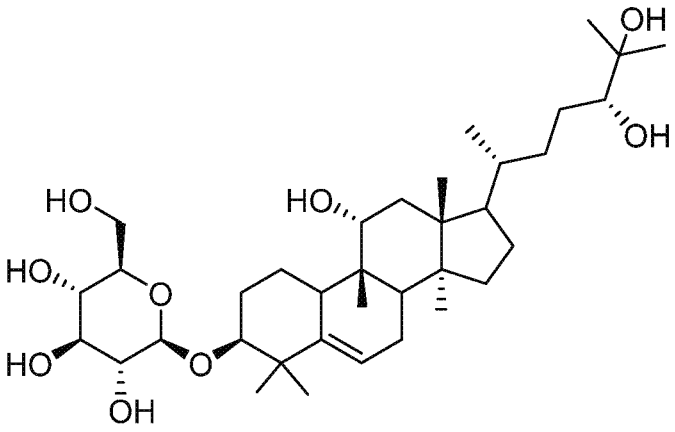
[0154] Some embodiments provide a composition comprising a relatively high content of one or more compounds described herein (e.g., a compound of Formula (I) such as Compound 1-35). For example, upon production of a compound described herein using a production method described herein, a composition may be formed that is enriched in the desired compound, but also contains other compounds. In various embodiments, the composition contains a weight percent greater than 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 98%, or 99% of the desired compound. In some embodiments, the composition comprises one or more additional compound according to Formula (I). In some embodiments, the composition comprises one or more of compounds selected from


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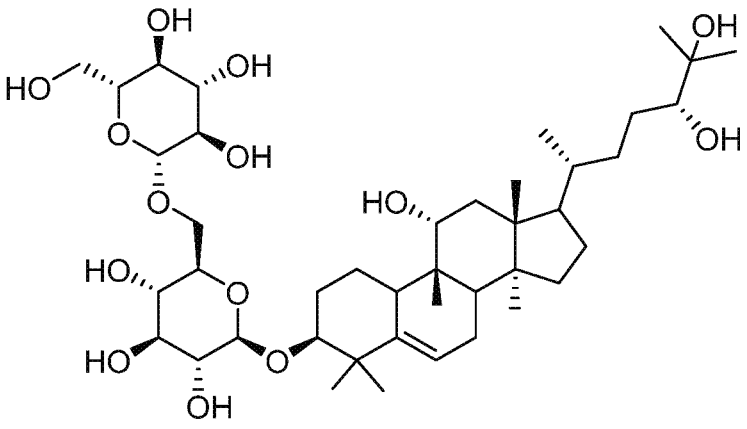
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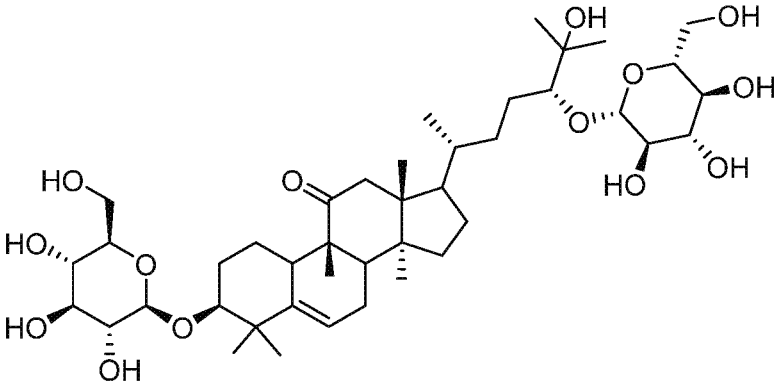
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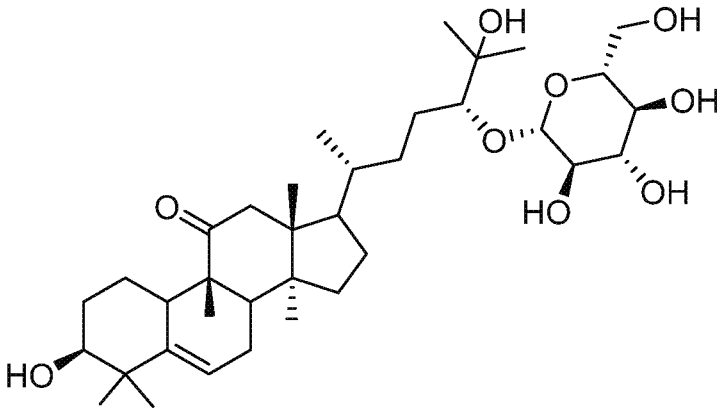
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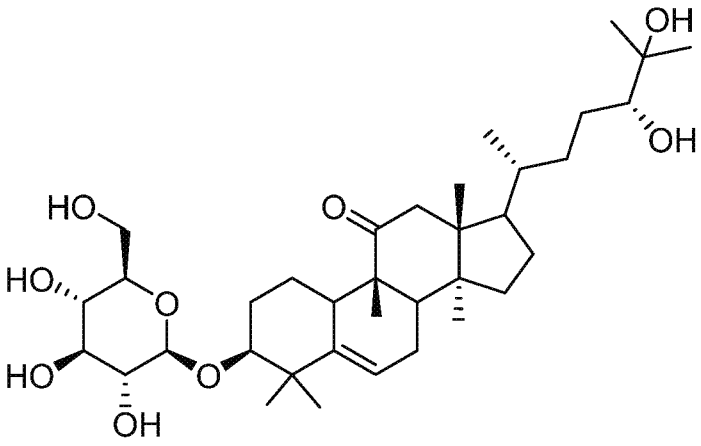
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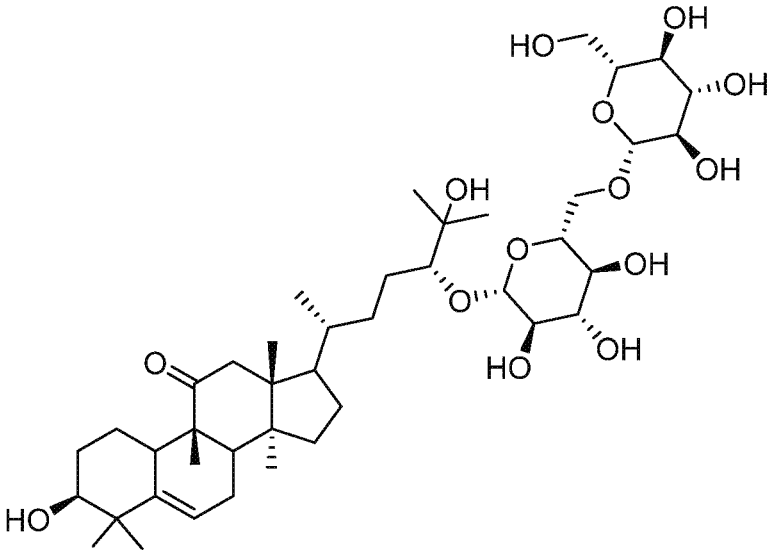
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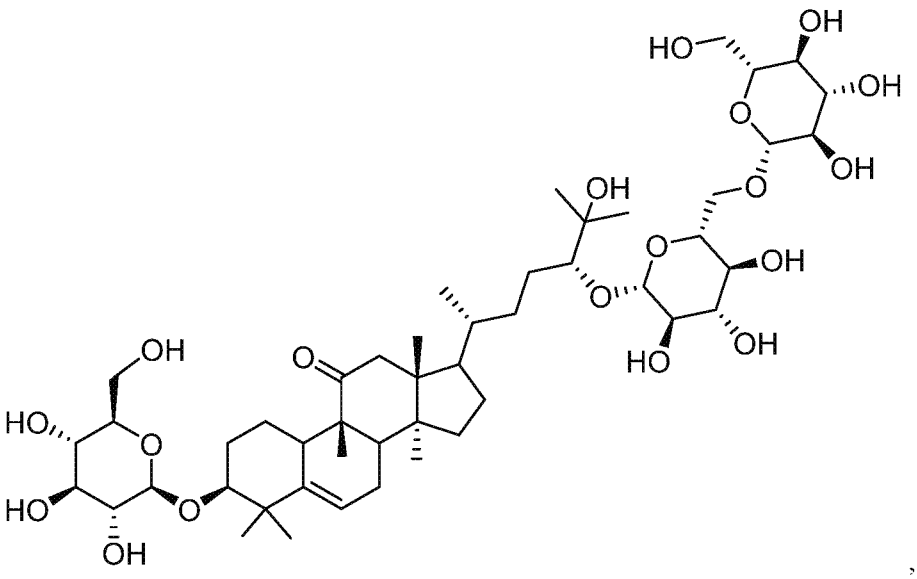


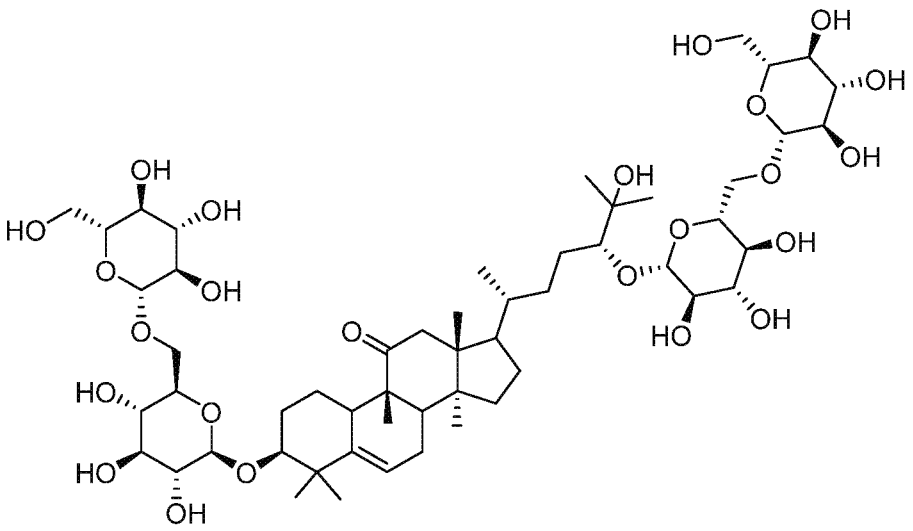
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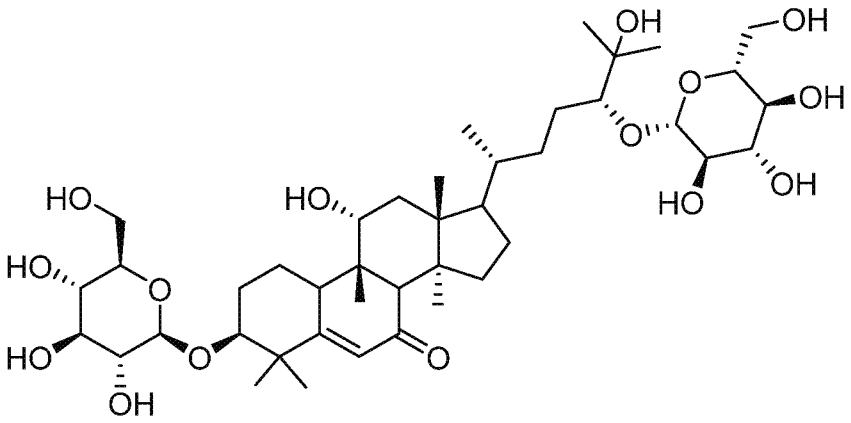


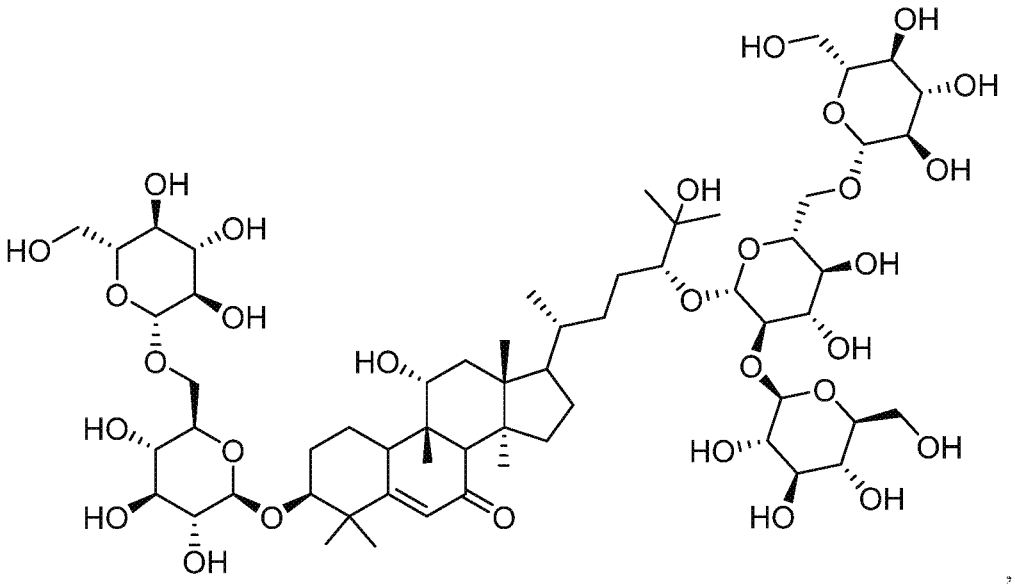
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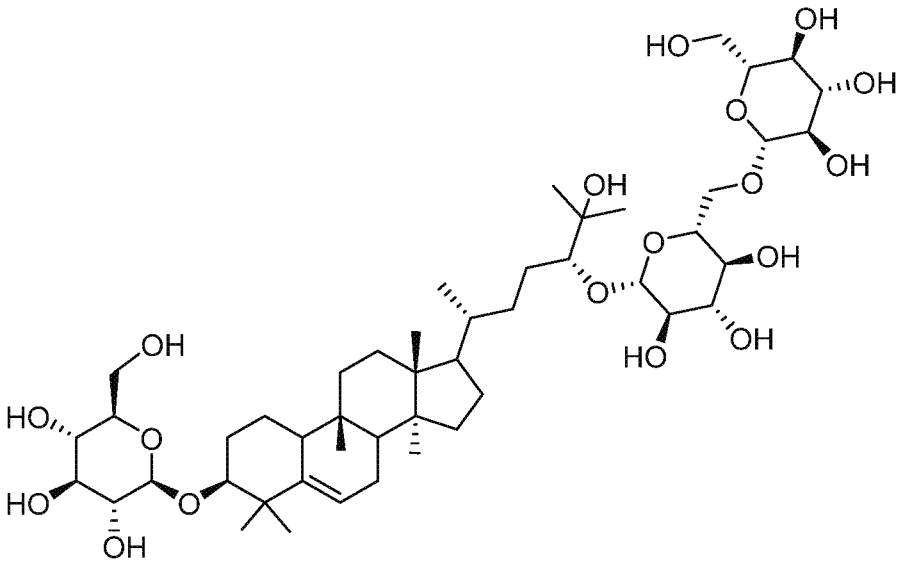


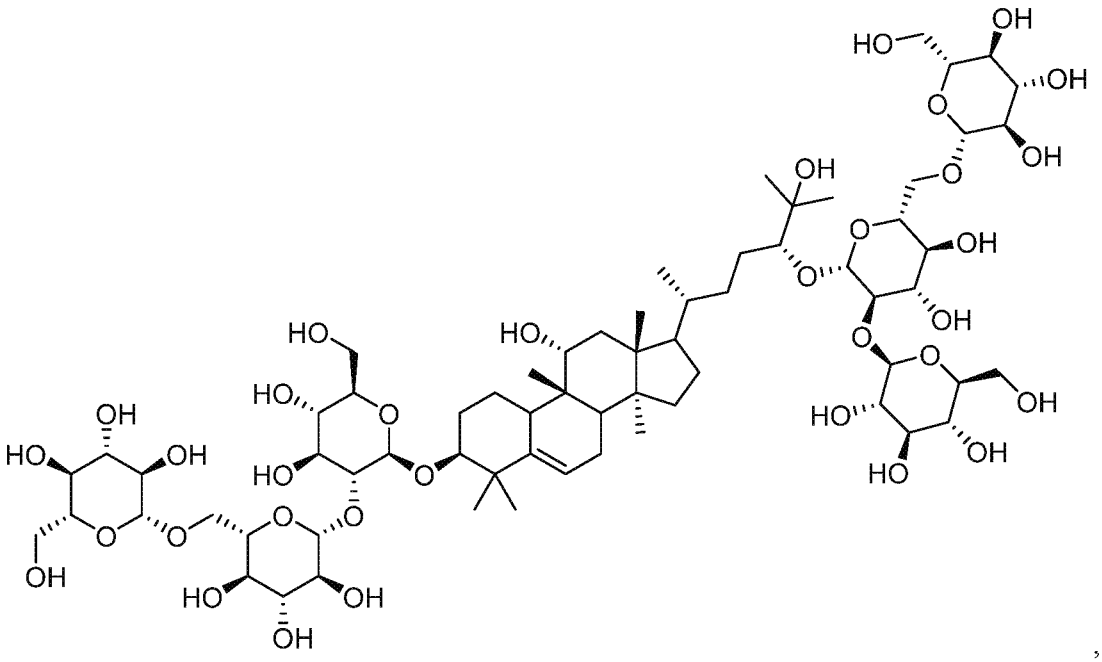


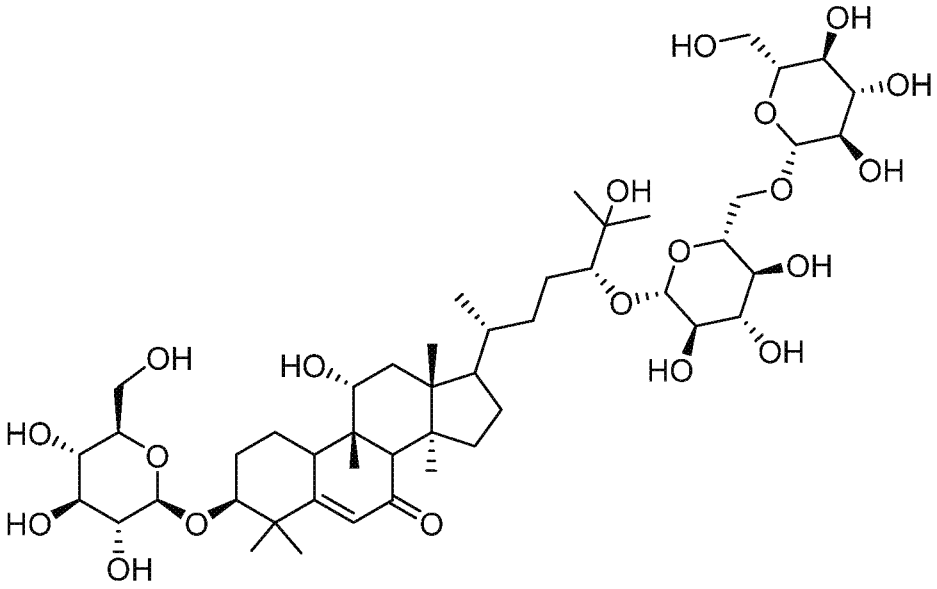


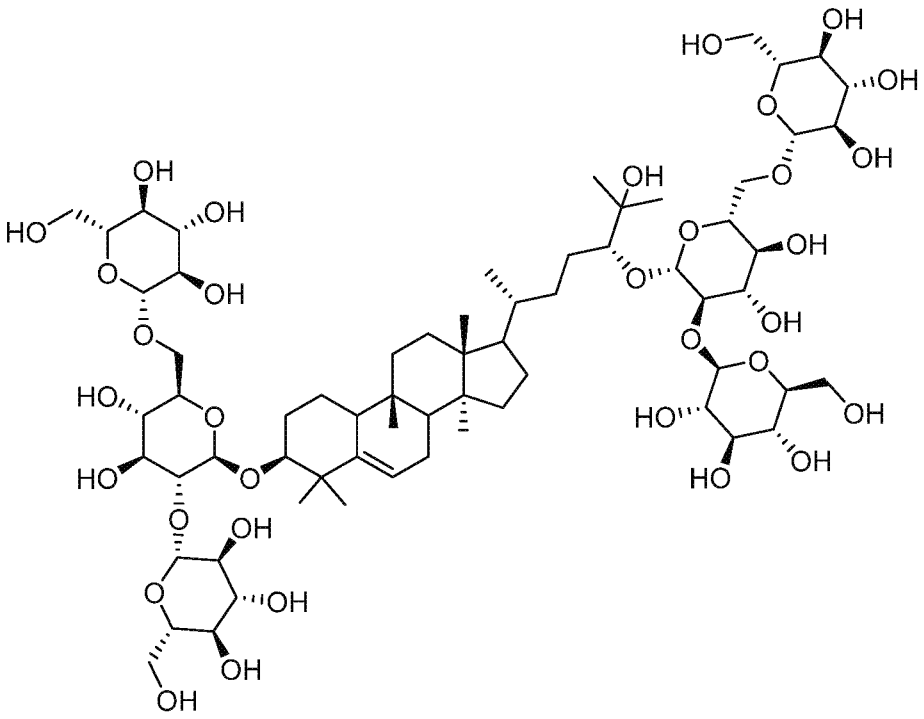


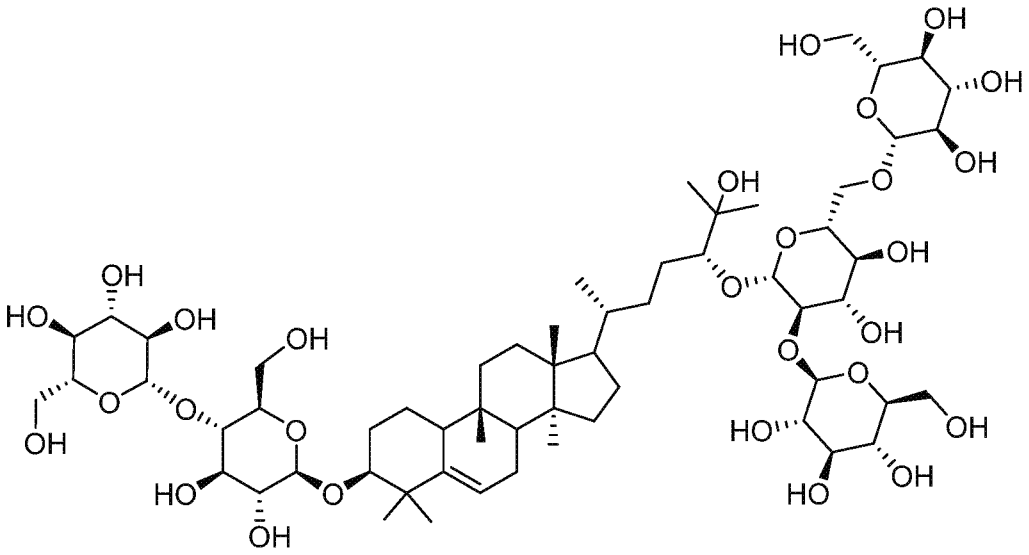




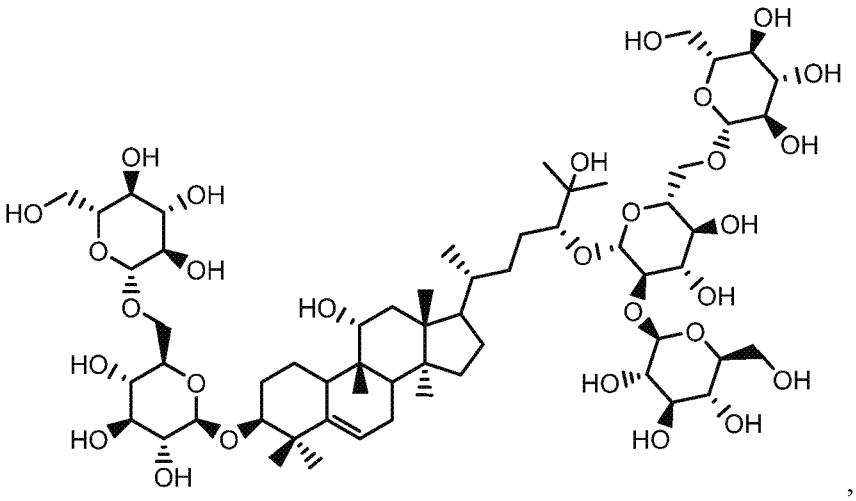




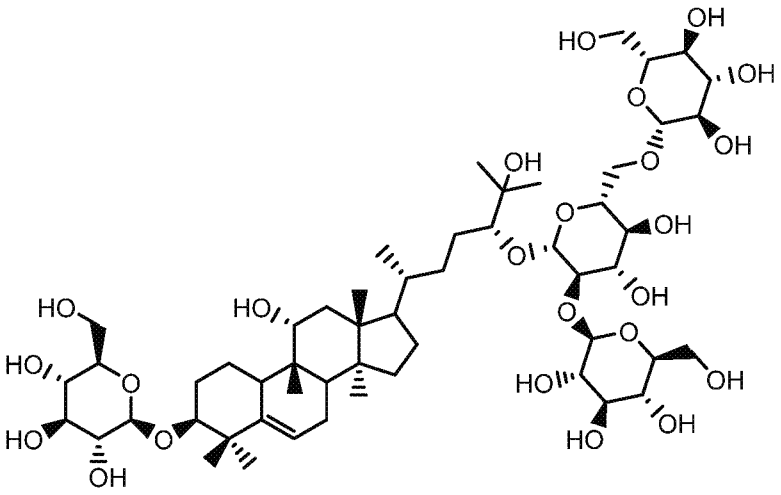




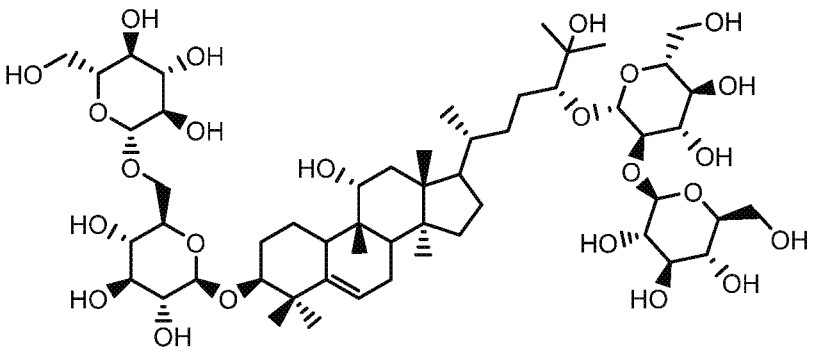
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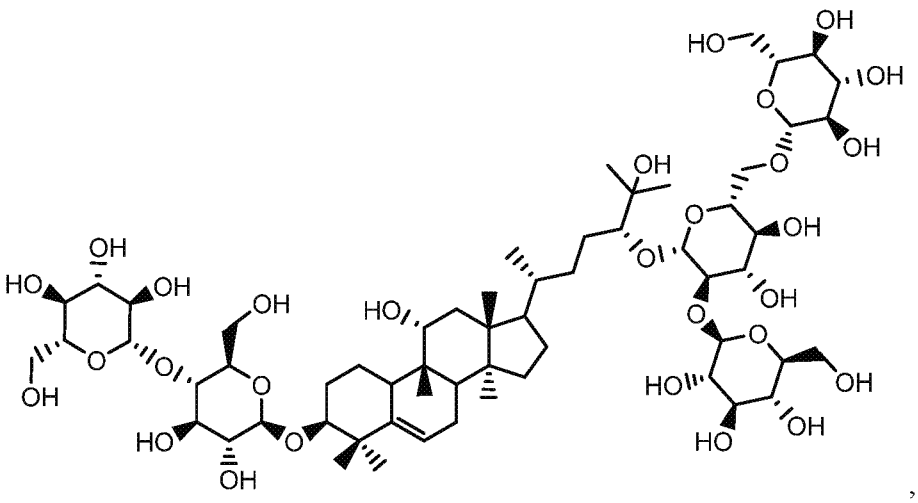
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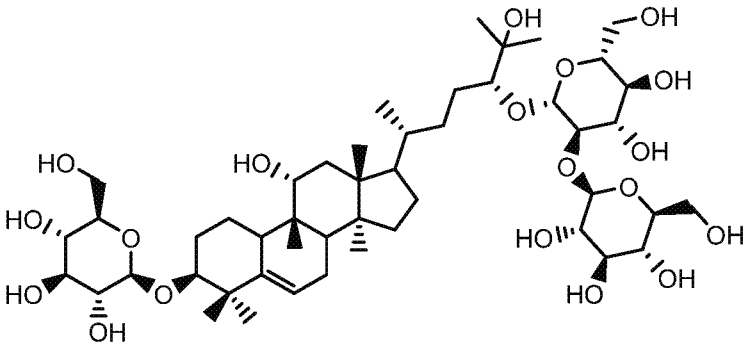
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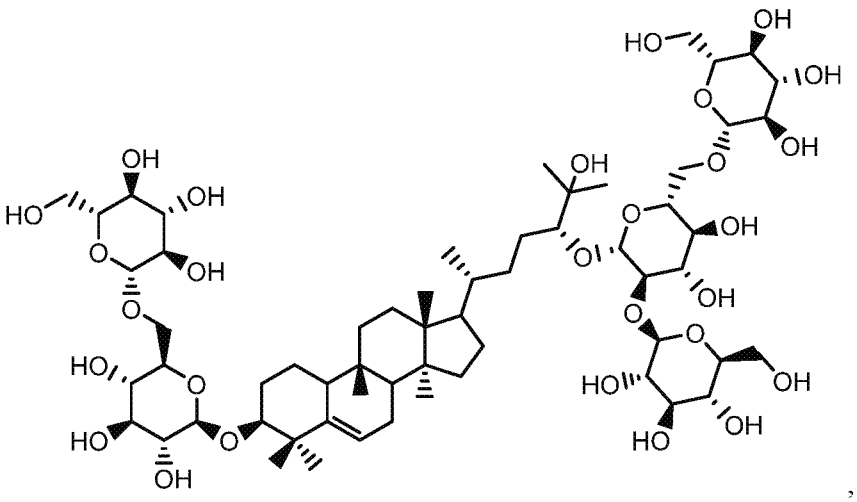
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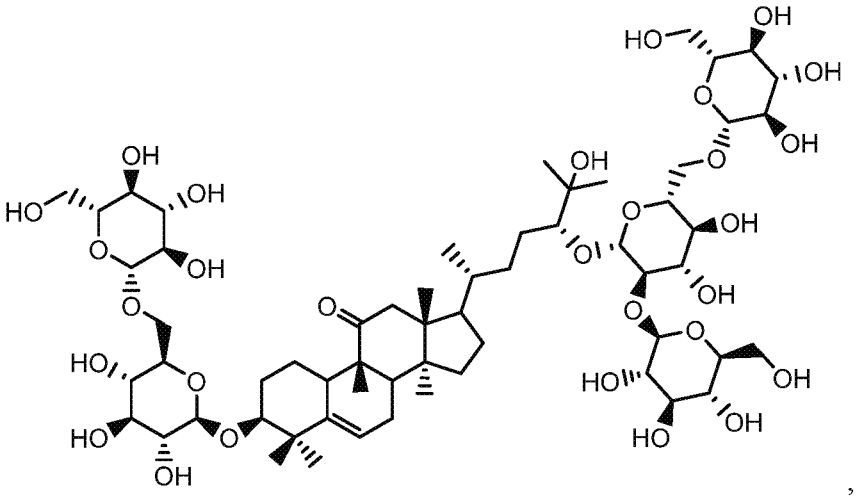
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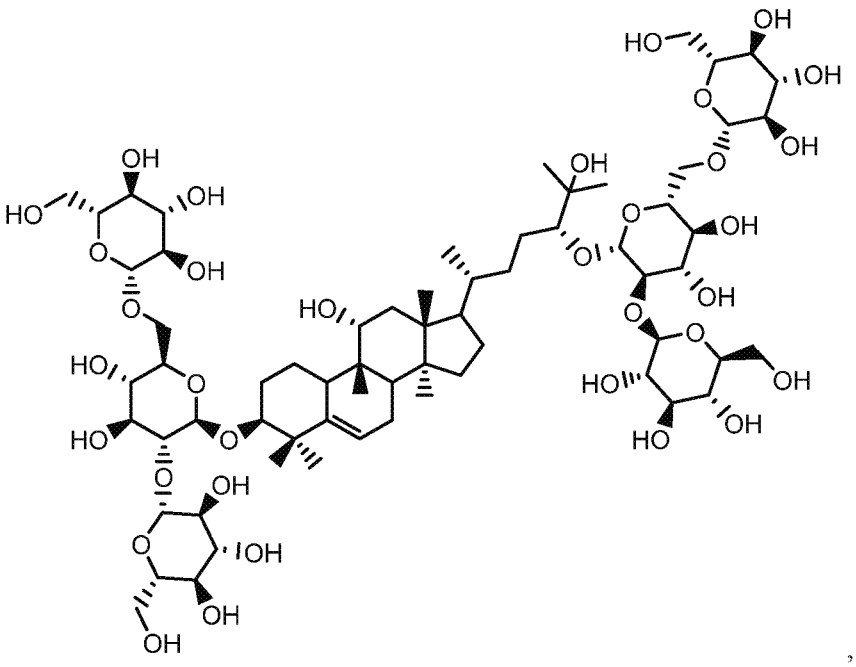
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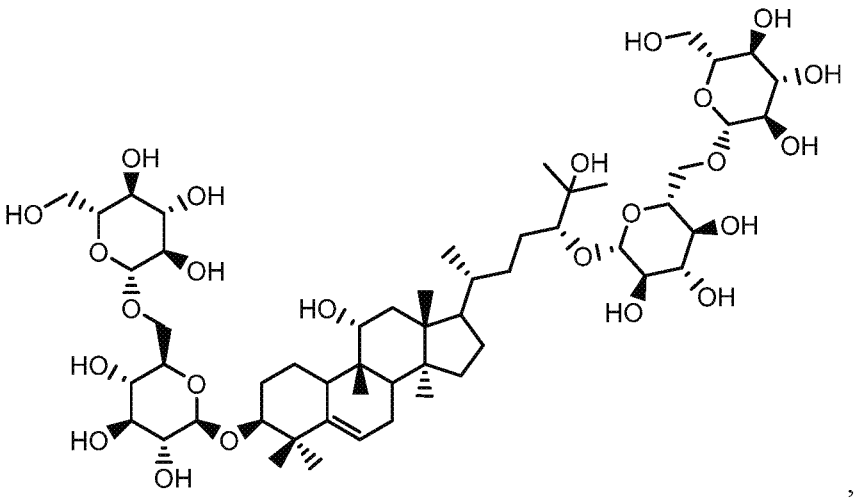
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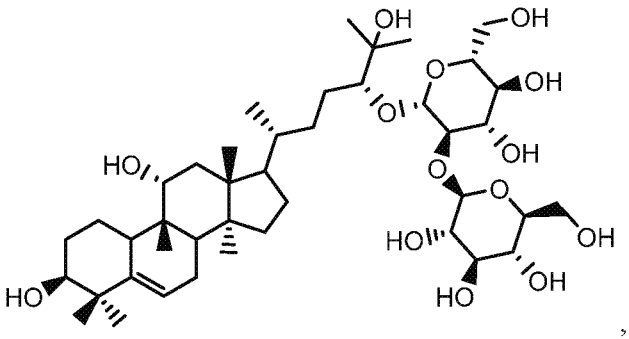
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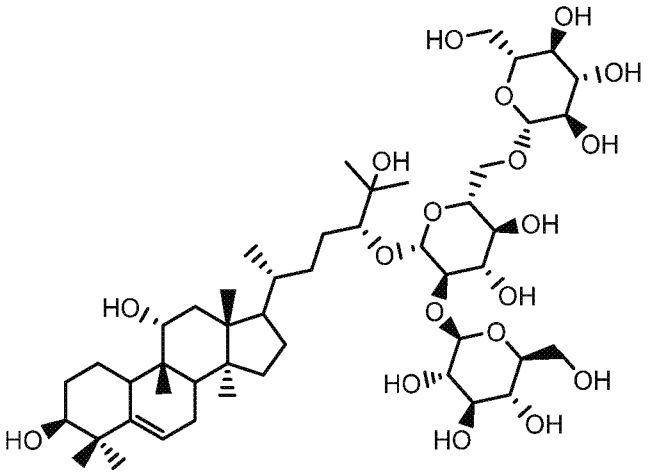
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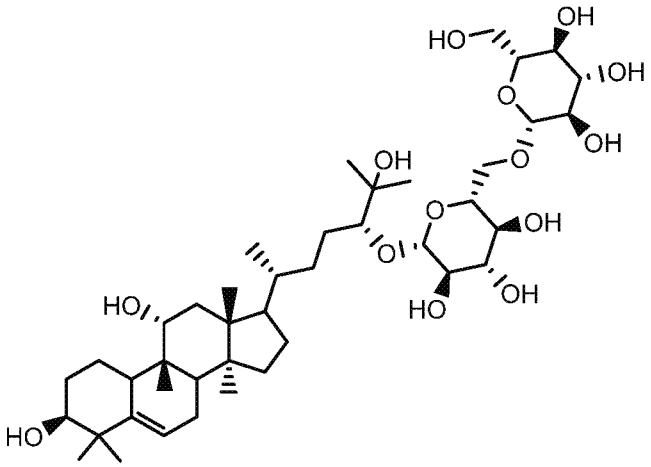
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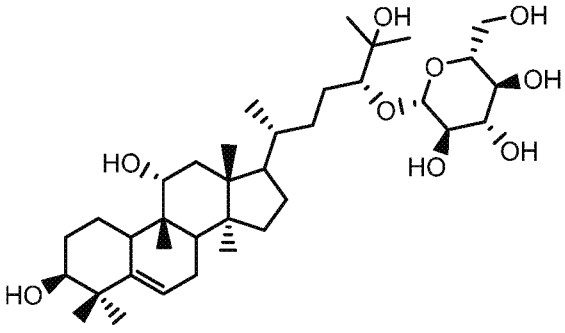
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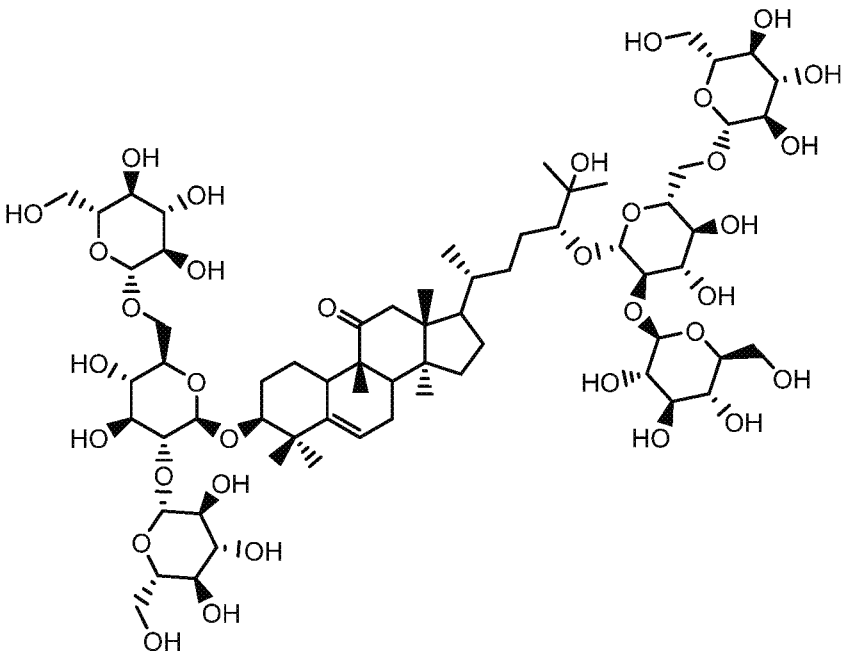
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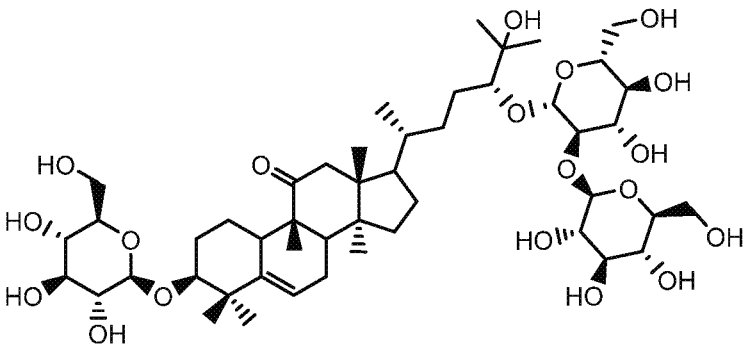
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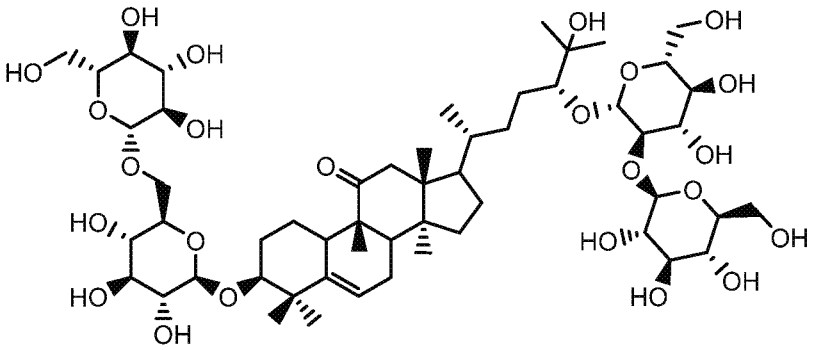
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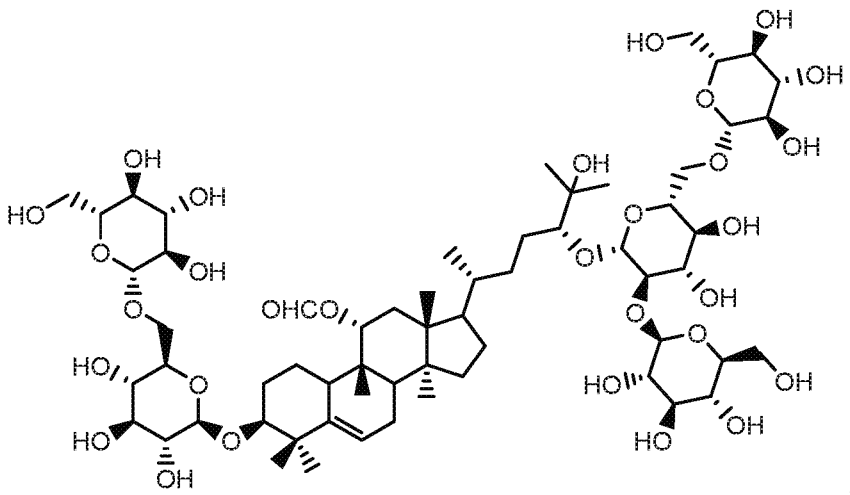
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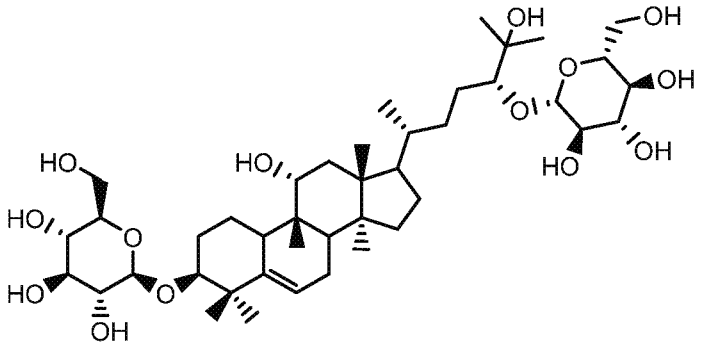
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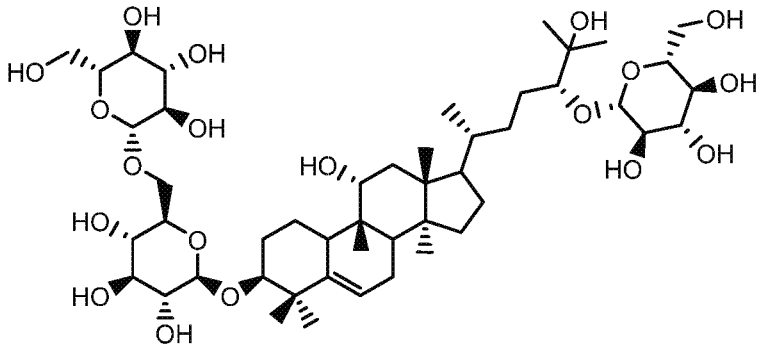
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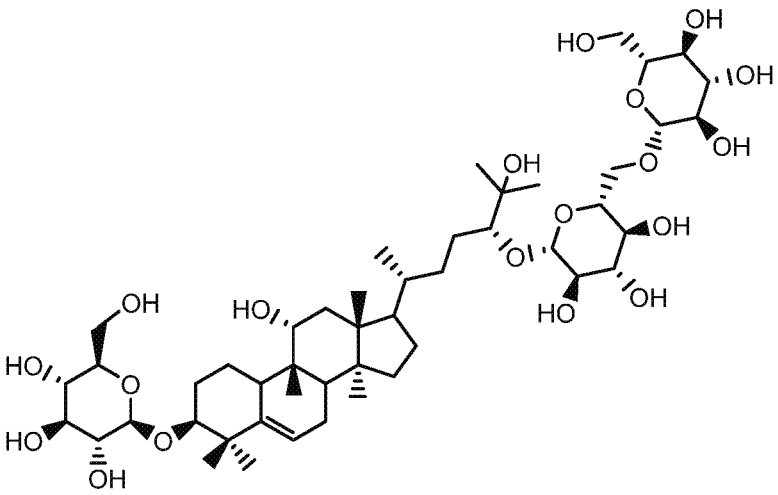
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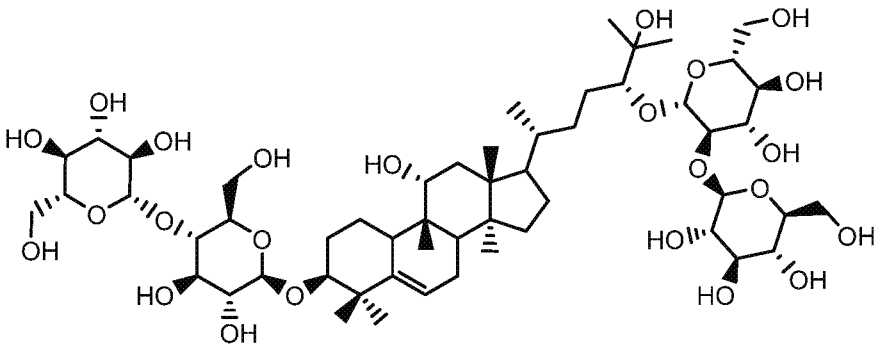
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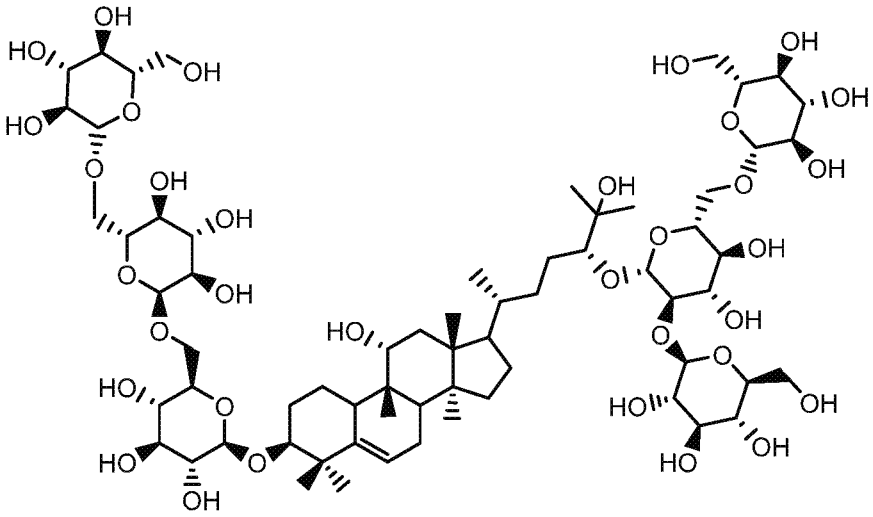
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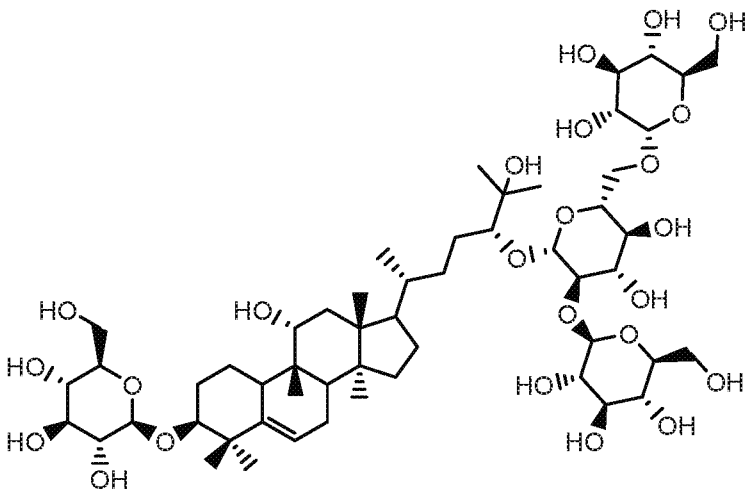
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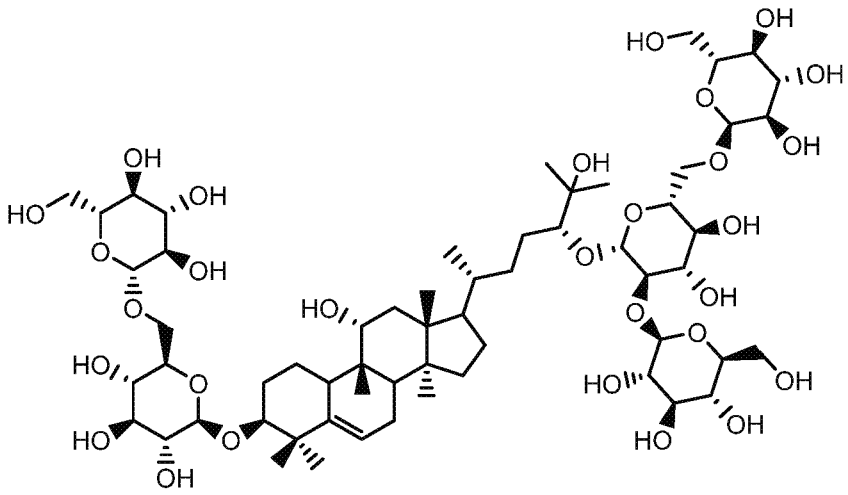
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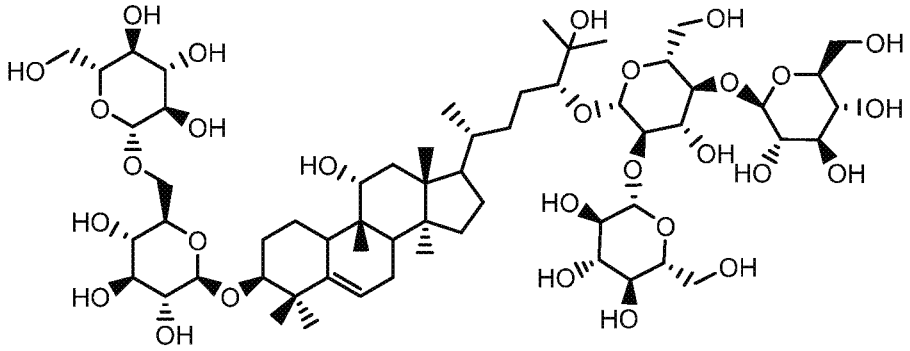
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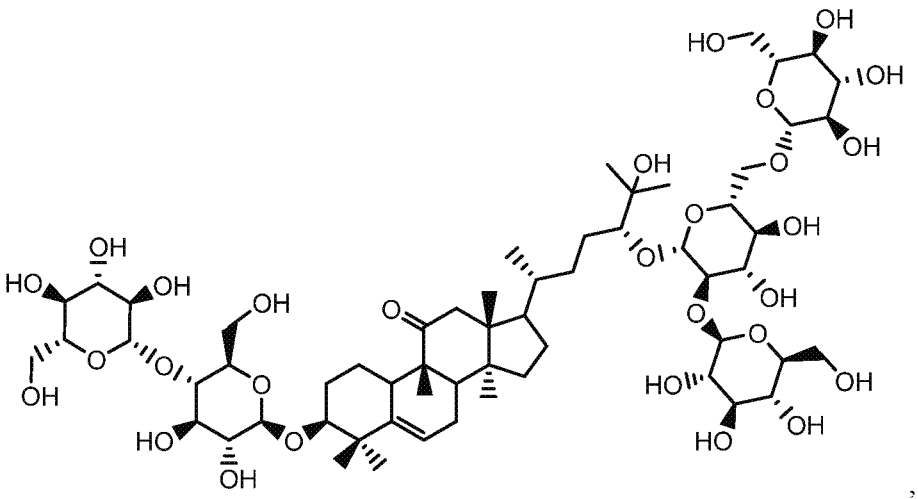
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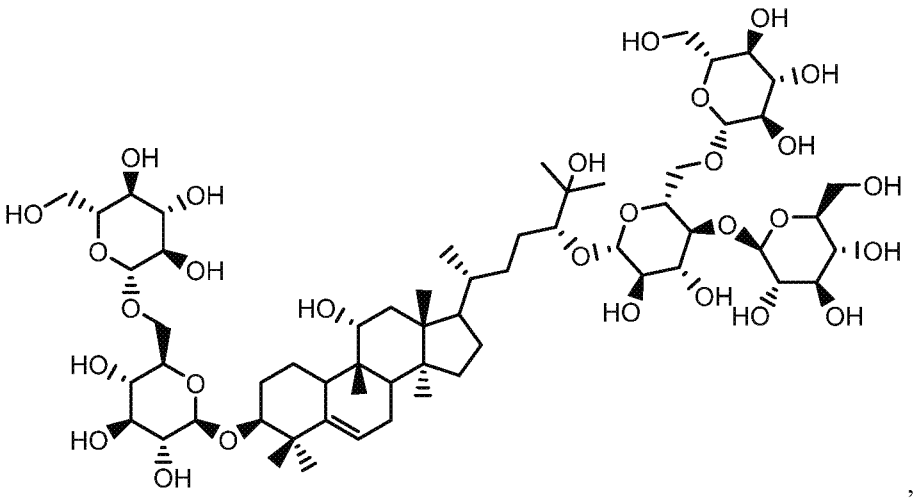
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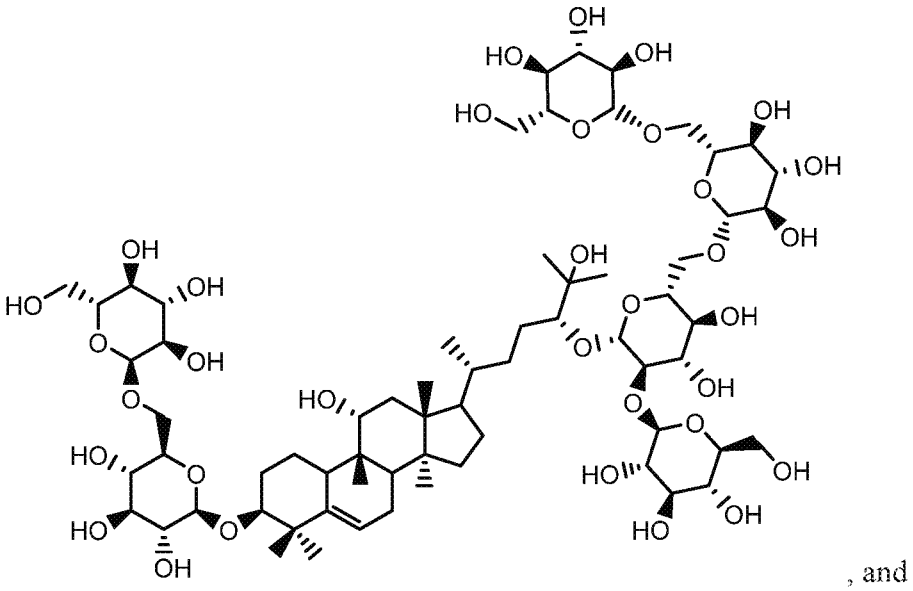
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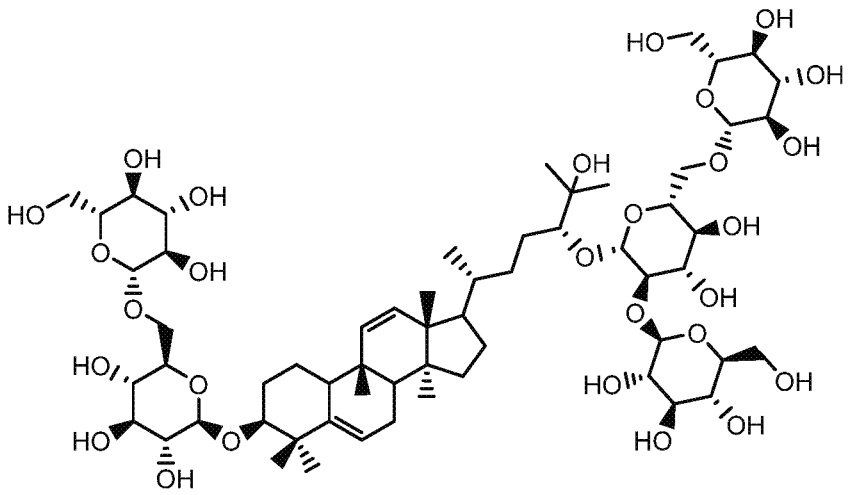
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[0155] In various embodiments, the composition contains a weight percent of less than 50%, 40%, 30%, 20%, 10%, 5%, or 1% of Mogroside V. In various embodiments, the composition contains a weight percent of from 1% to 50%, from 5% to 40%, from 10% to 40%, from 10% to 30%, or from 10% to 20% of Mogroside V.

[0156] In some embodiments, the production composition contains none, or less than a certain amount, of undesirable compounds. In some embodiments, the composition does not contain one or more isomers of Mogroside I, Mogroside II, and Mogroside III. In various embodiments, the composition contains a weight percent of less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm of all isomers of Mogroside I, Mogroside II, and Mogroside III. In some embodiments, the composition does not contain one or more of Mogroside IIIE, 11-oxo-Mogroside IIIE, Mogroside IIIA2, Mogroside IE, Mogroside IIE, and 11-oxo-mogrol. In various embodiments, the composition contains a weight percent of less than than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm of one or more of Mogroside IIIE, 11-oxo-Mogroside IIIE, Mogroside IIIA2, Mogroside IE, Mogroside IIE, and 11-oxo-mogrol. In various embodiments, the composition contains a weight percent of less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm of Mogroside IIIE. In various embodiments, the composition contains a weight percent of less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm of 11-oxo-Mogroside IIIE. In various embodiments, the composition contains a weight percent of less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm of 11-oxo-mogrol.

[0157] In some embodiments, the production composition is in solid form, which may by crystalline or amorphous. In some embodiments, the composition is in particulate form. The solid form of the composition may be produced using any suitable technique, including but not limited to re-crystallization, filtration, solvent evaporation, grinding, milling, spray drying, spray agglomeration, fluid bed agglomeration, wet or dry granulation, and combinations thereof. In some embodiments, a flowable particulate composition is provided to facilitate use in further food manufacturing processes. In some such embodiments, a particle size between 50 μm and 300 μm, between 80 μm and 200 μm, or between 80 μm and 150 μm is generated.

[0158] In some embodiments, the production composition is combined with a solid carrier. For example, the production composition may be mixed or coated with a solid carrier. In some embodiments, the solid carrier is a particulate. Any suitable coating technique may be used, including spray coating. Suitable solid carriers include but are not limited to lactose, cellulose, microcrystalline cellulose, modified food starch, gum Arabic, maltodextrin, modified corn starch, dextrose, xantham gum, carboxymethylcellulose, cellulose gel, cellulose gum, sodium caseinate, carrageenan, and combinations thereof.

[0159] In some embodiments, prior to further use, a parictulate composition comprising a compound described herein is suspended in a liquid carrier. Suitable liquid carriers can include water, an alcohol, ethanol, propylene glycol, triacetine, medium chain triglycerides, glycerin, and combinations thereof.

[0160] Some embodiments provide a production composition that is in solution form. For example, in some embodiments a solution produced by one of the production processes described herein is used without further purification. In various embodiments, the concentration of the desired compound in the solution is greater than 300 ppm, 500 ppm, 800 ppm, 0.1%, 0.5%, 1%, 2%, 3%, 4%, 5%, 6%, 7%, 8%, 9%, 10%, 15%, or 20% by weight. In various embodiments, the concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III is less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, or 100 ppm. In various embodiments, the concentration of one or more of Mogroside IIIE, 11-oxo-Mogroside IIIE, Mogroside IIIA2, Mogroside IE, Mogroside IIE, and 11-oxo-mogrol is less than than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, 100 ppm, 50 ppm, 30 ppm, 20 ppm, 10 ppm, 5 ppm, 1 ppm, or 0.1 ppm of one or more of Mogroside IIIE, 11-oxo-Mogroside

IIIE, Mogroside IIIA2, Mogroside IE, Mogroside IIE, and 11-oxo-mogrol. In various embodiments, the concentration of Mogroside IIIE is less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, 100 ppm, 50 ppm, 30 ppm, 20 ppm, 10 ppm, 5 ppm, 1 ppm, or 0.1 ppm. In various embodiments, the concentration of 11-oxo-Mogroside IIIE is less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, 100 ppm, 50 ppm, 30 ppm, 20 ppm, 10 ppm, 5 ppm, 1 ppm, or 0.1 ppm. In various embodiments, the concentration of 11-oxo-mogrol is less than 5%, 3%, 2%, 1%, 0.5%, 0.3%, 0.1%, 800 ppm, 500 ppm, 200 ppm, 100 ppm, 50 ppm, 30 ppm, 20 ppm, 10 ppm, 5 ppm, 1 ppm, or 0.1 ppm.

[0161] In some embodiments, the production composition has a pH of less than or equal to 7. In some embodiments, the production composition has a pH of less than 7. In some embodiments, the production compsosition has a pH greater than or equal to 7. In some embodiments, the production composition has a pH of greater than 7. In some embodiments, the production composition has a pH between 6 and 10, between 6 and 9, between 6 and 8, between 6 and 7, between 1 and 7, between 1 and 6, between 1 and 5, between 1 and 4, between 1 and 3, or between 1 and 2. In some embodiments, the production composition has a pH of about 1, of about 1.5, of about 2, of about 2.5, of about 3, of about 3.5, of about 4, of about 4.5, of about 5, of about 5.5, of about 6, of about 6.5, or of about 7.

Ingestible Compositions

[0162] In general, compounds as disclosed and described herein, individually or in combination, can be provided in a composition, such as, e.g., an ingestible composition. In one embodiment, compounds as disclosed and described herein, individually or in combination, can provide a sweet flavor to an ingestible composition. In other embodiments, the compounds disclosed and described herein, individually or in combination, can act as a sweet flavor enhancer to enhance the sweeteness of another sweetener. In other embodiments, the compounds disclosed herein impart a more sugar-like temporal profile and/or flavor profile to a sweetener composition by combining one or more of the compounds as disclosed and described herein with one or more other sweeteners in the sweetener composition. In another embodiment, compounds as disclosed and described herein, individually or in combination, can increase or enhance the sweet taste of a composition by contacting the composition thereof with the compounds as disclosed and described herein to form a modified composition. In another

embodiment, compounds as disclosed and described herein, individually or in combination, can be in a composition that modulates the sweet receptors and/or their ligands expressed in the body other than in the taste buds.

[0163] Some embodiments provide an ingestible composition, comprising at least one compound of formula (I), or a salt thereof and an ingestibly acceptable ingredient. In some embodiments, the ingestible composition does not comprise mogroside V.

[0164] Some embodiments provide an ingestible composition, comprising at least one compound of any of compounds 1-35, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 1, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 2, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 3, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 4, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 5, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 6, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 7, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 8, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 9, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 10, or a salt thereof, and an ingestibly acceptable ingredient.

[0165] In some embodidments, the composition comprises Compound 11, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 12, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 13, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 14, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 15, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 16, or a salt thereof, and an ingestibly

acceptable ingredient. In some embodidments, the composition comprises Compound 17, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 18, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 19, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 20, or a salt thereof, and an ingestibly acceptable ingredient.

[0166] In some embodidments, the composition comprises Compound 21, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 22, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 23, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 24, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 25, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 26, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 27, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 28, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 29, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 30, or a salt thereof, and an ingestibly acceptable ingredient.

[0167] In some embodidments, the composition comprises Compound 31, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 32, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 33, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 34, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition comprises Compound 35, or a salt thereof, and an ingestibly acceptable ingredient.

[0168] Some embodiments provide an ingestible composition, consisting of at least one compound of any of compounds 1-35, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 1, or a salt thereof, and an ingestibly

acceptable ingredient. In some embodidments, the composition consists of Compound 1, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 2, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 3, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 4, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 5, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 6, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 7, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 8, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 9, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 10, or a salt thereof, and an ingestibly acceptable ingredient.

[0169] In some embodidments, the composition consists of Compound 11, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 12, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 13, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 14, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 15, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 16, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 17, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 18, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 19, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 20, or a salt thereof, and an ingestibly acceptable ingredient.

[0170] In some embodidments, the composition consists of Compound 21, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition

consists of Compound 22, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 23, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 24, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 25, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 26, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 27, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 28, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 29, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 30, or a salt thereof, and an ingestibly acceptable ingredient.

[0171] In some embodidments, the composition consists of Compound 31, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 32, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 33, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 34, or a salt thereof, and an ingestibly acceptable ingredient. In some embodidments, the composition consists of Compound 35, or a salt thereof, and an ingestibly acceptable ingredient.

[0172] Some embodiments provide an ingestible composition, comprising at least two compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least three compounds of any of compounds 1-35.

[0173] Some embodiments provide an ingestible composition, comprising at least four compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least five compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least six compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least seven compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least eight compounds of any of compounds 1-35. Some embodiments provide an ingestible composition, comprising at least nine compounds of any of

compounds 1-35. Some embodiments provide an ingestible composition, comprising at least ten compounds of any of compounds 1-35.

[0174] In some embodiments, the ratio of, for example, two compounds, is between about 1:100 and 100:1. In some embodiments, the ratio of compounds is between about 1:50 and 50:1. In some embodiments, the ratio of compounds is between about 1:25 and 25:1. In some embodiments, the ratio of compounds is between about 1:10 and 10:1. In some embodiments, the ratio of compounds is between about 1:5 and 5:1. In some embodiments, the ratio of compounds is between about 1:2 and 2:1. In some embodiments, the ratio of compounds is about 1:1.

[0175] In some embodiments, the compound is present in an amount from about 0.01% to about 15% by weight. In some embodiments, the compound is present in an amount from about 0.05% to about 14% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 13% by weight. In some embodiments, the compound is present in an amount from about 0.2% to about 12% by weight. In some embodiments, the compound is present in an amount from about 0.3% to about 11% by weight.

[0176] In some embodiments, the compound is present in an amount from about 0.4% to about 1% by weight. In some embodiments, the compound is present in an amount from about 0.5% to about 9% by weight. In some embodiments, the compound is present in an amount from about 0.6% to about 8% by weight. In some embodiments, the compound is present in an amount from about 0.7% to about 7% by weight. In some embodiments, the compound is present in an amount from about 0.8% to about 6% by weight. In some embodiments, the compound is present in an amount from about 0.9% to about 5% by weight. In some embodiments, the compound is present in an amount from about 1% to about 4% by weight. In some embodiments, the compound is present in an amount from about 1% to about 3% by weight. In some embodiments, the compound is present in an amount from about 1% to about 2% by weight.

[0177] In some embodiments, the compound is present in the ingestible composition in an amount from about 0.01% to about 5% by weight. In some embodiments, the compound is present in the ingestible composition in an amount from about 0.02% to about 2% by weight. In some embodiments, the compound is present in the ingestible composition in an amount from

about 0.05% to about 1.5% by weight. In some embodiments, the compound is present in the ingestible composition in an amount from about 0.1% to about 1% by weight.

[0178] In some embodiments, the compound is present in the ingestible composition in an amount greater than about 0.1%, 0.2%, 0.5%, 1%, 2%, 5%, or 10% by weight.

[0179] In some embodiments, the compound is present in an amount from about 0.1% to about 5% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 4% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 3% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 2% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 1% by weight. In some embodiments, the compound is present in an amount from about 0.1% to about 0.5% by weight. In some embodiments, the compound is present in an amount from about 0.5% to about 10% by weight. In some embodiments, the compound is present in an amount from about 2% to about 8% by weight.

[0180] In some embodiments, when used as a sweet flavor enhancer, the compound may be present at a concentration at or below its sweetness recognition threshold.

[0181] As used herein, an "ingestible composition" includes any composition that, either alone or together with another substance, is suitable to be taken by mouth whether intended for consumption or not. The ingestible composition includes both "food or beverage products" and "non-edible products". By "Food or beverage products", it is meant any edible product intended for consumption by humans or animals, including solids, semi-solids, or liquids (e.g., beverages) and includes functional food products (e.g., any fresh or processed food claimed to have a health-promoting and/or disease-preventing properties beyond the basic nutritional function of supplying nutrients). The term "non-food or beverage products" or "noncomestible composition" includes any product or composition that can be taken into the mouth by humans or animals for purposes other than consumption or as food or beverage. For example, the non-food or beverage product or noncomestible composition includes supplements, nutraceuticals, pharmaceutical and over the counter medications, oral care products such as dentifrices and mouthwashes, and chewing gum.

[0182] In some embodiments, an ingestible composition may be a beverage. In some embodiments, the beverage may be selected from the group consisting of enhanced sparkling beverages, colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies. In some embodiments, the beverage may be a soft drink.

[0183] An "ingestibly acceptable ingredient" is a substance that is suitable to be taken by mouth and can be combined with a compound described herein to form an ingestible composition. The ingestibly acceptable ingredient may be in any form depending on the intended use of a product, e.g., solid, semi-solid, liquid, paste, gel, lotion, cream, foamy material, suspension, solution, or any combinations thereof (such as a liquid containing solid contents). The ingestibly acceptable ingredient may be artificial or natural. Ingestibly acceptable ingredients includes many common food ingredients, such as water at neutral, acidic, or basic pH, fruit or vegetable juices, vinegar, marinades, beer, wine, natural water/fat emulsions such as milk or condensed milk, edible oils and shortenings, fatty acids and their alkyl esters, low molecular weight oligomers of propylene glycol, glyceryl esters of fatty acids, and dispersions or emulsions of such hydrophobic substances in aqueous media, salts such as sodium chloride, wheat flours, solvents such as ethanol, solid edible diluents such as vegetable powders or flours, or other liquid vehicles; dispersion or suspension aids; surface active agents; isotonic agents; thickening or emulsifying agents, preservatives; solid binders; lubricants and the like.

[0184] Additional ingestibly acceptable ingredients include acids, including, for example citric acid, phosphoric acid, ascorbic acid, sodium acid sulfate, lactic acid, or tartaric acid; bitter ingredients, including, for example caffeine, quinine, green tea, catechins, polyphenols, green robusta coffee extract, green coffee extract, whey protein isolate, or potassium chloride; coloring agents, including, for example caramel color, Red #40, Yellow #5, Yellow #6, Blue #1, Red #3, purple carrot, black carrot juice, purple sweet potato, vegetable juice, fruit juice, beta carotene, turmeric curcumin, or titanium dioxide; preservatives, including,

for example sodium benzoate, potassium benzoate, potassium sorbate, sodium metabisulfate, sorbic acid, or benzoic acid; antioxidants including, for example ascorbic acid, calcium disodium EDTA, alpha tocopherols, mixed tocopherols, rosemary extract, grape seed extract, resveratrol, or sodium hexametaphosphate; vitamins or functional ingredients including, for example resveratrol, Co-Q10, omega 3 fatty acids, theanine, choline chloride (citocoline), fibersol, inulin (chicory root), taurine, panax ginseng extract, guanana extract, ginger extract, L-phenylalanine, L-carnitine, L-tartrate, D-glucoronolactone, inositol, bioflavonoids, Echinacea, ginko biloba, yerba mate, flax seed oil, garcinia cambogia rind extract, white tea extract, ribose, milk thistle extract, grape seed extract, pyrodixine HCl (vitamin B6), cyanoobalamin (vitamin B12), niacinamide (vitamin B3), biotin, calcium lactate, calcium pantothenate (pantothenic acid), calcium phosphate, calcium carbonate, chromium chloride, chromium polynicotinate, cupric sulfate, folic acid, ferric pyrophosphate, iron, magnesium lactate, magnesium carbonate, magnesium sulfate, monopotassium phosphate, monosodium phosphate, phosphorus, potassium iodide, potassium phosphate, riboflavin, sodium sulfate, sodium gluconate, sodium polyphosphate, sodium bicarbonate, thiamine mononitrate, vitamin D3, vitamin A palmitate, zinc gluconate, zinc lactate, or zinc sulphate; clouding agents, including, for example ester gun, brominated vegetable oil (BVO), or sucrose acetate isobutyrate (SAIB); buffers, including, for example sodium citrate, potassium citrate, or salt; flavors, including, for example propylene glycol, ethyl alcohol, glycerine, gum Arabic (gum acacia), maltodextrin, modified corn starch, dextrose, natural flavor, natural flavor with other natural flavors (natural flavor WONF), natural and artificial flavors, artificial flavor, silicon dioxide, magnesium carbonate, or tricalcium phosphate; and stabilizers, including, for example pectin, xanthan gum, carboxylmethylcellulose (CMC), polysorbate 60, polysorbate 80, medium chain triglycerides, cellulose gel, cellulose gum, sodium caseinate, modified food starch, gum Arabic (gum acacia), or carrageenan.

[0185] In some embodiments, the ingestible composition further comprises a vehicle. In some embodiments, the vehicle is water. In some embodiments, the vehicle is carbonated water. In some embodiments, the vehicle is nitrogen infused water. In some embodiments, the vehicle is aqueous ethyl alcohol. In some embodiments, the vehicle is a ready-to-use beverage product.

[0186] In some embodiments, the composition comprises a sweetening compound and/or a sweet flavor enhancing compound as described herein, and one or more food additives. Representative food additives include but are not limited to, those declared to the U.S. Food and Drug Administration (See U.S. FDA list of Everything Added to Food in the U.S. (EAFUS), available at http://www.accessdata.fda.gov/scripts/fcn/fcnNavigation.cfm?rpt=eafusListing, last accessed Novemebr 16, 2015). Such food additives include: Gum Acacia (Acacia Senegal (L.) Willd.), Acai Berry Extract, Acesulfame Potassium, Acetal, Acetaldehyde, Acetaldehyde, Butyl Phenethyl Acetal, Acetaldehyde Di-Cis-3-Hexenyl Acetal, Acetaldehyde Diisoamyl Acetal, Acetaldehyde Di-Isobutylacetal, Acetaldehyde Ethyl Cis-3-Hexenyl Acetal, Acetaldehyde Ethyl Isobutyl Acetal, (+/-)-Acetaldehyde Ethyl Isopropyl Acetal, Acetaldehyde Hexyl Isoamyl Acetal, Acetaldehyde 1,3-Octanediol Acetal, Acetaldehyde Phenethyl Propyl Acetal, Acetamide, Acetanisole, Acetic Acid, Acetic Anhydride, Acetoin, Acetoin Propyleneglycol Ketal, Alpha-Acetolactate Decarboxylase Enzyme Preparation From Bacillus Subtilis Recombinant, Acetolein, Acetone, Acetone Peroxides, Acetophenone, Acetostearin, 6-Acetoxydihydrotheaspirane, 4-Acetoxy-2,5-Dimethyl-3(2h)-Furanone, (+/-)-1-Acetoxy-1-Ethoxyethane, 4-(P-Acetoxyphenyl)-2-Butanone, 5-Acetyl-2,3-Dihydro-1,4-Thiazine, 2-Acetyl-3,5-Dimethylfuran, 3-Acetyl-2,5-Dimethylfuran, 4-Acetyl-2,5-Dimethyl-3(2h)-Furanone, 2-Acetyl-3, 5(Or 6)-Dimethylpyrazine, Mixture Of Isomers, 2-Acetyl-3-Ethylpyrazine, 4-Acetyl-2-Isopropenylpyridine, 2-Acetyl-4-Isopropenylpyridine, 2-Acetyl-4-Isopropylpyridine, 3-Acetylmercaptohexyl Acetate, N-Acetyl-L-Methionine, Acetyl Methyl Carbinyl Acetate, 2-Acetyl-5-Methylfuran, 2-Acetyl-3-Methylpyrazine, 4-Acetyl-2-Methylpyrimidine, 2-Acetyl-5-Methylthiophene, Acetylpyrazine, 2-Acetylpyridine, 3-Acetylpyridine, 2-Acetyl-1-Pyrroline, 4-Acetyl-6-Tert-Butyl-1,1-Dimethylindane, 2-Acetylthiazole, 2-Acetyl-2-Thiazoline, 3-(Acetylthio)-2-Methylfuran, Aconitic Acid, Acrolein, 3-(2-Furyl)Acrolein, Acrylamide-Acrylic Acid Resin, Acrylamide-Sodium Acrylate Resin, Acrylic Acid-2-Acrylamido-2-Methyl Propane Sulfonic Acid Copolymer, Activated Carbon, Adipic Acid, Adipic Anhydride, Advantame, Agar (Gelidium Spp.), Alpha-Bisabolol, Dl-Alanine, L-Alanine, Beta-Alanine, L-Alanyl-L-Glutamine, Albumin, Alcohol, Denatured Formula 23a, Alcohol Sda-3a, Alfalfa, Extract (Medicago Sativa L.), Alfalfa, Herb And Seed (Medicago Sativa L.), Algae, Brown, Extract (Macrocystis And Laminaria Spp.), Algae, Red (Porphyra Spp. And Gloiopeltis Furcata And Rhodymenia Palmata

(L.)), Algae, Red, Extract (Porphyra Spp. And Gloiopeltis Furcata And Rhodymenia Palmata (L.)), Alginate, Ammonium, Alginate, Calcium, Alginate, Potassium, Alginate, Sodium, Alginate, Sodium Calcium, Alginic Acid, Alkanet Root, Extract (Alkanna Tinctoria Tausch), Alkanolamide Of Coconut Oil Fatty Acids And Diethanolamine, Alkylene Oxide Adducts Of Alkyl Alcohols/Phosphate Esters Of Same, (Mixture), N-Alkyl(C8-C18 From Coconut Oil) Amine Acetate, Alpha-Alkyl-Omega-Hydroxy-Poly(Oxyethylene), Allspice (Pimenta Officinalis Lindl.), Allspice, Oil (Pimenta Officinalis Lindl.), Allspice, Oleoresin (Pimenta Officinalis Lindl.), Allyl Alpha-Ionone, Allyl Anthranilate, Allyl Butyrate, Allyl Cinnamate, Allyl Crotonate, Allyl Cyclohexaneacetate, Allyl Cyclohexanebutyrate, Allyl Cyclohexanehexanoate, Allyl Cyclohexanepropionate, Allyl Cyclohexanevalerate, S-Allyl-L-Cysteine, 4-Allyl-2,6-Dimethoxyphenol, Allyl Disulfide, Allyl 2-Ethylbutyrate, Allyl 2-Furoate, Allyl Heptanoate, Allyl Hexanoate, Allyl Hexenoate, Allyl Isothiocyanate, Allyl Isovalerate, Allyl Mercaptan, Allyl Methyl Disulfide, Allyl Methyl Trisulfide, Allyl Nonanoate, Allyl Octanoate, 4-Allylphenol, Allyl Phenoxyacetate, Allyl Phenylacetate, Allyl Propionate, Allyl Propyl Disulfide, Allyl Sorbate, Allyl Sulfide, Allyl Thiohexanoate, Allyl Thiopropionate, Allyl Tiglate, Allyl 10-Undecenoate, Allyl Valerate, Almond, Bitter, Oil (Ffpa) (Prunus Spp.), Aloe, Extract (Aloe Spp.), Alpha-Amylcinnamyl Isovalerate, Alpha-Ethyl Benzyl Butyrate, Alpha-Hydro-Omega-Hydroxy Poly(Oxyethylene) Poly(Oxypropylene) Poly(Oxyethylene) (15 Mole Minimum) Blocked Copolymer, Low Erucic Acid Rapeseed Oil Polymers, Alpha-Isobutylphenethyl Alcohol, Alpha-Methylbenzyl Butyrate, Alpha-Methylbenzyl Isobutyrate, Alpha-Tocopherol Acid Succinate, Althea Flowers (Althea Officinalis L.), Althea Root (Althea Officinalis L.), Alum (Double Sulfate Of Al And Nh4, K, Or Na), Aluminum Ammonium Sulfate, Aluminum Calcium Silicate, Aluminum Caprate, Aluminum Caprylate, Aluminum Hydroxide, Aluminum Laurate, Aluminum Myristate, Aluminum Nicotinate, Aluminum Oleate, Aluminum Palmitate, Aluminum Potassium Sulfate, Aluminum Salts Of Fatty Acids, Aluminum Sodium Sulfate, Aluminum Stearate, Aluminum Sulfate, Ambergris, Tincture, Ambrette, Absolute, Oil (Hibiscus Abelmoschus L.), Ambrette Seed (Hibiscus Abelmoschus L.), Ambrette Seed, Oil (Hibiscus Abelmoschus L.), Ambrette, Tincture (Hibiscus Abelmoschus L.), 1-Amino-2-Propanol, 2'-Aminoacetophenone, P-Aminobenzoic Acid, 4-Aminobutyric Acid, Dl-(3-Amino-3-Carboxypropyl)Dimethylsulfonium Chloride, 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-

2(1h)-One, 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-2(1h)-One Hydrochloride, 3-[(4-Amino-2,2-Dioxido-1h-2,1,3-Benzothiadiazin-5-Yl)Oxy]-2,2-Dimethyl-N-Propylpropanamide, Aminoglycoside 3'-Phosphotransferase Ii, Aminopeptidase From Lactococcus Lactis, Amino Tri(Methylene Phosphonic Acid), Sodium Salt, Ammonia (Also Includes Ammonium Chloride), Ammonium Acetate, Ammonium Bicarbonate, Ammonium Carbonate, Ammonium Caseinate, Ammonium Chloride, Ammonium Citrate, Dibasic, Ammonium Gluconate, Ammonium Hydroxide, Ammonium Isovalerate, Ammonium Pectinate, Ammonium Persulfate, Ammonium Phosphate, Dibasic, Ammonium Phosphate, Monobasic, Ammonium Sulfate, Ammonium Sulfide, Ammonium Sulfite, Amyl Alcohol, Alpha-Amylase Enzyme Preparation From Bacillus Stearothermophilus, Amylase From Aspergillus Flavus, Amylase From Aspergillus Niger, Amylase From Aspergillus Oryzae, Amylase From Bacillus Subtilis, Amyl Butyrate, Alpha-Amylcinnamaldehyde, Alpha-Amylcinnamaldehyde Dimethyl Acetal, Alpha-Amylcinnamyl Acetate, Alpha-Amylcinnamyl Alcohol, Alpha-Amylcinnamyl Formate, Amyl Decanoate, Amyl Formate, Amyl 2-Furoate, Amyl Heptanoate, Amyl Hexanoate, Amyl Isothiocyanate, Amyl Methyl Disulfide, Amyl Octanoate, Amyloglucosidase From Rhizopus Niveus, 2-Amyl-5 Or 6-Keto-1,4-Dioxane, Amyl Salicylate, Amyris (Amyris Balsamifera L.), Amyris, Oil (Amyris Balsamifera L.), (2,4)- And (3,5)- And (3,6)-Dimethyl-3-Cyclohexenylcarbaldehyde, Trans-Anethole, Angelica (Angelica Spp.), Beta-Angelicalactone, Angelica Root (Angelica Spp.), Angelica Root Extract (Angelica Archangelica L.), Angelica Root Oil (Angelica Archangelica L.), Angelica Seed (Angelica Spp.), Angelica Seed Extract (Angelica Archangelica L.), Angelica Seed Oil (Angelica Archangelica L.), Angelica Stem Oil (Angelica Archangelica L.), Angola Weed (Roccella Fuciformis Ach.), Angostura (Galipea Offincinalis Hancock), Angostura Extract (Galipea Officinalis Hancock), Anisaldehyde Propyleneglycol Acetal, Anise (Pimpinella Anisum L.), Anise Oil (Pimpinella Anisum L.), Anise, Star (Illicium Verum Hook, F.), Star Anise Oil (Illicium Verum Hook, F.), Anisic Acid, Anisole, Anisyl Acetate, Anisyl Alcohol, Anisyl Butyrate, Anisyl Formate, Anisyl Phenylacetate, Anisyl Propionate, Annatto, Extract (Bixa Orellana L.), Annatto, Seed (Bixa Orellana L.), Anoxomer, Sulfonated Anthracite Coal, Beta-Apo-8'-Carotenal, Apple Essence, Apricot Kernel Oil (Prunus Armeniaca L.), Arabinogalactan, L-Arabinose, L-Arginine, Arnica Flowers (Arnica Spp.), Arrowroot Starch, Artemisia (Artemisia Spp.), Artemisia Extract, Artemisia Oil, Artichoke Leaves (Cynara Scolymus L.), Asafetida

Fluid Extract (Ferula Assafoetida L.), Asafetida Gum (Ferula Assafoetida L.), Asafetida Oil (Ferula Assafoetida L.), Ascorbic Acid, Ascorbyl Palmitate, Ascorbyl Stearate, L-Asparagine, Asparagus, Seed And Root, Extract, Aspartame, L-Aspartic Acid, Aspergillus Niger For Fermentation Production Of Citric Acid, Astaxanthin, Azodicarbonamide, Bacterial Catalase From Micrococcus Lysodeikticus, Bakers Yeast Extract, Baker's Yeast Glycan, Baker's Yeast Protein, Balm (Melissa Officinalis L.), Balm Leaves (Melissa Officinalis L.), Balm Leaves Extract (Melissa Officinalis L.), Balm Oil (Melissa Officinalis L.), Balsam Fir Needles And Twigs (Abies Balsamea (L.) Mill.), Balsam Fir Oil (Abies Balsamea (L.) Mill.), Balsam Fir Oleoresin (Abies Balsamea (L.) Mill.), Peru Balsam (Myroxylon Pereirae Klotzsch), Peru Balsam, Oil (Myroxylon Pereirae Klotzsch), Basil (Ocimum Basilicum L.), Basil Bush (Ocimum Minimum L.), Basil Extract (Ocimum Basilicum L.), Basil Oil (Ocimum Basilicum L.), Basil Oleoresin (Ocimum Basilicum L.), Bay (Laurus Nobilis L.), Sweet Bay Leaves Extract (Laurus Nobilis L.), Sweet Bay Leaves Oil (Laurus Nobilis L.), Bay Leaves, West Indian, Extract (Pimenta Acris Kostel), Bay Leaves, West Indian, Oil (Pimenta Racemosa (Mill.) J.W. Moore), Bay Leaves, West Indian, Oleoresin (Pimenta Acris Kostel), Beechwood, Creosote (Fagus Spp.), Beeswax, Bleached Beeswax, Bentonite, Benzaldehyde, Benzaldehyde Dimethyl Acetal, Benzaldehyde Glyceryl Acetal, Benzaldehyde Propylene Glycol Acetal, Benzene, Benzenethiol, 2-Benzofurancarboxaldehyde, Benzoic Acid, Benzoin, Benzoin, Resin (Styrax Spp.), Benzophenone, Benzothiazole, N-Benzoylanthranilic Acid, Benzoyl Peroxide, Benzyl Acetate, Benzyl Acetoacetate, Benzyl Alcohol, Benzyl Benzoate, Benzyl Butyl Ether, Benzyl Butyrate, Benzyl Cinnamate, Benzyl 2,3-Dimethylcrotonate, Benzyl Disulfide, Benzyl Ethyl Ether, Benzyl Formate, 3-Benzyl-4-Heptanone, Benzyl Hexanoate, Benzyl Isobutyrate, Benzyl Isothiocyanate, Benzyl Isovalerate, Benzyl Levulinate, Benzyl Mercaptan, Benzyl Methoxyethyl Acetal, Benzyl Trans-2-Methyl-2-Butenoate, Benzyl Methyl Sulfide, Benzyl Nonanoate, Benzyl Phenylacetate, Benzyl Propionate, Benzyl Salicylate, Bergamot, Oil (Citrus Aurantium L. Subsp. Bergamia Wright Et Arn.), Betaine, Biotin, Biphenyl, Birch, Sweet, Oil (Betula Lenta L.), Birch Tar, Oil (Betula Pendula Roth And Related Betula Spp.), Bisabolene, Bis(2,5-Dimethyl-3-Furyl) Disulfide, Bis(2-Methyl-3-Furyl) Disulfide, Bis(1-Mercaptopropyl)Sulfide, Bis-(Methylthio)Methane, Bis(2-Methylphenyl) Disulfide, Bis(2-Methyl-3-Furyl) Tetrasulfide, Blackberry Bark, Extract (Rubus, Spp. Of Section Eubatus), Blackberry Fruit Extract, Bois De

Rose, Oil (Aniba Rosaeodora Ducke), Boldus Leaves (Peumus Boldus Mol.), Bonito, Dried, Borax, Boric Acid, Borneol, L-Bornyl Acetate, Bornyl Acetate, Bornyl Butyrate, Bornyl Formate, Bornyl Isovalerate, Bornyl Valerate, Boronia, Absolute (Boronia Megastigma Nees), Bouillon, Vegetable, Smoke, Beta-Bourbonene, Bromelain, Brominated Vegetable Oil, Bryonia Root (Bryonia Spp.), Buchu Leaves (Barosma Betulina And Crenulata), Buchu Leaves Extract, Buchu Leaves, Oil (Barosma Spp.), Buckbean Leaves (Menyanthes Trifoliata L.), Buckbean Leaves, Extract (Menyanthes Trifoliata L.), Butadiene-Styrene Rubber, 4-(Methylthio)Butanal, Butanal Dibenzyl Thioacetal, N-Butane, 1,3-Butanedithiol, 1,2-Butanedithiol, 2,3-Butanedithiol, 1-Butanethiol, 2-Butanol, 2-Butanone, Butan-3-One-2-Yl Butanoate, (E)-2-Butenoic Acid, 4-(2-Butenylidene)-3,5,5-Trimethylcyclohex-2-En-1-One, 3-Butenyl Isothiocyanate, 1-Buten-1-Yl Methyl Sulfide, Butter Acids, Butter Esters, Butter Fat (Enzyme-Modified, With Added Butyric Acid), Butter Starter Distillate, Butyl Acetate, Butyl Acetoacetate, Butyl Alcohol, Butylamine, Sec-Butylamine, Butyl Anthranilate, Butylated Hydroxyanisole, Butylated Hydroxytoluene, 2-Butyl-2-Butenal, Butyl Butyrate, Butyl Butyryllactate, Alpha-Butylcinnamaldehyde, Butyl Cinnamate, Butyl 2-Decenoate, 1,3-Butylene Glycol, Butyl Ethyl Disulfide, Butyl Ethyl Malonate, Butyl Formate, 2-Butylfuran, Butyl Heptanoate, Butyl Hexanoate, Butyl P-Hydroxybenzoate, Alpha-Butyl-Omega-Hydroxypoly(Oxyethylene) Poly(Oxypropylene), 3-Butylidenephthalide, Butyl Isobutyrate, 2-Butylisothiocyanate, Butyl Isothiocyanate, Butyl Isovalerate, Butyl Lactate, Butyl Laurate, Butyl Levulinate, N-Butyl 2-Methylbutyrate, Butyl Beta-(Methylthio)Acrylate, Butyl Beta-Naphthyl Ether, Butyl Oleate Sulfate, 2-Butyl-5 Or 6-Keto-1,4-Dioxane, Butyl Phenylacetate, 3-N-Butylphthalide, Butyl Propionate, Butyl Salicylate, Butyl Stearate, Butyl Sulfide, Butyl 10-Undecenoate, Butyl Valerate, Butyraldehyde, Butyramide, Butyric Acid, 2-Butyrylfuran, Cadinene, Caffeine, Cajeput, Oil (Melaleuca Leucadendron L.), Calcium Acetate, Calcium Ascorbate, Calcium Benzoate, Calcium Bromate, Calcium Caprate, Calcium Caprylate, Calcium Carbonate, Calcium Caseinate, Calcium Chloride, Calcium Citrate, Calcium Diglutamate, Calcium Fumarate, Calcium Gluconate, Calcium Glycerophosphate, Calcium Hexametaphosphate, Calcium Hydroxide, Calcium Hypophosphite, Calcium Iodate, Calcium Lactate, Calcium Lactobionate, Calcium Laurate, Calcium Lignosulfonate, Calcium Myristate, Calcium Oleate, Calcium Oxide, Calcium Palmitate, Calcium Pantothenate, Calcium Pantothenate, Calcium Chloride Double Salt, Calcium Peroxide,

Calcium Phosphate, Dibasic, Calcium Phosphate, Monobasic, Calcium Phosphate, Tribasic, Calcium Phytate, Calcium Propionate, Calcium Pyrophosphate, Calcium Salts Of Fatty Acids, Calcium Silicate, Calcium Sorbate, Calcium Stearate, Calcium Stearoyl-2-Lactylate, Calcium Sulfate, Calumba Root (Jatrorrhiza Palmata (Lam.) Miers), Calumba Root, Extract (Jatrorrhiza Palmata (Lam.) Miers), Camphene, Campholene Acetate, Alpha-Campholenic Alcohol, D-Camphor, Camphor, Japanese, White, Oil (Cinnamomum Camphora (L.) Nees Et Eberm.), Camphor Oil, Formosan Ho-Sho, Leaves (Cinnamomum Camphora), Cananga, Oil (Cananga Odorata Hook. F. And Thoms.), Candelilla Wax (Wax From Stems And Branches Of Euphorbia Cerifera), Candida Guilliermondii, Candida Lipolytica, Canthaxanthin, Capers (Capparis Spinosa L.), Caprolactam, Capsicum (Capsicum Spp.), Capsicum Extract (Capsicum Spp.), Capsicum, Oleoresin (Capsicum Spp.), Caramel, Caraway (Carum Carvi L.), Caraway, Black (Nigella Sativa L.), Caraway, Oil (Carum Carvi L.), Carbohydrase And Cellulase From Aspergillus Niger, Carbohydrase And Protease, Mixture, From Bacillus Subtilis, Carbohydrase From Aspergillus Oryzae, Carbohydrase From Bacillus Amyloliquefaciens, Carbohydrase From Bacillus Licheniformis, Carbohydrase From Bacillus Subtilis, Carbohydrase From Rhizopus Oryzae, Carbohydrase From Saccharomyces Spp., Carbohydrase/Proteinase Preparation, Bacillus Licheniformis, Carbon Dioxide, Carboxymethyl Cellulose, Carboxymethyl Cellulose, Sodium Salt, Carboxymethyl Hydroxyethyl Cellulose, Cardamom (Elletaria Cardamomum (L.) Maton), Cardamom Oleoresin, Cardamom Seed, Oil (Elletaria Cardamomum (L.) Maton), 3-Carene, Carmine (Coccus Cacti L.), Carnauba Wax (Copernicia Cerifera (Arruda) Mart.), L-Carnitine, Carob Bean, Extract (Ceratonia Siliqua L.), Beta-Carotene, Carrageenan, Ammonium salt of Carrageenan, Ammonium salt of Carrageenan (With Polysorbate 80), Carrageenan And Salts Of Carrageenan, Calcium Salt of Carrageenan, Calcium Salt of Carrageenan (With Polysorbate 80), Potassium Salt of Carrageenan, Potassium Salt of Carrageenan (With Polysorbate 80), Carrageenan Salts With Polysorbate 80, Sodium Salt of Carrageenan, Sodium Salt of Carrageenan (With Polysorbate 80), Carrageenan With Polysorbate 80, Carrot (Daucus Carota L.), Carrot, Dehydrated, Carrot, Extract, Carrot, Oil (Daucus Carota L.), Carvacrol, Carvacryl Ethyl Ether, Carveol, 4-Carvomenthenol, Carvomenthol, Carvone, Cis-Carvone Oxide, Carvyl Acetate, Carvyl Palmitate, Carvyl Propionate, Beta-Caryophyllene, Beta-Caryophyllene Alcohol, Caryophyllene Alcohol, Beta-Caryophyllene Alcohol Acetate,

Caryophyllene Alcohol Acetate, Beta-Caryophyllene Oxide, Cascara, Bitterless, Extract (Rhamnus Purshiana Dc.), Cascarilla Bark, Extract (Croton Spp.), Cascarilla Bark, Oil (Croton Spp.), Casein, Cassia Buds (Cinnamomum Cassia Blume), Cassie, Absolute (Acacia Farnesiana (L.) Willd.), Castoreum, Extract (Castor Spp.), Castoreum, Liquid (Castor Spp.), Castor Oil (Ricinus Communis L.), Catalase From Aspergillus Niger, Catalase From Bovine Liver, Catalase From Penicillium Notatum, Catechu, Black, Extract (Acacia Catechu Willd.), Catechu, Black, Powder (Acacia Catechu Willd.), Cedar Leaf Oil (Thuja Occidentalis L.), Cedarwood Oil Alcohols, Cedarwood Oil Terpenes, (+)-Cedrol, Cedryl Acetate, Celery Seed (Apium Graveolens L.), Celery Seed, Extract (Apium Graveolens L.), Celery Seed, Extract Solid (Apium Graveolens L.), Celery Seed, Oil (Apium Graveolens L.), Celery Seed, Oleoresin, Cellulase From Trichoderma Longibrachiatum, Cellulose Acetate, Cellulose, Diethylaminoethyl, Cellulose, Methyl, Cellulose, Methyl Ethyl, Cellulose, Microcrystalline, Cellulose Triacetate, Centaury (Centaurium Umbellatum Gilib.), Cereal Solids, Hydrolyzed, Cetyl Alcohol, Chamomile Flower (Matricaria Chamomilla L.), Chamomile Flower (Anthemis Nobilis L.), Chamomile Flower, Hungarian, Oil (Matricaria Chamomilla L.), Chamomile Flower, Oil (Anthemis Nobilis L.), Chamomile Flower, Roman, Extract (Anthemis Nobilis L.), Char Smoke Flavor, Cherry Bark, Wild, Extract (Prunus Serotina Ehrh.), Cherry-Laurel Leaves (Prunus Laurocerasus L.), Cherry Laurel, Oil (Prunus Laurocerasus L.) (Ffpa), Cherry-Laurel Water (Prunus Laurocerasus L.), Cherry Pits, Extract (Prunus Spp.), Chervil (Anthriscus Cerefolium (L.) Hoffm.), Chervil, Extract (Anthriscus Cerefolium L.), Chestnut Leaves (Castanea Dentata (Marsh.) Borkh.), Chestnut Leaves, Extract (Castanea Dentata (Marsh.) Borkh.), Chestnut Leaves, Extract Solid (Castanea Dentata (Marsh.) Borkh.), Chicle (Manilkara Zapotilla Gilly And M. Chicle Gilly), Chicle, Venezuelan (Manilkara Williamsii Standley And Related Spp.), Chicory, Extract (Cichorium Intybus L.), Chilte (Cnidoscolus (Also Known As Jatropha) Spp.), Chiquibul (Manilkara Zapotilla Gilly), Chirata (Swertia Chirata Buch.-Ham.), Chirata, Extract (Swertia Chirata Buch.-Ham.), Chives (Allium Schoenoprasum L.), Chlorine, Chlorine Dioxide, Chlorine Solution, Aqueous, Chloroform, Chloromethyl Methyl Ether, Chloropentafluoroethane, Chlorophyll, Cholic Acid, Choline Bitartrate, Choline Chloride, Choline Chloride(Also Includes Choline), Chrysanthemum Extract, Chymosin Preparation, Aspergillus Niger Var. Awamori, Chymosin Preparation, Escherichia Coli K-12, Chymosin Preparation, Kluyveromyces

Marxianus Var. Lactis, Cinchona Bark, Red (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark, Red, Extract (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark, Yellow (Cinchona Spp.), Cinchona Bark, Yellow, Extract (Cinchona Spp.), Cinchona, Extract (Cinchona Spp.), 1,4-Cineole, Cinnamaldehyde, Cinnamaldehyde Ethylene Glycol Acetal, Cinnamaldehyde Propyleneglycol Acetal, Cinnamic Acid, Cinnamon (Cinnamomum Spp.), Cinnamon Bark, Extract (Cinnamomum Spp.), Cinnamon Bark, Oil (Cinnamomum Spp.), Cinnamon Bark Oleoresin, Ceylon, Chinese, Or Saigon (Cinnamomum Spp.), Cinnamon Leaf, Oil (Cinnamomum Spp.), Cinnamon Leaf Oil, Rectified, Cinnamyl Acetate, Cinnamyl Alcohol, Cinnamyl Benzoate, Cinnamyl Butyrate, Cinnamyl Cinnamate, Cinnamyl Formate, Cinnamyl Isobutyrate, Cinnamyl Isovalerate, Cinnamyl Phenylacetate, Cinnamyl Propionate, Cis- And Trans-Ethyl 2,4-Dimethyl-1,3-Dioxolane-2-Acetate, Cis- And Trans-5-Ethyl-4-Methyl-2-(2-Butyl)-Thiazoline, Cis And Trans-5-Ethyl-4-Methyl-2-(2-Methylpropyl)-Thiazoline, Cis- And Trans-2-Isobutyl-4-Methyl-1,3-Dioxolane, Cis- And Trans-2-Isopropyl-4-Methyl-1,3-Dioxolane, Cis- And Trans-L-Mercapto-P-Menthan-3-One, (+-)-Cis- And Trans-2-Methyl-2-(4-Methyl-3-Pentenyl)Cyclopropanecarbaldehyde, (+/-)Cis- And Trans-2-Pentyl-4-Propyl-1,3-Oxathiane, Cis-4-Decenol, Cis-4-Heptenal, Cis-3-Hexenoic Acid, Cis-3-Hexen-1-Ol, Cis-3-Hexen-1-Yl Acetate, Cis-3-Hexenyl Acetoacetate, Cis-3-Hexenyl Butyrate, Cis-3-Hexenyl Cis-3-Hexenoate, Cis-3-Hexenyl Formate, Cis-3-Hexenyl Hexanoate, Cis-5-Isopropenyl-Cis-2-Methylcyclopentan-1-Carboxaldehyde, Cis-3-Nonen-1-Ol, Cis-9-Octadecenyl Acetate, Cis-5-Octenoic Acid, Cis-4-Octenol, Cis-2-Octenol, Citral, Citral Diethyl Acetal, Citral Dimethyl Acetal, Citral Glyceryl Acetal, Citral Propylene Glycol Acetal, Citric Acid, Citric And Fatty Acid Esters Of Glycerol, Citronellal, Citronella, Oil (Cymbopogon Nardus Rendle), Dl-Citronellol, Citronelloxyacetaldehyde, Citronellyl Acetate, Citronellyl Anthranilate, Citronellyl Butyrate, Citronellyl Formate, Citronellyl Isobutyrate, Citronellyl Phenylacetate, Citronellyl Propionate, Citronellyl Trans-2-Methyl-2-Butenoate, Citronellyl Valerate, Citrus Peels, Extract (Citrus Spp.), Citrus Red No. 2, Civet, Absolute (Viverra Civetta Schreber And Viverra Zibetha Schreber), Clary (Salvia Sclarea L.), Clary Sage, Absolute, Clary, Oil (Salvia Sclarea L.), Clary Sage, Concrete, Clay, Attapulgite, Clove Bud, Extract (Eugenia Spp.), Clove Bud, Oil (Eugenia Spp.), Clove Bud, Oleoresin (Eugenia Spp.), Clove Leaf, Oil (Eugenia Spp.), Clover (Trifolium Spp.), Clover, Extract (Trifolium Spp.), Clover Herb Distillate, Clover, Oil (Trifolium Spp.),

Clover Tops, Red, Extract Solid (Trifolium Pratense L.), Cloves (Eugenia Spp.), Clove Stem, Oil (Eugenia Spp.), Coca Leaf, Extract (Decocainized) (Erythroxylon Coca Lam.), Cochineal Extract (Coccus Cacti L.), Cocoa Butter Substitute From Coconut Oil, Palm Kernel Oil Or Both Oils, Cocoa Butter Substitute From Palm Oil, Cocoa Butter Substitute Primarily From High-Oleic Safflower Or Sunflower Oil, Cocoa Extract, Cocoa With Dioctyl Sodium Sulfosuccinate, Coconut Oil, Coconut Oil, Refined, Coffee Concentrate, Pure, Coffee Extract (Coffea Spp.), Coffee Extract, Solid, Cognac, Green, Oil, Cognac, White, Oil, Collagen, Combustion Product Gas, Copaiba (South American Spp. Of Copaifera L.), Copaiba, Oil (South American Spp. Of Copaifera L.), Copals, Manila, Copper Gluconate, Copper Sulfate, Coriander (Coriandrum Sativum L.), Coriander Leaf Oil (Coriandrum Sativum L.), Coriander, Oil (Coriandrum Sativum L.), Cork, Oak (Quercus Spp.), Corn Endosperm Oil, Corn Gluten, Corn Mint Oil, Corn Silk, Corn Silk Extract (Zea Mays L.), Corn Silk, Oil(Zea Mays L.), Cornstarch, Cornstarch, Waxy, Corn Steep Liquor, Corn Syrup, Costmary (Chrysanthemum Balsamita L.), Costus Root, Oil (Saussurea Lappa Clarke), Cottonseed Flour, Defatted, Cottonseed Flour, Partially Defatted, Cooked, Cottonseed Flour, Partially Defatted, Cooked, Toasted, Cottonseed Kernels, Glandless, Raw, Cottonseed Kernels, Glandless, Roasted, Coumarone-Indene Resins, M-Cresol, P-Cresol, O-Cresol, Crown Gum, Cubeb (Piper Cubeba L. F.), Cubeb, Oil (Piper Cubeba L. F.), Cubebol, Cumin (Cuminum Cyminum L.), Cuminaldehyde, Cumin, Oil (Cuminum Cyminum L.), Cuprous Iodide, Curdlan, Currant Buds, Black, Absolute (Ribes Nigrum L.), Currant Juice, Black, Currant Leaves, Black (Ribes Nigrum L.), Beta-Cyclodextrin, Cycloheptadeca-9-En-1-One, Cyclohexane, Cyclohexaneacetic Acid, Cyclohexanecarboxylic Acid, Cyclohexaneethyl Acetate, Cyclohexanone, Cyclohexanone Diethyl Ketal, 2-Cyclohexenone, Cyclohexyl Acetate, Cyclohexylamine, Cyclohexyl Anthranilate, Cyclohexyl Butyrate, Cyclohexyl Cinnamate, Cyclohexyl Formate, Cyclohexyl Isovalerate, Cyclohexylmethyl Pyrazine, Cyclohexyl Propionate, Cycloionone, Cyclopentanethiol, Cyclopentanone, 2-Cyclopentylcyclopentanone, Cyclopropanecarboxylic Acid (2-Isopropyl-5-Methyl-Cyclohexyl)-Amide, N-Cyclopropyl-5-Methyl-2-Isopropylcyclohexanecarboxamide, N-Cyclopropyl-Trans-2-Cis-6-Nonadienamide, Cyclotene Butyrate, Cyclotene Propionate, P-Cymene, L-Cysteine, L-Cysteine Monohydrochloride, Dl-Cystine, L-Cystine, Daidai Peel Oil, Damar Gum (Shorea Dipterocarpaceae), Alpha-Damascone, Delta-Damascone, Trans-Alpha-Damascone, Damiana

Leaves (Turnera Diffusa Willd.), Dandelion, Fluid Extract (Taraxacum Spp.), Dandelion Root, Extract Solid (Taraxacum Spp.), Davana Oil (Artemesia Pallens Wall.), 2-Trans,4-Trans-Decadienal, (E,E)-2,4-Decadien-1-Ol, Delta-Decalactone, Gamma-Decalactone, Decalepis Hamiltonii Extract, Decanal, Decanal Dimethyl Acetal, Decanal Propyleneglycol Acetal, Decanoic Acid, 1-Decanol, 3-Decanol, 3-Decanone, 2-Decanone, 2-Trans-4-Trans-7-Cis-Decatrienal, 9-Decenal, 2-Decenal, 4-Decenal, 4-Decenoic Acid, (E)-2-Decenoic Acid, 9-Decenoic Acid, 6-Decenoic Acid, 5-Decenoic Acid, 1-Decen-3-Ol, 8-Decen-5-Olide, 9-Decen-5-Olide, 7-Decen-4-Olide, 9-Decen-2-One, 3-Decen-2-One, 6-[5(6)-Decenoyloxy]Decanoic Acid, 4-Decenyl Acetate, Cis-, Decyl Acetate, Decyl Butyrate, 2-Decylfuran, Decyl Propionate, Deertongue Solid Extract, Dehydrated Beets, Dehydroacetic Acid, Dehydrodihydroionol, Dehydrodihydroionone, Dehydromenthofurolactone, Dehydronootkatone, 8,9-Dehydrotheaspirone, Desoxycholic Acid, Dextrans (Avg M W Less Than 100,000), Dextrin, Dextrose, Diacetyl, Di-N-Alkyl(C8-C18 From Coconut Oil) Dimethyl Ammonium Chloride, Diallyl Polysulfides, Diallyl Trisulfide, Diamyl Ketone, Diastase From Aspergillus Oryzae, Diatomaceous Earth, Dibenzyl Ether, 2,2-Dibromo-3-Nitrilopropionamide, 4,4-Dibutyl-Gamma-Butyrolactone, Dibutyl Sebacate, Dichlorodifluoromethane, Dicyclohexyl Disulfide, Diethanolamide Condensate From Soybean Oil Fatty Acids (C16-C18), Diethanolamide Condensate From Stripped Coconut Oil Fatty Acids(C10-C18), Diethylaminoethanol, Diethyl Disulfide, Diethylene Glycol Distearate, Diethylenetriamine, Diethylenetriamine Crosslinked With Epichlorohydrin, Diethyl Malate, Diethyl Malonate, 3,5-Diethyl-2-Methylpyrazine, 2,5-Diethyl-3-Methylpyrazine, 2,3-Diethyl-5-Methylpyrazine, 2,3-Diethylpyrazine, , Diethyl Sebacate, Diethyl Succinate, Diethyl Sulfide, Diethyl Tartrate, 2,5-Diethyltetrahydrofuran, Diethyl Trisulfide, (+/-)-Cis- And Trans-3,5-Diethyl-1,2,4-Trithiolane, Difurfuryl Ether, 2,4-Difurfurylfuran, Di-2-Furylmethane, Digeranyl Ether, Dihydro-Alpha-Ionone, Dihydrocarveol, Cis-Dihydrocarvone, Dihydrocarvyl Acetate, Dihydrocoumarin, 6,7-Dihydro-2,3-Dimethyl-5h-Cyclopentapyrazine, 4,5-Dihydro-2,5-Dimethyl-4-Oxo-3-Furanyl Butyrate, (+/-)-Dihydrofarnesol, Dihydrogalangal Acetate, Dihydro-Beta-Ionol, Dihydro-Beta-Ionone, 3,6-Dihydro-4-Methyl-2(2-Methylpropen-1-Yl)-2h-Pyran, 5,7-Dihydro-2-Methylthieno(3,4-D)Pyrimidine, (+/-)-Dihydromintlactone, Dihydronootkatone, (+/-)-Cis- And Trans-1,2-Dihydroperillaldehyde, 4,5-Dihydro-3(2h)Thiophenone, Dihydro-2,4,6-Trimethyl-4h-1,3,5-

Dithiazine, Dihydro-2,4,6-Tris(2-Methylpropyl)-4h-1,3,5-Dithiazine, Dihydroxyacetone (Dimer), Dihydroxyacetone (Monomer), Dihydroxyacetophenone, 2,4-Dihydroxybenzoic Acid, 3,4-Dihydroxybenzoic Acid, 2,5-Dihydroxy-1,4-Dithiane, 5,7-Dihydroxy-2-(3-Hydroxy-4-Methxy-Phenyl)-Chroman-4-One, 3',7-Dihydroxy-4'-Methoxyflavan, Diisoamyl Disulfide, Diisoamyl Trisulfide, Diisobutyl Adipate, Diisobutyl Ketone, Diisopentyl Thiomalate, Diisopropyl Adipate, Diisopropyl Disulfide, Diisopropyl Trisulfide, Dilauryl Thiodipropionate, Dill (Anethum Graveolens L.), Dill, Oil (Anethum Graveolens L.), Dill Seed, Indian (Anethum Spp.), Dill Seed Oil(Anethum Sowa Roxb.), Dimenthyl Glutarate, Dimercaptomethane, M-Dimethoxybenzene, P-Dimethoxybenzene, 1,2-Dimethoxybenzene, N1-(2,4-Dimethoxybenzyl)-N2-(2-(Pyridin-2-Yl) Ethyl)Oxalamide, 1,1-Dimethoxyethane, 1,1-Dimethoxy-Trans-2-Hexene, 2,6-Dimethoxyphenol, N-[2-(3,4-Dimethoxyphenyl)Ethyl]-3,4-Dimethoxycinnamic Acid Amide, 3,4-Dimethoxy-1-Vinylbenzene, 3,6-Dimethyl-2,3,3a,4,5,7a-Hexahydrobenzofuran, 2,4-Dimethylacetophenone, 1,4-Dimethyl-4-Acetyl-1-Cyclohexene, 2,4-Dimethyl-5-Acetylthiazole, Dimethyl Adipate, Dimethylamine, Dimethylamine-Epichlorohydrin Copolymer, 2,4-Dimethylanisole, 2,4-Dimethylbenzaldehyde, 2,3-Dimethylbenzofuran, P,Alpha-Dimethylbenzyl Alcohol, Dimethylbenzyl Carbinyl Crotonate, Dimethylbenzyl Carbinyl Hexanoate, Alpha,Alpha-Dimethylbenzyl Isobutyrate, 3,5-Dimethyl-1,2-Cyclopentadione, 3,4-Dimethyl-1,2-Cyclopentadione, (+/-)-Trans- And Cis-5-(2,2-Dimethylcyclopropyl)-3-Methyl-2-Pentenal, Dimethyl Dialkyl Ammonium Chloride, Dimethyl Dicarbonate, 2(3),5-Dimethyl-6,7-Dihydro-5h-Cyclopentapyrazine, 2,5-Dimethyl-2,5-Dihydroxy-1,4-Dithiane, 2,4-Dimethyl-1,3-Dioxolane, Dimethylethanolamine, 2,5-Dimethyl-4-Ethoxy-3(2h)-Furanone, 2,5-Dimethyl-4-Ethyloxazole, 4-(1,1-Dimethylethyl)Phenol, 4,5-Dimethyl-2-Ethyl-3-Thiazoline, 2,5-Dimethylfuran, 2,5-Dimethyl-3(2h)-Furanone, 2,5-Dimethyl-3-Furanthiol, 2,5-Dimethyl-3-Furanthiol Acetate, 2,6-Dimethyl-4-Heptanol, 2,6-Dimethyl-3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, 2,6-Dimethyl-5-Heptenal, 2,6-Dimethyl-5-Heptenal Propyleneglycol Acetal, 2,6-Dimethyl-6-Hepten-1-Ol, 4,5-Dimethyl-3-Hydroxy-2,5-Dihydrofuran-2-One, 3,6-Dimethyl-2-Isobutylpyrazine, 3,5-Dimethyl-2-Isobutylpyrazine, 4,5-Dimethyl-2-Isobutylthiazole, 4,5-Dimethyl-2-Isobutyl-3-Thiazoline, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3- Hydroxybenzyl)-5,5-Dimethylimidazolidine-2,4-Dione, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3- Hydroxybenzyl)Imidazolidine-2,4-Dione, (+/-)-N,N-Dimethyl Menthyl Succinamide, 2,5-

Dimethyl-3-Mercaptotetrahydrofuran, 2,5-Dimethyl-4-Methoxy-3(2h)-Furanone, 2,6-Dimethyl-10-Methylene-2,6,11-Dodecatrienal, 3,9-Dimethyl-6-(1-Methylethyl)-1,4-Dioxaspiro[4.5] Decan-2-One, 2,2-Dimethyl-5-(1-Methylpropen-1-Yl) Tetrahydrofuran, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Ol, 4,8-Dimethyl-3,7-Nonadien-2-One, Cis-, 4,8-Dimethyl-3,7-Nonadien-2-One, 4,8-Dimethyl-3,7-Nonadien-2-One, Trans-, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Yl Acetate, 2,4-Dimethyl-4-Nonanol, (E)-2-(3,7-Dimethyl-2,6-Octadienyl)Cyclopentanone, N-3,7-Dimethyl-2,6-Octadienylcyclopropylcarboxamide, 2-Trans-3,7-Dimethylocta-2,6-Dienyl 2-Ethylbutanoate, 2,6-Dimethyloctanal, 3,7-Dimethyloctanal, 3,7-Dimethyl-1-Octanol, (E)-3,7-Dimethyl-1,5,7-Octatrien-3-Ol, 3,7-Dimethyl-6-Octenoic Acid, 2,4-Dimethyl-3-Oxazoline, 2,4-Dimethyl-2-Pentenoic Acid, Alpha,Alpha-Dimethylphenethyl Acetate, Alpha,Alpha-Dimethylphenethyl Alcohol, N,N-Dimethylphenethylamine, Alpha,Alpha-Dimethylphenethyl Butyrate, Alpha,Alpha-Dimethylphenethyl Formate, Dimethylpolysiloxane, 2,5-Dimethylpyrazine, 2,6-Dimethylpyrazine, 2,3-Dimethylpyrazine, 2,6-Dimethylpyridine, 2,4-Dimethylpyridine, 2,5-Dimethylpyrrole, P,Alpha-Dimethylstyrene, Dimethyl Succinate, Dimethyl Sulfoxide, 2,5-Dimethylthiazole, 4,5-Dimethylthiazole, 2-(2-Butyl)-4,5-Dimethyl-3-Thiazoline, 2,5-Dimethyl-3-Thioisovalerylfuran, 3,4-Dimethylthiophene, 2,6-Dimethylthiophenol, Dimethyl Trisulfide, 3,5-Dimethyl-1,2,4-Trithiolane, 2,4-Dimethyl-5-Vinylthiazole, Dioctyl Adipate, Dioctyl Sodium Sulfosuccinate, Diphenyl Ether, 1,3-Diphenyl-2-Propanone, Dipotassium Phosphate, 1,1-Dipropoxyethane, Dipropyl Adipate, Dipropyl Trisulfide, Di-Sec-Butyl Disulfide, Disodium Citrate, Disodium Cyanodithioimidocarbonate, Disodium Ethylenebisdithiocarbamate, Disodium Guanylate, Disodium Inosinate, Disodium Succinate, Di-(Butan-3-One-1-Yl) Sulfide, 2,5-Dithiahexane, 1,4-Dithiane, 2,8-Dithianon-4-En-4-Carboxaldehyde, 2,2'-(Dithiodimethylene) Difuran, Dittany Of Crete (Origanum Dictamnus L.), Dittany (Fraxinella) Roots (Dictamnus Albus L.), Divanillin, Dl-Camphor, D-Limonen-10-Ol, Dl-Isoleucine, Dl-Isomenthone, Dl-Valine, Epsilon-Dodecalactone, Gamma-Dodecalactone, Delta-Dodecalactone, Dodecanal Dimethyl Acetal, (Z)-4-Dodecenal, 2-Dodecenal, 11-Dodecenoic Acid, 9-Dodecen-5-Olide, Dodecyl Butyrate, Dodecyl Gallate, Dodecyl Isobutyrate, Dodecyl Lactate, N-Dodecylmercaptan, Alpha-(P-Dodecylphenyl)-Omega-Hydroxypoly(Oxyethylene), Dodecyl Propionate, Dog Grass, Extract (Agropyron Repens (L.) Beauv.), D-8-P-Menthene-1,2-Epoxide, Dragon's Blood, Extract (Daemonorops Spp. Or Other

Botanical Sources), Dried Algae Meal, Edta, Calcium Disodium, Edta, Disodium, Edta, Disodium Iron, Edta, Tetrasodium, (2e,6e,8e)-N-(2-Methylpropyl)-2,6,8-Decatrienamide, Egg White Lysozyme, Elder Flowers (Sambucus Canadensis L. Or Sambucus Nigra L.), Elder Flowers, Extract (Sambucus Canadensis L. Or Sambucus Nigra L.), Elder Tree Leaves (Sambucus Nigra L.), Elecampane Root, Extract (Inula Helenium L.), Elecampane Root, Oil (Inula Helenium L.), Elemi, Gum, Elemi, Oil (Canarium Spp.), Enzyme-Modified Fats, Enzymes, Bacterial, Enzymes, Proteolytic, Epichlorohydrin Crosslinked With Ammonia, (+/-)-2,8-Epithio-Cis-P-Menthane, 2,3-Epoxydecanal, 4,5-Epoxy-(E)-2-Decenal, 2,3-Epoxyheptanal, 2,3-Epoxyoctanal, Epoxyoxophorone, Epsilon-Decalactone, Erigeron, Oil (Erigeron Canadensis L.), (?)-Eriodictyol, Erythorbic Acid, Esterase-Lipase From Mucor Miehei, Estragole, 1,2-Ethanedithiol, Ethane-1,1-Dithiol, Ethanesulfonic Acid, 2-(1-(Difluoro-((Trifluoroethenyl)Oxy)Methyl)-1,2,2,2-Tetrafluoroethoxy)-1,1,2,2-Tetrafluoro-, Polymer With Tetrafluoroethane, Ethanethiol, P-Ethoxybenzaldehyde, N-[(Ethoxycarbonyl)Methyl)-P-Menthane-3-Carboxamide, 2-Ethoxy-3-Ethylpyrazine, 2-Ethoxy-3-Isopropylpyrazine, 1-Ethoxy-3-Methyl-2-Butene, O-(Ethoxymethyl)Phenol, Ethoxyquin, 2-Ethoxythiazole, (+-)-Ethyl 3-Hydroxy-2-Methylbutyrate, Ethyl Abietate, Ethyl (P-Tolyloxy)Acetate, Ethyl Acetate, Ethyl 2-(Methylthio)Acetate, Ethyl Acetoacetate, Ethyl Acetoacetate Ethyleneglycol Ketal, (+/-)-Ethyl 3-Acetoxy-2-Methylbutyrate, Ethyl 5-Acetoxyoctanoate, S-Ethyl 2-Acetylaminoethanethioate, Ethyl Alpha-Acetylcinnamate, Ethyl 2-Acetylhexanoate, Ethyl 2-Acetyloctanoate, Ethyl 2-Acetyl-3-Phenylpropionate, 1-Ethyl-2-Acetylpyrrole, Ethyl 4-(Acetylthio)Butyrate, Ethyl Aconitate (Mixed Esters), Ethyl Acrylate, Ethyl Alcohol, Ethylamine, Ethyl P-Anisate, Ethyl Anthranilate, 4-Ethylbenzaldehyde, Ethyl Benzoate, Ethyl Benzoylacetate, Ethyl Brassylate, 2-Ethylbutyl Acetate, 2-Ethylbutyraldehyde, Ethyl Butyrate, Ethyl 3-(Methylthio)Butyrate, 2-Ethylbutyric Acid, Ethyl Cellulose, Ethyl Cinnamate, Ethyl Crotonate, Ethyl Cyclohexanecarboxylate, Ethyl Cyclohexanepropionate, Ethyl Trans-2,Cis-4-Decadienoate, Ethyl Decanoate, Ethyl 2,4,7-Decatrienoate, Ethyl Trans-2-Decenoate, Ethyl Trans-4-Decenoate, Ethyl 4,5-Dihydro-2,5-Dimethyl-4-Oxo-3-Furancarboxylate, 2-Ethyl-2,5-Dihydro-4-Methylthiazole, 4-Ethyl-2,6-Dimethoxyphenol, 2(4)-Ethyl-4(2),6-Dimethyldihydro-1,3,5-Dithiazine (Mixture Of Isomers), 2-Ethyl-4,5-Dimethyloxazole, 3-Ethyl-2,6-Dimethylpyrazine, 5-Ethyl-2,3-Dimethylpyrazine, Ethyl 2,4-Dioxohexanoate, Ethylenediamine,

Ethylenediaminetetraacetic Acid Disodium Salt, Ethylene Dichloride, Ethylene Glycol Distearate, Ethylene Glycol Monobutyl Ether, Ethylene Glycol Monoethyl Ether, Ethylene Glycol Monophenyl Ether, Ethylene Oxide, Ethylene Oxide Polymer, Ethylene Oxide Polymer, Alkyl Adduct, Ethylene Oxide Polymer, Alkyl Adduct, Phosphate Ester, Ethylene Oxide/Propylene Oxide Copolymer (Avg M W 9,760 - 13,200), Ethylene Oxide/Propylene Oxide Copolymer (Min Avg M W 1,900), Ethylene Oxide/Propylene Oxide Copolymer (Avg M W 14,000), Ethylene Oxide/Propylene Oxide Copolymer, Ethylene Oxide/Propylene Oxide Copolymer (Avg M W 3,500-4,125), Ethylene Oxide/Propylene Oxide Copolymer, Alkyl Adduct, Ethylene Oxide/Propylene Oxide Copolymer, Alkyl Adduct, Phosphate Ester, Ethyl Esters Of Fatty Acids (Edible), Ethyl N-Ethylanthranilate, Ethyl 2-Ethylbutyrate, Ethyl 2-Ethylhexanoate, Ethyl Alpha-Ethyl-Beta-Methyl-Beta-Phenylglycidate, Ethyl 2-Ethyl-3-Phenylpropanoate, Ethyl 3-(Ethylthio)Butyrate, Ethyl Formate, 2-Ethylfuran, Ethyl 2-Furanpropionate, Ethyl Furfuryl Ether, Ethyl 3-(Furfurylthio) Propionate, Ethyl 3-(2-Furyl)Acrylate, 4-Ethylguaiacol, Ethyl Heptanoate, 2-Ethyl-2-Heptenal, Ethyl 4-Heptenoate, Cis-, 2-Ethylhexanethiol, Ethyl Hexanoate, 2-Ethyl-1-Hexanol, 2-Ethyl-2-Hexenal, Ethyl Cis-3-Hexenoate, Ethyl 5-Hexenoate, Ethyl 3-Hexenoate, Ethyl 2-Hexenoate, 2-Ethylhexyl Benzoate, 2-Ethylhexyl 3-Mercaptopropionate, 1-Ethylhexyl Tiglate, Ethyl 3-Hydroxybutyrate, 3-Ethyl-2-Hydroxy-2-Cyclopenten-1-One, Ethyl 5-Hydroxydecanoate, Ethyl 2-Hydroxyethyl Sulfide, Ethyl 3-Hydroxyhexanoate, (+/-)-Ethyl 2-Hydroxy-2-Methylbutyrate, 3-Ethyl-2-Hydroxy-4-Methylcyclopent-2-En-1-One, 5-Ethyl-2-Hydroxy-3-Methylcyclopent-2-En-1-One, 5-Ethyl-3-Hydroxy-4-Methyl-2(5h)-Furanone, 2-Ethyl-4-Hydroxy-5-Methyl-3(2h)-Furanone, (+/-)-Ethyl 2-Hydroxy-3-Methylvalerate, Ethyl 3-Hydroxyoctanoate, Ethyl 5-Hydroxyoctanoate, Ethyl 2-Hydroxy-3-Phenylpropionate, Ethyl Isobutyrate, N-Ethyl-2-Isopropyl-5-Methylcyclohexane Carboxamide, Ethyl Isothiocyanate, Ethyl Isovalerate, Ethyl Lactate, Ethyl Laurate, Ethyl Levulinate, Ethyl Levulinate Propyleneglycol Ketal, Ethyl Linalyl Ether, Ethyl Maltol, Ethyl Maltol Isobutyrate, Ethyl 3-Mercaptobutyrate, (+-)-Ethyl 3-Mercapto-2-Methylbutanoate, Ethyl 2-Mercapto-2-Methylpropionate, Ethyl 3-Mercaptopropionate, Ethyl 2-Mercaptopropionate, Ethyl N-Methylanthranilate, Ethyl 2-Methylbutyrate, Ethyl Methyl Disulfide, Ethyl 2-Methyl-3,4-Pentadienoate, Ethyl 4-Methylpentanoate, Ethyl 3-Methylpentanoate, Ethyl 2-Methylpentanoate, Ethyl 2-Methyl-3-Pentenoate, Ethyl 2-Methyl-4-Pentenoate, 3-Ethyl-2-

Methylpyrazine, 2-Ethyl-6-Methylpyrazine, 2-Ethyl-5-Methylpyrazine, 5-Ethyl-2-Methylpyridine, 5-Ethyl-2-Methylthiazole, 2-Ethyl-4-Methylthiazole, Ethyl 4-(Methylthio) Butyrate, Ethyl 3-(Methylthio)-Cis-2-Propenoate, Ethyl 3-(Methylthio)-2-Propenoate, Ethyl 3-Methylthiopropionate, 2-Ethyl-3-Methylthiopyrazine, Ethyl 3-(Methylthio)-Trans-2-Propenoate, Ethyl 5-(Methylthio)Valerate, Ethyl Methyl-P-Tolylglycidate, 2-Ethyl-(3 Or 5 Or 6)-Mop(85%) And 2-Methyl-(3 Or 5 Or 6)-Mop(13%), Ethyl Myristate, Ethyl Nitrite, N-Ethyl Trans-2-Cis-6-Nonadienamide, Ethyl Nonanoate, Ethyl 2-Nonynoate, Ethyl Octadecanoate, Ethyl Cis-4,7-Octadienoate, (+/-)-4-Ethyloctanal, Ethyl Octanoate, 4-Ethyloctanoic Acid, Ethyl Cis-4-Octenoate, Ethyl 3-Octenoate, Ethyl Trans-2-Octenoate, Ethyl Oleate, 2-Ethyl-3,(5 Or 6)-Dimethylpyrazine, Ethyl 5-Oxodecanoate, Ethyl 3-Oxohexanoate, Ethyl Palmitate, Ethyl 4-Pentenoate, P-Ethylphenol, Ethyl Phenylacetate, Ethyl 4-Phenylbutyrate, Ethyl 3-Phenylglycidate, Ethyl 3-Phenylpropionate, Ethyl Propionate, Ethyl 2-(Methyldithio)Propionate, Ethyl Propyl Disulfide, Ethyl Propyl Trisulfide, 2-Ethylpyrazine, 3-Ethylpyridine, 1-Ethyl-2-Pyrrolecarboxaldehyde, Ethyl Pyruvate, Ethyl Salicylate, Ethyl Sorbate, Ethyl Thioacetate, (+/-)-3-(Ethylthio)Butanol, 2-Ethylthiophenol, Ethyl Tiglate, Ethyl Trans-2-Hexenoate, Ethyl Trans-2-Methyl-2-Pentenoate, 2-Ethyl-1,3,3-Trimethyl-2-Norbornanol, Ethyl Undecanoate, Ethyl 10-Undecenoate, Ethyl Valerate, Ethyl Vanillin, Ethyl Vanillin Beta-D-Glucopyranoside, Ethyl Vanillin Isobutyrate, Ethyl Vanillin Propylene Glycol Acetal, Eucalyptol, Eucalyptus, Oil (Eucalyptus Globulus Labille), Eugenol, Eugenyl Acetate, Eugenyl Benzoate, Eugenyl Formate, Eugenyl Isovalerate, Eugenyl Methyl Ether, (2e,6z,8e)-N-(2-Methylpropyl)-2,6,8-Decatrienamide, Farnesal, Farnesene, Farnesol, Fatty Acids, Fatty Alcohols, Synthetic, Fd&C Blue No. 2, Fd&C Blue No. 1, Fd&C Blue No. 2, Aluminum Lake, Fd&C Blue No. 1, Aluminum Lake, Fd&C Blue No. 2, Calcium Lake, Fd&C Blue No. 1, Calcium Lake, Fd&C Green No. 3, Fd&C Green No. 3, Aluminum Lake, Fd&C Green No. 3, Calcium Lake, Fd&C Red No. 40, Fd&C Red No. 3, Fd&C Red No. 40, Aluminum Lake, Fd&C Red No. 3, Fd&C Red No. 40, Calcium Lake, Fd&C Red No. 3, Fd&C Yellow No. 6, Fd&C Yellow No. 5, Fd&C Yellow No. 5, Aluminum Lake, Fd&C Yellow No. 6, Aluminum Lake, Fd&C Yellow No. 5, Calcium Lake, Fd&C Yellow No. 6, Calcium Lake, D-Fenchone, Fenchyl Alcohol, Fennel, Common (Foeniculum Vulgare Mill.), Fennel, Sweet (Foeniculum Vulgare Mill. Var. Dulce (D.C.) Alef.), Fennel, Sweet, Oil (Foeniculum Vulgare Mill. Var. Dulce (D.C.) Alef.), Fenugreek

(Trigonella Foenum-Graecum L.), Fenugreek, Extract (Trigonella Foenum-Graecum L.), Fenugreek, Oleoresin (Trigonella Foenum-Graecum L.), Ferric Ammonium Citrate, Brown, Ferric Chloride, Ferric Citrate, Ferric Oxide, Ferric Peptonate, Ferric Phosphate, Ferric Pyrophosphate, Ferric Sodium Pyrophosphate, Ferric Sulfate, Ferrocyanide Salts, Ferrous Ascorbate, Ferrous Carbonate, Ferrous Citrate, Ferrous Fumarate, Ferrous Gluconate, Ferrous L-Lactate, Ferrous Lactate, Ferrous Peptonate, Ferrous Sulfate, Ficin, Fir (Pine) Needles And Twigs (Abies Sibirica Ledeb.), Fir Needles And Twigs, Oil (Abies Spp.), Fish Oil (Hydrogenated), Fish Protein Concentrate, Whole, Fish Protein Isolate, Folic Acid, Formaldehyde, Formic Acid, 2-Formyl-6,6-Dimethylbicyclo(3.1.1)Hept-2-Ene, 4-Formyl-2-Methoxyphenyl 2-Hydroxypropanoate, Fruit Juice, Fullers Earth, Fumaric Acid, Fungal Hemicellulase, Fungal Pectinase, 2-Furanmethanethiol Formate, 4-((Furanmethyl)Thio)-2-Pentanone, Furcelleran, Ammonium Salt of Furcelleran, , Furcelleran And Salts Of Furcelleran, Calcium Salt of Furcelleran, Potassium Salt of Furcelleran, Sodium Salt of Furcelleran, Furfural, Furfural Propyleneglycol Acetal, Furfuryl Acetate, Furfuryl Alcohol, Furfuryl Butyrate, Furfuryl Decanoate, Furfuryl Formate, 2-Furfurylidenebutyraldehyde, Furfuryl Isopropyl Sulfide, Furfuryl Mercaptan, Furfuryl 3-Methylbutanoate, Furfuryl Methyl Ether, Furfuryl 2-Methyl-3-Furyl Disulfide, Furfuryl Methyl Sulfide, Alpha-Furfuryl Octanoate, Alpha-Furfuryl Pentanoate, Furfuryl Propionate, Furfuryl Propyl Disulfide, N-Furfurylpyrrole, Furfuryl Thioacetate, 1-(2-Furfurylthio)Propanone, Furfuryl Thiopropionate, 3-(2-Furoylthio)-2,5-Dimethylfuran, 1-(2-Furyl)-1,3-Butanedione, 1-(2-Furyl)Butan-3-One, 4-(2-Furyl)-3-Buten-2-One, 2-Furyl Methyl Ketone, Fusel Oil, Refined, Alpha-Galactosidase From Morteirella Vinaceae Raffinoseutilizer, Galanga, Greater (Alpinia Galanga Willd), Galangal Root (Alpinia Spp.), Galangal Root, Extract (Alpinia Spp.), Galangal Root, Oil (Alpinia Spp.), Galbanum, Oil (Ferula Spp.), Galbanum, Resin (Ferula Spp.), Gambir (Uncaria Gambir Roxb.), Gardenia Gummifera Distillate, Garlic, Garlic Extract, Garlic Oil (Allium Sativum L.), Dehydrated Garlic, Garlic Powder, Gelatin, Gellan Gum, Genet Absolute (Spartium Junceum L.), Genet Extract (Spartium Junceum L.), Gentian Root Extract (Gentiana Lutea L.), Gentian, Stemless (Gentiana Acaulis L.), Geranic Acid, Geraniol, Geranium (Pelargonium Spp.), Geranium, East Indian, Extract (Cymbopogon Martini Stapf.), Geranium, East Indian, Oil (Cymbopogon Martini Stapf.), Geranium Extract (Pelargonium Spp.), Geranium, Oil (Pelargonium Spp.), Geranium, Rose, Oil (Pelargonium

Graveolens L'her.), Geranyl Acetate, Geranyl Acetoacetate, Geranyl Acetone, Geranyl Benzoate, Geranyl Butyrate, Geranyl Formate, Geranyl Hexanoate, Geranyl Isobutyrate, Geranyl Isovalerate, Geranyl 2-Methylbutyrate, Geranyl Phenylacetate, Geranyl Propionate, Geranyl Tiglate, Geranyl Valerate, Germander, Chamaedrys (Teucrium Chamaedrys L.), Germander, Chamaedrys, Extract (Teucrium Chamaedrys L.), Germander, Chamaedrys, Extract Solid (Teucrium Chamaedrys L.), Germander, Golden (Teucrium Polium L.), Ghatti, Gum (Anogeissus Latifolia Wall.), Gibberellic Acid & Potassium Gibberellate, Ginger (Zingiber Officinale Rosc.), Ginger, Extract (Zingiber Officinale Rosc.), Ginger, Oil (Zingiber Officinale Rosc.), Ginger, Oleoresin (Zingiber Officinale Rosc.), D-Gluconic Acid, Glucono-Delta Lactone, N-Gluconyl Ethanolamine, N-Gluconyl Ethanolamine Phosphate, Glucose Isomerase From Bacillus Coagulans, Glucose Isomerase From Immobilized Arthrobacter Globiformis, Glucose Isomerase From Streptomyces Olivaceus, Glucose Isomerase From Streptomyces Olivochromogenes, Glucose Isomerase From Streptomyces Rubiginosus, Glucose Oxidase Catalase Preparation, Glucose Oxidase From Aspergillus Niger, Glucose Oxidase From Penicillium Notatum, Glucose Pentaacetate, Glucosidase From Aspergillus Flavus, Glucosidase From Aspergillus Niger, Glucosidase From Aspergillus Oryzae, L-Glutamic Acid, Glutamic Acid Hydrochloride, L-Glutamine, Gamma-Glutamyl-Valyl-Glycine, Glutaraldehyde, Gluten, Gum, Glycerin, Glycerin, Synthetic, Glycerol Tributyrate, Glyceryl Behenate, Glyceryl 5-Hydroxydecanoate, Glyceryl 5-Hydroxydodecanoate, Glyceryl-Lacto Esters Of Fatty Acids, Glyceryl Lactooleate, Glyceryl Lactopalmitate, Glyceryl Monooleate, Glyceryl Monostearate, Glyceryl Palmitostearate, Glyceryl Tribenzoate, Glyceryl Tripropanoate, Glyceryl Tristearate, Glycine, Glycocholic Acid, Glycyrrhizin, Ammoniated (Glycyrrhiza Spp.), Grains Of Paradise (Aframomum Melegueta (Rosc.) K. Schum.), Grape Color Extract, Grape Essence, Natural, Grapefruit Essence, Natural, Grapefruit, Extract, Grapefruit, Juice, Grapefruit, Oil (Citrus Paradisi Macf.), Grapefruit Oil, Conc., Grapefruit, Oil, Terpeneless (Citrus Paradisi), Grape Seed Extract, Grape Skin Extract, Ground Limestone, Guaiac Gum (Guaiacum Spp.), Guaiac Gum, Extract (Guaiacum Spp.), Guaiacol, Guaiacol Butyrate, Guaiacol Propionate, Guaiac Wood, Extract (Guaiacum Spp.), Guaiac Wood, Oil (Guaiacum Spp.), Guaiacyl Acetate, Guaiacyl Isobutyrate, Guaiacyl Phenylacetate, Guaiene, Guaiol Acetate, Guarana, Gum (Paullinia Cupana Hbk), Guarana Seed, Extract, Guar, Gum (Cyamopsis Tetragonolobus (L.)), Guava (Psidium

Spp.), Guava Extract, Gum Arabic, Hydrogen Octenylbutane Dioate, Gutta Hang Kang (Palaquium Leiocarpum Boerl. And P. Oblongifolium Burck.), Haematococcus Algae Meal, Haw Bark, Black, Extract (Viburnum Prunifolium L.), Heliopsis Longipes Extract, Helium, Hemlock (Tsuga Spp.), Hemlock Needles And Twigs, Oil (Tsuga Spp.), 2,4-Heptadienal, Trans-2-Trans-4-Heptadien-1-Ol, Gamma-Heptalactone, Heptanal, Heptanal Dimethyl Acetal, Heptanal Glyceryl Acetal (Mixed 1,2 And 1,3 Acetals), Heptanal Propyleneglycol Acetal, 2,3-Heptanedione, 2-Heptanethiol, Heptane-1-Thiol, Heptanoic Acid, 2-Heptanol, 3-Heptanol, 2-Heptanone, 3-Heptanone, 4-Heptanone, N-(Heptan-4-Yl)Benzo[D][1,3]Dioxole-5-Carboxamide, 2-Heptenal, 4-Heptenal Diethyl Acetal, (E)-2-Heptenoic Acid, (+/-)-1-Hepten-3-Ol, (Z)-4-Hepten-1-Ol, 3-Hepten-2-One, 2-Hepten-4-One, Hept-Trans-2-En-1-Yl Acetate, Hept-2-En-1-Yl Isovalerate, Trans-3-Heptenyl 2-Methylpropanoate, 3-Heptyl Acetate, Heptyl Acetate, Heptyl Alcohol, Heptyl Butyrate, 2-Heptyl Butyrate, Heptyl Cinnamate, Cis- And Trans-2-Heptylcyclopropanecarboxylic Acid, 3-Heptyldihydro-5-Methyl-2(3h)-Furanone, Heptyl Formate, 2-Heptylfuran, Heptyl Heptanoate, Heptyl Isobutyrate, Heptyl Octanoate, Heptylparaben, Hesperidin, Delta-Hexadecalactone, Omega-6-Hexadecenlactone, Hexadecyl Lactate, Trans, Trans-2,4-Hexadienal, 2,4-Hexadien-1-Ol, 2,4-Hexadienyl Acetate, 2,4-Hexadienyl Butyrate, 2,4-Hexadienyl Isobutyrate, 2,4-Hexadienyl Propionate, Delta-Hexalactone, Gamma-Hexalactone, Hexanal, Hexanal Butane-2,3-Diol Acetal, Hexanal Dihexyl Acetal, Hexanal Hexyl Isoamyl Acetal, Hexanal Octane-1,3-Diol Acetal, Hexane, 2,3-Hexanedione, 3,4-Hexanedione, 1,6-Hexanedithiol, 1-Hexanethiol, Hexanoic Acid, 3-Hexanol, 3-Hexanone, Cis-3-Hexenal, Trans-4-Hexenal, 3-Hexenal, Cis-4-Hexenal, Trans-3-Hexenal, 2-Hexenal, (+/-)-Trans- And Cis-2-Hexenal Glyceryl Acetal, (E)-2-Hexenal Diethyl Acetal, 4-Hexene-3-One, (Z)-3-Hexenyl (E)-2-Hexenoate, Trans-2-Hexenoic Acid, 3-Hexenoic Acid, 1-Hexen-3-Ol, 2-Hexen-1-Ol, 4-Hexen-1-Ol, 5-Hexenol, (Z)-2-Hexen-1-Ol, (Z)-3-Hexenyl Anthranilate, Cis-3-Hexenyl Benzoate, (E)-2-Hexenyl Butyrate, 3-Hexenyl Crotonate, Cis-, (E)-2-Hexenyl Formate, 2-Hexenyl Hexanoate, Trans-, (Z)-3-Hexenyl Isobutyrate, 5-Hexenyl Isothiocyanate, (E)-2-Hexenyl Isovalerate, 3-Hexenyl Isovalerate, Cis-3-Hexenyl Lactate, 3-Hexenyl 2-Methylbutyrate, 2-Hexenyl Octanoate, 3-Hexenyl Phenylacetate, (E)-2-Hexenyl Propionate, Cis-3 & Trans-2-Hexenyl Propionate, (Z)-3-Hexenyl Propionate, (Z)-3-Hexenyl Pyruvate, (Z)-3-Hexenyl Valerate, (E)-2-Hexenyl Valerate, Hexyl Acetate, 2-Hexyl-4-

Acetoxytetrahydrofuran, Hexyl Alcohol, Hexylamine, Hexyl Benzoate, N-Hexyl 2-Butenoate, Hexyl Butyrate, Alpha-Hexylcinnamaldehyde, Hexyl Decanoate, 2-Hexyl-4,5-Dimethyl-1,3-Dioxolane, Hexyl Formate, Hexyl 2-Furoate, Hexyl Heptanoate, Hexyl Hexanoate, Hexyl Trans-2-Hexenoate, 2-Hexylidene Cyclopentanone, 2-Hexylidenehexanal, Hexyl Isobutyrate, Hexyl Isothiocyanate, Hexyl Isovalerate, 2-Hexyl-5 Or 6-Keto-1,4-Dioxane, Hexyl 3-Mercaptobutanoate, Hexyl 2-Methylbutyrate, Hexyl 2-Methyl-3(Or 4)-Pentenoate, Hexyl Nonanoate, Hexyl Octanoate, Hexyl Phenylacetate, Hexyl Propionate, 2-Hexylthiophene, Hickory Bark, Extract (Carya Spp.), Hickory Smoke Dist., High Fructose Corn Syrup, L-Histidine, (-)-Homoeriodictyol, Sodium Salt, Honeysuckle Extract, Hops, Extract (Humulus Lupulus L.), Hops Extract, Modified, Hops, Extract Solid (Humulus Lupulus L.), Hops, Oil (Humulus Lupulus L.), Horehound Extract (Marrubium Vulgare L.), Horehound (Marrubium Vulgare L.), Horehound Solid, Extract, Horsemint Leaves, Extract (Monarda Spp.), Horseradish (Armoracia Lapathifolia Gilib.), Horseradish Oil, Hyacinth, Absolute (Hyacinthus Orientalis L.), Hyacinth Flowers (Hyacinthus Orientalis L.), Hydratropic Aldehyde Propylene Glycol Acetal, Hydrazine, Hydrochloric Acid, Hydrogen Peroxide, Hydrogen Sulfide, Hydroquinone Monoethyl Ether, Hydroxyacetone, 4-Hydroxyacetophenone, 2-Hydroxyacetophenone, 4-Hydroxybenzaldehyde, 4-Hydroxybenzoic Acid, 3-Hydroxybenzoic Acid, 4-Hydroxybenzyl Alcohol, 4-Hydroxybutanoic Acid Lactone, 1-Hydroxy-2-Butanone, 4-Hydroxy-2-Butenoic Acid Gamma-Lactone, 6-Hydroxycarvone, Hydroxycitronellal, Hydroxycitronellal Diethyl Acetal, Hydroxycitronellal Dimethyl Acetal, Hydroxycitronellal Propyleneglycol Acetal, Hydroxycitronellol, 2-Hydroxy-2-Cyclohexen-1-One, 5-Hydroxy-2,4-Decadienoic Acid Delta-Lactone, 5-Hydroxy-2-Decenoic Acid Delta-Lactone, 5-Hydroxy-7-Decenoic Acid Delta-Lactone, 6-Hydroxydihydrotheaspirane, 4-Hydroxy-3,5-Dimethoxybenzaldehyde, 4-Hydroxy-2,5-Dimethyl-3(2h)-Furanone, 4-Hydroxy-2,3-Dimethyl-2,4-Nonadienoic Acid Gamma Lactone, 6-Hydroxy-3,7-Dimethyloctanoic Acid Lactone, (Z)-4-Hydroxy-6-Dodecenoic Acid Lactone, 5-Hydroxy-2-Dodecenoic Acid Lactone, 1-Hydroxyethylidene-1,1-Diphosphonic Acid, 4-Hydroxy-4-(3-Hydroxy-1-Butenyl)-3,5,5-Trimethyl-2-Cyclohexen-1-One, Hydroxy(4-Hydroxy-3-Methoxyphenyl)Acetic Acid, 1-(2-Hydroxy-4-Isobutoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, Hydroxylated Lecithin, 2-Hydroxy-4-Methoxybenzaldehyde, N-(4-Hydroxy-3-Methoxybenzyl)-8-Methyl-6-Nonenamide, 1-(4-Hydroxy-3-Methoxyphenyl)Decan-3-One, 1-(2-

Hydroxy-4-Methoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, 2-Hydroxy-5-Methylacetophenone, 2-Hydroxy-4-Methylbenzaldehyde, 2-(2-Hydroxy-4-Methyl-3-Cyclohexenyl)Propionic Acid Gamma-Lactone, 4-Hydroxy-4-Methyl-7-Cis-Decanoic Acid Gamma Lactone, 2-Hydroxymethyl-6,6-Dimethylbicyclo(3.1.1)Hept-2-Enyl Formate, 4-Hydroxymethyl-2,6-Di-Tertbutylphenol, 10-Hydroxymethylene-2-Pinene, 4-Hydroxy-5-Methyl-3(2h)-Furanone, 3-(Hydroxymethyl)-2-Heptanone, 5-Hydroxy-4-Methylhexanoic Acid Delta-Lactone, 3-Hydroxy-5-Methyl-2-Hexanone, 2-Hydroxy-5-Methyl-3-Hexanone, 4-Hydroxy-4-Methyl-5-Hexenoic Acid Gamma Lactone, (?)-3-Hydroxy-3-Methyl-2,4-Nonanedione, 4-Hydroxy-3-Methyloctanoic Acid Lactone, 1-Hydroxy-4-Methyl-2-Pentanone, 1-(3-Hydroxy-5-Methyl-2-Thienyl)Ethanone, Hydroxynonanoic Acid, Delta-Lactone, 3-Hydroxy-2-Octanone, 5-Hydroxy-4-Octanone, 3-Hydroxy-2-Oxopropionic Acid, 3-Hydroxy-2-Pentanone, 4-Hydroxy-3-Pentenoic Acid Lactone, 4-(P-Hydroxyphenyl)-2-Butanone, 3-Hydroxy-4-Phenylbutan-2-One, 2-(2-Hydroxyphenyl) Cyclopropanecarboxylic Acid Delta Lactone, 1-(2-Hydroxyphenyl)-3-(Pyridin-4-Yl)Propan-1-One, (+/-)-2-Hydroxypiperitone, L-Hydroxyproline, Hydroxypropyl Cellulose, Hydroxypropyl Methylcellulose, 2-Hydroxy-3,5,5-Trimethyl-2-Cyclohexenone, 5-Hydroxyundecanoic Acid Lactone, 5-Hydroxy-8-Undecenoic Acid Delta-Lactone, Hyssop, Extract (Hyssopus Officinalis L.), Hyssop (Hyssopus Officinalis L.), Hyssop, Oil (Hyssopus Officinalis L.), Iceland Moss (Cetraria Islandica Ach.), Immortelle, Absolute (Helichrysum Angustifolium Dc), Immortelle, Extract (Helichrysum Angustifolium Dc.), Imperatoria (Peucedanum Ostruthium (L.) Koch (Imperatoria Ostruthium L.)), Indole, Inositol, Insoluble Glucose Isomerase Enzyme Preparations, Invertase From Saccharomyces Cerevisiae, Invert Sugar, Invert Sugar Syrup, Alpha-Ionene, Ion Exchange Membranes, Ion Exchange Resin, Beta-Ionol, Alpha-Ionol, Beta-Ionone, Gamma-Ionone, Alpha-Ionone, Beta-Ionone Epoxide, Beta-Ionyl Acetate, Iron Ammonium Citrate, Iron Caprylate, Iron-Choline Citrate Complex, Iron Citrate, Alpha-Irone, Iron, Elemental, Iron Linoleate, Iron Naphthenate, Iron Oxide, Iron Peptonate, Iron Polyvinylpyrrolidone, Iron Tallate, Isoambrettolide, Isoamyl Acetate, Isoamyl Acetoacetate, Isoamyl Alcohol, Isoamyl Benzoate, Isoamyl Butyrate, Isoamyl Cinnamate, Isoamyl Formate, Isoamyl 4-(2-Furan)Butyrate, Isoamyl 3-(2-Furan)Propionate, Isoamyl Hexanoate, Isoamyl Isobutyrate, Isoamyl Isothiocyanate, Isoamyl Isovalerate, Isoamyl Laurate, Isoamyl Levulinate, Isoamyl 2-Methylbutyrate, Isoamyl Nonanoate, Isoamyl Octanoate, Isoamyl Phenethyl Ether,

Isoamyl Phenylacetate, Isoamyl Propionate, Isoamyl Pyruvate, Isoamyl Salicylate, Isoborneol, Isobornyl Acetate, Isobornyl Formate, Isobornyl Isobutyrate, Isobornyl Isovalerate, Isobornyl 2-Methylbutyrate, Isobornyl Propionate, Isobutane, Isobutyl Acetate, Isobutyl Acetoacetate, Isobutyl Alcohol, Isobutylamine, Isobutyl Angelate, Isobutyl Anthranilate, Isobutyl Benzoate, Isobutyl 2-Butenoate, Isobutyl Butyrate, Isobutyl Cinnamate, N-Isobutyldeca-Trans-2-Trans-4-Dienamide, 2(4)-Isobutyl-4(2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, 2-Isobutyl-4,5-Dimethyloxazole, Isobutylene-Isoprene Copolymer, Isobutyl Formate, Isobutyl 2-Furanpropionate, Isobutyl Heptanoate, Isobutyl Hexanoate, Isobutyl Isobutyrate, Isobutyl Isothiocyanate, 2-Isobutyl-3-Methoxypyrazine, Isobutyl N-Methylanthranilate, 2-Isobutyl-3-Methylpyrazine, (+/-)-Isobutyl 3-Methylthiobutyrate, Isobutyl Phenylacetate, Isobutyl Propionate, Isobutyl Salicylate, 2-Isobutylthiazole, Isobutyl 10-Undecenoate, Isobutyraldehyde, Isobutyric Acid, Isocyclocitral, Isoeugenol, Isoeugenyl Acetate, Isoeugenyl Benzyl Ether, Isoeugenyl Ethyl Ether, Isoeugenyl Formate, Isoeugenyl Methyl Ether, Isoeugenyl Phenylacetate, Isojasmone, L-Isoleucine, Alpha-Isomethylionone, Beta-Isomethylionone, Alpha-Isomethylionyl Acetate, Isoparaffinic Petroleum Hydrocarbons, Synthetic, Isopentylamine, Isopentylideneisopentylamine, Isophorone, Isopropenyl Acetate, 5-Isopropenyl-2-Methyl-2-Vinyltetrahydrofuran, 3-Isopropenyl-6-Oxoheptanoic Acid, 3-Isopropenylpentanedioic Acid, Isopropenylpyrazine, Isopropyl Acetate, P-Isopropylacetophenone, Isopropyl Alcohol, Isopropylamine, Isopropyl Benzoate, P-Isopropylbenzyl Alcohol, Isopropyl Butyrate, Isopropyl Cinnamate, Isopropyl Citrate, Isopropyl-2-Cyclohexenone, 5-Isopropyl-2,6-Diethyl-2-Methyltetrahydro-2h-Pyran, 2(4)-Isopropyl-4(2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, Isopropyl Formate, Isopropyl Hexanoate, Isopropylideneglyceryl 5-Hydroxydecanoate, Isopropyl Isobutyrate, Isopropyl Isothiocyanate, Isopropyl Isovalerate, S-Isopropyl 3-Methylbut-2-Enethioate, Isopropyl 2-Methylbutyrate, 2-Isopropyl-5-Methyl-2-Hexenal, (+/-)-[R-(E)]-5-Isopropyl-8-Methylnona-6,8-Dien-2-One, 2-Isopropyl-4-Methylthiazole, Isopropyl Myristate, Isopropyl Palmitate, 2-Isopropylphenol, P-Isopropylphenylacetaldehyde, Isopropyl Phenylacetate, 3-(P-Isopropylphenyl)Propionaldehyde, Isopropyl Propionate, 2-Isopropylpyrazine, Isopropyl Tiglate, 2-Isopropyl-N,2,3-Trimethylbutyramide, Isopulegol, Isopulegone, Isopulegyl Acetate, Isoquercitrin, Enzymatically Modified, Isoquinoline, Isovaleraldehyde Diethyl Acetal, Isovaleraldehyde Glyceryl Acetal, Isovaleric Acid, Iva

(Achillea Moschata Jacq.), Iva, Extract (Achillea Moschata Jacq.), Jambu Oleoresin, Japan Wax, Jasmine, Absolute (Jasminum Spp.), Jasmine, Concrete (Jasminum Spp.), Jasmine, Oil (Jasminum Grandiflorum L.), Jasmine, Spiritus (Jasminum Grandiflorum L.), Jasmone, Cis-, Jelutong (Dyera Costulata Hook, F. And D. Lowii Hook, F.), Juniper (Berries) (Juniperus Communis L.), Juniper, Extract (Juniperus Communis L.), Juniper Oil (Juniperus Communis L.), Karaya, Gum (Sterculia Urens Roxb.), Kelp, 2-Keto-4-Butanethiol, Alpha-Ketobutyric Acid, Kola Nut, Extract (Cola Acuminata Schott Et Endl.), Labdanum, Absolute (Cistus Spp.), Labdanum, Oil (Cistus Spp.), Labdanum, Oleoresin (Cistus Spp.), Lactalbumin, Lactalbumin Phosphate, Lactase From Saccharomyces Fragilis, Lactase From Saccharomyces (Kluyveromyces) Lactis, Lactase Preparation, Candida Pseudotropicalis, Lactic Acid, Lactose, Lactose, Hydrolyzed, N-Lactoyl Ethanolamine, N-Lactoyl Ethanolamine Phosphate, Lactylated Fatty Acid Esters Of Glycerol And Propylene Glycol, Lactylic Esters Of Fatty Acids, Lanolin, Lard, Lard Oil, Laurel Berries (Laurus Nobilis L.), Lauric Acid, Lauric Aldehyde, Lauroyl Diethanolamide, Lauryl Acetate, Lauryl Alcohol, Lavandin Absolute, Lavandin, Concrete, Lavandin, Oil, Lavender, Absolute (Lavandula Officinalis Chaix), Lavender, Concrete (Lavandula Officinalis Chaix), Lavender (Lavandula Officinalis Chaix), Lavender, Oil (Lavandula Officinalis Chaix), Lavender, Spike (Lavandula Latifolia Bill.), Lavender, Spike, Oil (Lavandula Spp.), Leche Caspi (Couma Macrocarpa Barb. Rodr.), Leche De Vaca (Brosimum Utile (H.B.K.) Pittier, And Poulsenia Spp.), Lecithin, Lecithin, Benzoyl Peroxide Modified, Lecithin, Enzyme-Modified, Lecithin, Hydrogen Peroxide Modified, Lecithin (Vegetable), Leek Oil, Lemon Essence, Lemon, Extract (Citrus Limon (L.) Burm. F.), Lemon Grass, Oil (Cymbopogon Citratus Dc. And Cymbopogon Flexuosusstapf), Lemon, Juice, Lemon, Oil (Citrus Limon (L.) Burm. F.), Lemon, Oil, Terpeneless (Citrus Limon (L.) Burm. F.), Lemon Peel Extract, Lemon Peel Granules, Lemon Terpenes, Lemon-Verbena (Lippia Citriodora Hbk.), Lemon Verbena, Oil (Lippia Citriodora), Lepidine, L-Leucine, Levulinic Acid, Levulose, L-Fenchone, Licorice Extract (Glycyrrhiza Spp.), Licorice Extract Powder (Glycyrrhiza Spp.), Licorice (Glycyrrhiza Spp.), Lignin, Lignin Sodium Sulfonate, Lignosulfonic Acid, Lime, Essence, Lime, Juice, Lime Juice, Dehydrated, Lime Oil, Distilled, Lime Oil, Expressed, Lime, Oil, Terpeneless (Citrus Aurantifolia (Christman) Swingle), L-Limonene, D-Limonene, Dl-Limonene, Linaloe Wood, Oil (Bursera Delpechiana Poiss. And Other Bursera Spp.), Linalool,

Linalool Oxide, Linalool Oxide Pyranoid, Linalyl Acetate, Linalyl Anthranilate, Linalyl Benzoate, Linalyl Butyrate, Linalyl Cinnamate, Linalyl Formate, Linalyl Hexanoate, Linalyl Isobutyrate, Linalyl Isovalerate, Linalyl Octanoate, Linalyl Phenylacetate, Linalyl Propionate, Linden Flowers, Extract (Tilia Spp.), Linden Flowers (Tilia Glabra Vent.), Linden Leaves (Tillia Spp.), Linoleic Acid, Lipase, Lipase From Animal Tissue, Lipase From Aspergillus Niger, Lipase From Aspergillus Oryzae, Lipase From Rhizopus Niveus, Listeria-Specific Bacteriophage Preparation, Litsea Cubeba Berry Oil, L-Menthyl Butyrate, Locust (Carob) Bean Gum, Lovage, Extract (Levisticum Officinale Koch), Lovage (Levisticum Officinale Koch), Lovage, Oil (Levisticum Officinale Koch), L-8-P-Menthene-1,2-Epoxide, Lungmoss (Sticta Pulmonacea Ach.), Luo Han Fruit Concentrate, Lupulin (Humulus Lupulus L.), L-Lysine, Mace (Myristica Fragrans Houtt.), Mace, Oil (Myristica Fragrans Houtt.), Mace, Oleoresin (Myristica Fragrans Houtt.), Magnesium Caprate, Magnesium Caprylate, Magnesium Carbonate, Magnesium Chloride, Magnesium Fumarate, Magnesium Gluconate, Magnesium Glycerophosphate, Magnesium Hydroxide, Magnesium Laurate, Magnesium Myristate, Magnesium Oleate, Magnesium Oxide, Magnesium Palmitate, Magnesium Phosphate, Dibasic, Magnesium Phosphate, Tribasic, Magnesium Salts Of Fatty Acids, Magnesium Silicate, Magnesium Stearate, Magnesium Sulfate, Magnolol, Maidenhair Fern (Adiantum Capillus-Veneris L.), L-Malic Acid, Malic Acid, Malt, Maltodextrin, Maltol, Maltol Propionate, Maltose, Malt Syrup (Malt Extract), Maltyl Isobutyrate, Mandarin, Oil (Citrus Reticulata Blanco), Manganese Chloride, Manganese Citrate, Manganese Gluconate, Manganese Glycerophosphate, Manganese Hypophosphite, Manganese Sulfate, Manganous Oxide, Mannitol, Marigold, Pot (Calendula Officinalis L.), Marjoram, Oleoresin (Marjorana Hortensis Moench (Origanum Majorana L.)), Marjoram, Pot (Majorana Onites (L.) Benth. (Origanum Vulgare L.)), Marjoram Seed (Majorana Hortensis Moench (Origanum Majorana L.)), Marjoram, Sweet (Majorana Hortensis Moench (Origanum Majorana L.)), Marjoram, Sweet, Oil (Majorana Hortensis Moench (Origanum Majorana L.)), Massaranduba Balata (Manilkara Huberi (Ducke) Chevalier), Massaranduba Balata, Solvent-Free Resin Extract, Massaranduba Chocolate (Manilkara Solimoesensis Gilly), Massoia Bark Oil, Mastic Gum, Mate, Absolute (Ilex Paraguariensis St. Hil.), Mate, Leaves, Menadiol Sodium Diphosphate, Menhaden Oil, Menhaden Oil, Hydrogenated, Menhaden Oil, Partially Hydrogenated, D-2,8-P-Menthadien-1-Ol, Menthadienol, P-Mentha-1,8-Dien-7-Ol, Cis- And

Trans-P-1(7),8-Menthadien-2-Yl Acetate, P-Menthan-2-One, P-Mentha-8-Thiol-3-One, P-Menth-1-Ene-9-Al, 8-P-Menthene-1,2-Diol, 1-P-Menthene-8-Thiol, P-Menth-1-En-3-Ol, P-Menth-3-En-1-Ol, 1-P-Menthen-9-Yl Acetate, Menthol, Menthone, Menthone 1,2-Glycerol Ketal, L-Menthone 1,2-Glycerol Ketal, Menthone-8-Thioacetate, 2-(L-Menthoxy)Ethanol, 3-(L-Menthoxy)-2-Methylpropane-1,2-Diol, 3-L-Menthoxypropane-1,2-Diol, Menthyl Acetate, L-Menthyl Acetoacetate, L-Menthyl Ethylene Glycol Carbonate, Menthyl Formate, L-Menthyl (R,S)-3-Hydroxybutyrate, Menthyl Isovalerate, L-Menthyl Lactate, 1-Menthyl Methyl Ether, 2-[2-(P-Menthyloxy)Ethoxy]Ethanol, Menthyl Propionate, Menthyl Propylene Glycol Carbonate, L-Menthyl 1,2-Propylene Glycol Carbonate, Menthyl Pyrrolidonecarboxylate, Menthyl Valerate, 2-Mercaptoanisole, 2-Mercapto-3-Butanol, 3-Mercapto-2-Butanone, (+/-)-3-Mercapto-1-Butyl Acetate, 2-Mercaptoethanol, 3-Mercaptoheptyl Acetate, 3-Mercaptohexanal, 3-Mercaptohexanol, 3-Mercaptohexyl Acetate, 3-Mercaptohexyl Butyrate, 3-Mercaptohexyl Hexanoate, 4-Mercapto-3-Methyl-2-Butanol, 3-Mercapto-2-Methyl-1-Butanol, 3-Mercapto-3-Methyl-1-Butanol, 3-Mercapto-3-Methyl-1-Butyl Acetate, 3-Mercapto-3-Methylbutyl Formate, 3-Mercapto-3-Methylbutyl Isovalerate, 4-Mercapto-4-Methyl-2-Hexanone, 3-Mercapto-2-Methylpentanal, 3-Mercapto-2-Methyl-1-Pentanol, (+/-)-4-Mercapto-4-Methyl-2-Pentanol, 2-Mercapto-2-Methyl-1-Pentanol, 4-Mercapto-4-Methyl-2-Pentanone, 2-Mercaptomethylpyrazine, 3-Mercapto-2-Pentanone, 4-Mercapto-2-Pentanone, 2,3 Or 10-Mercaptopinane, 1-Mercapto-2-Propanone, 2-Mercaptopropionic Acid, 3-Mercaptopropionic Acid, Mesquite Wood Extract, Methacrylic Acid-Divinylbenzene Copolymer, Methional Diethyl Acetal, L-Methionine, Dl-Methionine, Methionyl Butyrate, L-Methionylglycine, 2-Methoxyacetophenone, P-Methoxy-Alpha-Methylcinnamaldehyde, O-Methoxybenzaldehyde, P-Methoxybenzaldehyde, 4-Methoxybenzoic Acid, 3-Methoxybenzoic Acid, 2-Methoxybenzoic Acid, P-Methoxycinnamaldehyde, O-Methoxycinnamaldehyde, Trans- And Cis-1-Methoxy-1-Decene, (S1)-Methoxy-3-Heptanethiol, 2-Methoxy-(3 Or 5 Or 6)-Isopropylpyrazine, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(5-Methylpyridin-2-Yl)Ethyl)Oxalamide, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(Pyridin-2-Yl) Ethyl)Oxalamide, 4-Methoxy-2-Methyl-2-Butanethiol, 2-Methoxy-4-Methylphenol, (2 Or 5 Or 6)-Methoxy-3-Methylpyrazine (Mixture Of Isomers), 4-(P-Methoxyphenyl)-2-Butanone, 1-(P-Methoxyphenyl)-1-Penten-3-One, 2-Methoxy-6-(2-Propenyl)Phenol, 2-Methoxy-4-Propylphenol, 2-Methoxy-3-(1-Methylpropyl)Pyrazine, Methoxypyrazine, 2-Methoxypyridine,

6-Methoxyquinoline, 2-Methoxy-4-Vinylphenol, Methyl Methacrylate, Methyl Acetate, 4'-Methylacetophenone, 2-Methylacetophenone, Methyl 1-Acetoxycyclohexyl Ketone, (+/-)-Methyl 5-Acetoxyhexanoate, Methyl 3-Acetoxy-2-Methylbutyrate, Methyl 3-Acetoxyoctanoate, Methyl N-Acetylanthranilate, 1-Methyl-2-Acetylpyrrole, 2-Methyl-3-(2-Furyl)Acrolein, Methyl Acrylate, Methyl Acrylate-Divinylbenzene, Completely Hydrolyzed, Copolymer, Methyl Acrylate-Dvb-Acrylonitrile, Completely Hydrolyzed, Terpolymer, Methyl Acrylate-Dvb(3.5%), Copolymer, Aminolyzed With Dmapa, Methyl Acrylate-Dvb(2%), Copolymer, Aminolyzed With Dmapa, Methyl Acrylate--Dvb-(Deg-Divinyl Ether), Aminolyzed And Quarternized, Terpolymer, Methyl Acrylate-Dvb-(Deg-Divinyl Ether), Aminolyzed, Terpolymer, Methyl Alcohol, 2-Methylallyl Butyrate, Methyl-Alpha-Ionone, Methyl Anisate, P-Methylanisole, O-Methylanisole, Methyl Anthranilate, Methylated Silica, 4-Methylbenzaldehyde Propyleneglycol Acetal, Methyl Benzoate, 2-Methylbenzofuran, S-Methyl Benzothioate, 2-Methyl-4,5-Benzoxazole, Alpha-Methylbenzyl Acetate, Methylbenzyl Acetate (Mixed O-, M-, P-), Alpha-Methylbenzyl Alcohol, 4-Methylbenzyl Alcohol, Methyl Benzyl Disulfide, Alpha-Methylbenzyl Formate, Alpha-Methylbenzyl Propionate, 4-Methylbiphenyl, 3-Methylbutanethiol, 3-Methyl-2-Butanethiol, 2-Methyl-1-Butanethiol, 3-Methyl-2-Butanol, 2-Methyl-1-Butanol, 2-Methyl-2-Butenal, 3-Methyl-2-Butenal, (Z)-3-Hexenyl(E)-2-Methyl-2-Butenoate, Trans-2-Methyl-2-Butenoic Acid, 2-Methylbut-2-En-1-Ol, 3-Methyl-2-Buten-1-Ol, 2-Methyl-3-Buten-2-Ol, 3-Methyl-3-Buten-2-One, 3-Methyl-3-Butenyl Acetate, 2-Methylbutyl Acetate, 2-Methylbutylamine, 2-Methylbutyl Isovalerate, 2-Methylbutyl 3-Methyl-2-Butenoate, 2-Methylbutyl 2-Methylbutyrate, 3-Methylbutyraldehyde, 2-Methylbutyraldehyde, Methyl Butyrate, 2-Methylbutyric Acid, Alpha-Methylcinnamaldehyde, P-Methylcinnamaldehyde, Methyl Cinnamate, 4-Methyl-Cis-2-Pentene, 6-Methylcoumarin, 3-Methylcrotonic Acid, 2-Methyl-1,3-Cyclohexadiene, 1-Methyl-2,3-Cyclohexadione, Methyl Cyclohexanecarboxylate, 4-Methylcyclohexanone, 3-Methylcyclohexanone, 2-Methylcyclohexanone, 3-Methyl-2-Cyclohexen-1-One, N-(2-Methylcyclohexyl)-2,3,4,5,6-Pentafluorobenzamide, 3-Methyl-1-Cyclopentadecanone, Methylcyclopentenolone, 1-Methyl-1-Cyclopenten-3-One, Methyl(E)-2-(Z)-4-Decadienoate, 3-Methyl-Gamma-Decalactone, Gamma-Methyldecalactone, Methyl 2-Decenoate, Methyl-Delta-Ionone, 5h-5-Methyl-6,7-Dihydrocyclopenta(B)Pyrazine, 2-Methyl-4,5-Dihydrofuran-3-Thiol, Methyl Dihydrojasmonate, 4-Methyl-2,6-Dimethoxyphenol, Methyl

N,N-Dimethylanthranilate, Methyl 3,7-Dimethyl-6-Octenoate, Methyl Disulfide, 2-Methyl-1,3-Dithiolane, 1-(Methyldithio)-2-Propanone, Methylene Chloride, 4-(3,4-Methylenedioxyphenyl)-2-Butanone, 3-(3,4-Methylenedioxyphenyl)-2-Methylpropanal, Methyl Esters Of Fatty Acids (Edible), 2-Methyl-(3 Or 5 Or 6)-Ethoxypyrazine, Methyl Ethyl Sulfide, Methyl Ethyl Trisulfide, Methyl N-Formylanthranilate, 2-Methylfuran, 2-Methyl-3-(Methylthio)Furan, 2-Methyl-5-(Methylthio)Furan, 5-Methyl-3(2h)-Furanone, 2-Methyl-3-Furanthiol, Methyl Furfuracrylate, 5-Methylfurfural, 5-Methylfurfuryl Alcohol, Methyl Furfuryl Disulfide, 5-Methylfurfurylmercaptan, Methyl 3-(Furfurylthio)Propionate, Methyl 2-Furoate, 3-(5-Methyl-2-Furyl)-Butanal, 2-Methyl-3-Furyl 2-Methyl-3-Tetrahydrofuryl Disulfide, 2-Methyl-3-Furyl Methylthiomethyl Disulfide, 3-(5-Methyl-2-Furyl)Prop-2-Enal, 3-[(2-Methyl-3-Furyl)Thio]Butanal, (+/-)-3-[(2-Methyl-3-Furyl)Thio]-2-Butanone, 3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, Methyl Glucoside-Coconut Oil Ester, 6-Methyl-3,5-Heptadien-2-One, 6-Methylheptanal, Methyl Heptanoate, 2-Methylheptanoic Acid, 2-Methyl-3-Heptanone, 6-Methyl-5-Hepten-2-Ol, 5-Methyl-2-Hepten-4-One, 6-Methyl-3-Hepten-2-One, Trans-, 6-Methyl-5-Hepten-2-One, 6-Methyl-5-Hepten-2-One Propyleneglycol Acetal, 6-Methyl-5-Hepten-2-Yl Acetate, 3-Methylhexanal, 5-Methyl-2,3-Hexanedione, S-Methyl Hexanethioate, Methyl Hexanoate, 2-Methylhexanoic Acid, 5-Methylhexanoic Acid, Methyl 3-Hexenoate, Methyl Cis-3-Hexenoate, Methyl 2-Hexenoate, 5-Methyl-5-Hexen-2-One, 5-Methyl-3-Hexen-2-One, 5-Methylhexyl Acetate, Methyl Hexyl Ether, 1-Methyl-1h-Pyrrole-2-Carboxaldehyde, Methyl P-Hydroxybenzoate, Methyl 3-Hydroxybutyrate, Methyl 3-Hydroxyhexanoate, Methyl 2-Hydroxy-4-Methylpentanoate, Alpha-Methyl-Beta-Hydroxypropyl Alpha-Methyl-Beta-Mercaptopropyl Sulfide, Methyl-Beta-Ionone, Methyl Isobutanethioate, Methyl Isobutyl Ketone, Methyl Isobutyrate, Methyl Isopentyl Disulfide, 2-Methyl-5-Isopropylpyrazine, Methyl Isothiocyanate, Methyl Isovalerate, Methyl Jasmonate, Methyl Laurate, Methyl Levulinate, Methyl Linoleate (48%) Methyl Linolenate (52%) Mixture, Methyl Mercaptan, Methyl 3-Mercaptobutanoate, Methyl O-Methoxybenzoate, 1-Methyl-3-Methoxy-4-Isopropylbenzene, 2-Methyl-5-Methoxythiazole, Methyl N-Methylanthranilate, S-Methyl 3-Methylbutanethioate, Methyl 3-Methyl-1-Butenyl Disulfide, 3-Methyl-2(3-Methylbut-2-En-1-Yl)Furan, Methyl 2-Methylbutyrate, Methyl 2-Methyl-3-Furyl Disulfide, S-Methyl 4-Methylpentanethioate, Methyl 2-Methylpentanoate, Methyl 2-Methylphenyl Disulfide, Methyl (Methylthio)Acetate, Methyl 3-

(Methylthio)Butanoate, 2-Methyl-1-Methylthio-2-Butene, Methyl 4-(Methylthio)Butyrate, Methyl 2-Methylthiobutyrate, Methyl (Methylthio)Methyl Disulfide, 4-Methyl-2-(Methylthiomethyl)-2-Hexenal, 5-Methyl-2-(Methylthiomethyl)-2-Hexenal, 4-Methyl-2-(Methylthiomethyl)-2-Pentenal, Methyl 3-Methylthiopropionate, Methyl 4-Methylvalerate, Methyl Myristate, 1-Methylnaphthalene, Methyl Beta-Naphthyl Ketone, Methyl Nicotinate, 3-Methyl-2,4-Nonanedione, Methyl Nonanoate, 4-Methylnonanoic Acid, Methyl 2-Nonenoate, Methyl 3-Nonenoate, Methyl 2-Nonynoate, 2-Methyloctanal, (+/-)-6-Methyloctanal, Methyl Octanoate, 4-Methyloctanoic Acid, 2-Methyl-2-Octenal, Methyl 2-Octenoate, Methyl Cis-4-Octenoate, Methyl Trans-2-Octenoate, Methyl Cis-5-Octenoate, (E)-7-Methyl-3-Octen-2-One, Methyl Octyl Sulfide, Methyl 2-Octynoate, 2-Methyl-3 Or 5 Or 6-(Furfurylthio)Pyrazine (Mixture Of Isomers), 3-Methyl-2-Oxobutanoic Acid, Methyl 2-Oxo-3-Methylpentanoate, 3-Methyl-2-Oxopentanoic Acid, 4-Methyl-2-Oxopentanoic Acid, 2-Methylpentanal, 4-Methyl-2,3-Pentanedione, 4-Methylpentanoic Acid, 3-Methylpentanoic Acid, 3-Methyl-1-Pentanol, 4-(Methylthio)-4-Methyl-2-Pentanone, 2-Methyl-2-Pentenal, 4-Methyl-2-Pentenal, Methyl 4-Pentenoate, 2-Methyl-4-Pentenoic Acid, 4-Methylpent-2-Enoic Acid, 2-Methyl-3-Pentenoic Acid, 2-Methyl-2-Pentenoic Acid, 1-(4-Methoxyphenyl)-4-Methyl-1-Penten-3-One, 4-Methyl-3-Penten-2-One, 4-Methyl-4-Penten-2-One, 4-Methyl-2-Pentyl-1,3-Dioxolane, 4-Methylpentyl Isovalerate, Beta-Methylphenethyl Alcohol, Alpha-Methylphenethyl Butyrate, Methyl Phenethyl Ether, Methyl Phenylacetate, 2-Methyl-4-Phenyl-2-Butanol, 3-Methyl-4-Phenyl-3-Butene-2-One, 2-Methyl-4-Phenyl-2-Butyl Acetate, 2-Methyl-4-Phenyl-2-Butyl Isobutyrate, 2-Methyl-4-Phenylbutyraldehyde, 3-Methyl-2-Phenylbutyraldehyde, Methyl 4-Phenylbutyrate, Methyl Phenyl Disulfide, Methyl Beta-Phenylglycidate, 3-Methyl-3-Phenyl Glycidic Acid Ethyl Ester, 5-Methyl-2-Phenyl-2-Hexenal, 4-Methyl-1-Phenyl-2-Pentanone, 4-Methyl-2-Phenyl-2-Pentenal, Methyl 3-Phenylpropionate, Methyl Phenyl Sulfide, 2-Methylpiperidine, Methylpolysilicone, 2-Methyl-2-(Methyldithio)Propanal, S-Methyl Propanethioate, 2-Methyl-1-Propanethiol, Methyl Propenyl Disulfide, Methyl 1-Propenyl Sulfide, 2-Methyl-3-(P-Isopropylphenyl) Propionaldehyde, Methyl Propionate, 3-Methyl-5-Propyl-2-Cyclohexen-1-One, Methyl Propyl Disulfide, 2-Methylpropyl-3-Methylbutyrate, (?)-4-Methyl-2-Propyl-1,3-Oxathiane, 2-Methyl-4-Propyl-1,3-Oxathiane, 2-(2-Methylpropyl)Pyridine, 2-(1-Methylpropyl)Thiazole, Methyl Propyl Trisulfide, Methyl-(3 Or 5 Or 6)-(Methylthio)Pyrazine (Mixture Of Isomers), 2-Methylpyrazine,

Methyl 2-Pyrrolyl Ketone, 6-Methylquinoline, 5-Methylquinoxaline, Methyl Salicylate, Methyl Sorbate, Methyl Sulfide, Methyl P-Tert-Butylphenylacetate, 2-Methyltetrahydrofuran-3-One, 2-Methyl-3-Tetrahydrofuranthiol, (?)-2-Methyltetrahydrofuran-3-Thiol Acetate, 7-Methyl-4,4a,5,6-Tetrahydro-2(3h)-Naphthalenone, 2-Methyltetrahydrothiophen-3-One, 4-Methylthiazole, 4-Methyl-5-Thiazoleethanol, 4-Methyl-5-Thiazoleethanol Acetate, 4-Methyl-3-Thiazoline, 2-(4-Methyl-5-Thiazolyl)Ethyl Butanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Decanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Formate, 2-(4-Methyl-5-Thiazolyl)Ethyl Hexanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Isobutyrate, 2-(4-Methyl-5-Thiazolyl)Ethyl Octanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Propionate, 2-Methylthioacetaldehyde, S-Methyl Thioacetate, 2-Methyl-3-Thioacetoxy-4,5-Dihydrofuran, Methylthio 2-(Acetyloxy)Propionate, 3-(Methylthio)Butanal, 4-(Methylthio)Butanol, 1-(Methylthio)-2-Butanone, 4-(Methylthio)-2-Butanone, 3-(Methylthio)-2-Butanone, 4-(Methylthio)Butyl Isothiocyanate, Methyl Thiobutyrate, 1-(3-(Methylthio)-Butyryl)-2,6,6-Trimethylcyclohexene, 2-(Methylthio)Ethanol, 2-(Methylthio)Ethyl Acetate, Methyl 2-Thiofuroate, (+/-)-3-(Methylthio)Heptanal, 3-(Methylthio)-1-Hexanol, 3-Methylthiohexenal, 3-(Methylthio)Hexyl Acetate, 6-(Methylthio)Hexyl Isothiocyanate, 2-((Methylthio)Methyl)-2-Butenal, Methylthiomethyl Butyrate, Methylthiomethyl Hexanoate, Methylthiomethylmercaptan, 2-(Methylthiomethyl)-3-Phenylpropenal, 3-(Methylthio)Methylthiophene, 1-(Methylthio)-3-Octanone, 4-(Methylthio)-2-Oxobutanoic Acid, 4-(Methylthio)-2-Pentanone, 5-(Methylthio)Pentyl Isothiocyanate, 5-Methyl-2-Thiophenecarboxaldehyde, O-(Methylthio)Phenol, 1-Methylthio-2-Propanone, Methylthio 2-(Propionyloxy)Propionate, 3-(Methylthio)Propyl Acetate, 3-(Methylthio)Propylamine, 3-(Methylthio)Propyl Hexanoate, 3-Methylthiopropyl Isothiocyanate, 3-(Methylthio)Propyl Mercaptoacetate, 2-Methyl-3-Tolylpropionaldehyde (Mixed O-, M-, P-), 12-Methyltridecanal, 3-Methyl-1,2,4-Trithiane, 2-Methylundecanal, Methyl 9-Undecenoate, Methyl 10-Undecenoate, Methyl 2-Undecynoate, Methyl Valerate, 2-Methylvaleric Acid, 2-Methyl-5-Vinylpyrazine, (+/-)-2-(5-Methyl-5-Vinyltetrahydrofuran-2-Yl)Propionaldehyde, 4-Methyl-5-Vinylthiazole, Michelia Alba, Extract, Microparticulated Protein Product, Milk, Skim Milk, Nonfat Milk, Reduced-Fat Milk, Milk Clotting Enzyme, Aspergillus Oryzae Recombinant, Milk Clotting Enzyme From Bacillus Cereus (Frankland And Frankland), Milk Clotting Enzyme From Endothia Parasitica, Milk Clotting Enzyme From Mucor Miehei Cooney Et Emerson, Milk

Clotting Enzyme From Mucor Pusillus L., Milk Powder, Whole, Enzyme-Modified, Mimosa, Absolute (Acacia Decurrens Willd. Var. Dealbata), Mimosa Concrete (Acacia Decurrens Willd. Var. Dealbata), Mineral Oil, White, Mintlactone, Mixture Of 3,6-Diethyl-1,2,4,5-Tetrathiane And 3,5-Diethyl-1,2,4-Trithiolane, Mixture Of Methyl Cyclohexadiene And Methylene Cyclohexene, Mixture Of Butyl Propyl Disulfide And Propyl And Butyl Disulfide, Molasses, Concentrate, Molasses, Extract (Saccharum Officinarum L.), Molasses (Saccharum Officinarum L.), Molecular Sieve Resins, Monoammonium Glutamate, Mono- And Diglycerides, Mono- And Diglycerides, Acetic Acid Esters And Sodium And Calcium Salts, Mono- And Diglycerides, Acetyltartaric Acid Esters And Sodium And Calcium Salts, Mono- And Diglycerides, Citric Acid Esters And Sodium And Calcium Salts, Mono- And Diglycerides, Diacetyltartaric Acid Esters, Mono- And Diglycerides, Ethoxylated, Mono- And Diglycerides, Lactic Acid Esters And Sodium And Calcium Salts, Mono- And Diglycerides, Monosodium Phosphate Derivatives, Mono- And Diglycerides, Sodium Sulfoacetate Derivatives, Mono-, Di-, And Triglycerides, Monoethanolamine, Monoglyceride Citrate, Monoglycerides, Acetylated, Monoisopropyl Citrate, Monomenthyl Glutarate, L-, Monomenthyl Succinate, Monopotassium Glutamate, Monosodium Glutamate, Montan Wax Fatty Acids, Oxidatively Refined, Polyhydric Alcohol Diesters, Morpholine, Morpholine, Fatty Acid Salts, Mountain Maple (Acer Spicatum Lam.), Mountain Maple Bark (Acer Spicatum Lam.), Mountain Maple, Extract Solid (Acer Spicatum Lam.), Mullein Flowers (Verbascum Spp.), Mushroom Oil, Distilled, Musk Ambrette, Musk, Ketone, Musk Tonquin (Moschus Moschiferus L.), Mustard, Brown (Brassica Spp.), Mustard, Brown, Extract (Brassica Spp.), Mustard Flour, Mustard Oil, Mustard, Oriental, Mustard, Yellow (Brassica Spp.), Mustard, Yellow, Extract (Brassica Spp.), Beta-Myrcene, Myrcenyl Methyl Ether, Myricitrin, Myristaldehyde, Myristic Acid, Myristyl Alcohol, Myrrh, Extract, Myrrh, Gum (Commiphora Spp.), Myrrh, Oil (Commiphora Spp.), Myrtenol, Myrtenyl Acetate, Myrtle Leaves (Myrtus Communis L.), Myrtle, Oil (Myrtus Communis L.), Naphtha, 2-Naphthalenthiol, Beta-Naphthyl Anthranilate, Beta-Naphthyl Ethyl Ether, Beta-Naphthyl Isobutyl Ether, Beta-Naphthyl Methyl Ether, Naringin Dihydrochalcone, Naringin, Extract (Citrus Paradisi Macf.), Natamycin, Natural Gas, N-(1,1-Dimethyl-2-Hydroxyethyl)-2,2-Diethylbutanamide, Neohesperidin Dihydrochalcone, D-Neomenthol, Neotame, Nerol, Neroli, Bigarade Oil (Citrus Aurantium L.), Nerolidol, Nerolidol Oxide, Neryl Acetate, Neryl Butyrate, Neryl Formate, Neryl

Isobutyrate, Neryl Isovalerate, Neryl Propionate, N-Ethyl-2,2-Diisopropylbutanamide, N-(2-Hydroxyethyl)-2,3-Dimethyl-2-Isopropylbutanamide, Niacin, Niacinamide, Nickel, Nicotinamide-Ascorbic Acid Complex, Niger Gutta (Ficus Platyphylla Del.), Nisin Preparation, Nispero, Nitrates, Sodium & Potassium, Nitrites, Sodium & Potassium, Nitrogen, Nitrogen Oxides, Nitrosyl Chloride, Nitrous Oxide, (+/-)-N-Lactoyltyramine, 2,4-Nonadienal, 2-Trans-6-Trans-Nonadienal, 2,6-Nonadienal Diethyl Acetal, 2,4-Nonadien-1-Ol, (E)-3-(Z)-6-Nonadien-1-Ol, (Z)(Z)-3,6-Nonadien-1-Ol, 2,6-Nonadien-1-Ol, (E,Z)-2,6-Nonadien-1-Ol Acetate, (E,Z)-3,6-Nonadien-1-Ol Acetate, Cis,Cis-3,6-Nonadienyl Acetate, Gamma-Nonalactone, Nonanal, Nonanal Dimethyl Acetal, Nonanal Propyleneglycol Acetal, 1,3-Nonanediol Acetate (Mixed Esters), 1,4-Nonanediol Diacetate, 1,9-Nonanedithiol, Nonanoic Acid, 2-Nonanol, 4-((2-Methyl-3-Furyl)Thio)-5-Nonanone, 2-Nonanone, 3-Nonanone, 2-Nonanone Propyleneglycol Acetal, 3-Nonanon-1-Ol, 3-Nonanon-1-Yl Acetate, Nonanoyl 4-Hydroxy-3-Methoxybenzylamide, Nona-2,4,6-Trienal, Cis-6-Nonenal, 2-Nonenal, 1-Nonene, (E)-2-Nonenoic Acid, 2-Nonenoic Acid Gamma-Lactone, Cis-6-Nonen-1-Ol, Trans-2-Nonen-1-Ol, Cis-2-Nonen-1-Ol, 3-Nonen-2-One, 8-Nonen-2-One, 5-Nonen-Trans-2-One, Cis-6-Nonenyl Acetate, Cis-3-Nonenyl Acetate, 3-Nonyl Acetate, Nonyl Acetate, Nonyl Alcohol, Nonyl Isovalerate, Nonyl Octanoate, Nootkatone, N-P-Benzeneacetonitrilementhanecarboxamide, N-(2-(Pyridin-2-Yl)Ethyl)-3-P-Menthanecarboxamide, Nutmeg (Myristica Fragrans Houtt.), Nutmeg, Oil (Myristica Fragrans Houtt.), Nutmeg Oleoresin, Oak Chips, White, Extract (Quercus Alba L.), Oak Moss, Absolute (Evernia Spp.), Oak Moss, Concrete (Evernia Prunasti Spp.), Oak Wood, English (Quercus Robur L.), Oat Gum, Ocimene, 9,12-Octadecadienoic Acid (48%) And 9,12,15-Octadecatrienoic Acid (52%), Delta-Octadecalactone, Gamma-Octadecalactone, 9-Octadecenal, Octadecylamine, 2-Trans-6-Trans-Octadienal, Trans,Trans-2,4-Octadienal, (E,E)-2,4-Octadien-1-Ol, 3,5-Octadien-2-One, Trans, Trans-, 1,5-Octadien-3-One, Octafluorocyclobutane, Octahydro-4,8a-Dimethyl-4a(2h)-Naphthol, Octahydrocoumarin, Delta-Octalactone, Gamma-Octalactone, Octanal, Octanal Dimethyl Acetal, Octanal Propyleneglycol Acetal, 4,5-Octanedione, 2,3-Octanedione, 1,8-Octanedithiol, Octanoic Acid, 3-Octanol, 2-Octanol, 1-Octanol, 2-Octanone, 3-Octanone, 3-(Hydroxymethyl)-2-Octanone, 6-Octenal, 2-Octenal, Cis-5-Octenal, 1-Octene, 3-Octenoic Acid, (E)-2-Octenoic Acid, (E)-2-Octen-1-Ol, Cis-3-Octen-1-Ol, 1-Octen-3-Ol, (E)-2-Octen-4-Ol, Cis-5-Octen-1-Ol, Trans-3-Octen-2-Ol, 3-Octen-2-One, 2-Octen-4-One, 1-Octen-3-

One, 4-Octen-3-One, Z-5-Octenyl Acetate, 1-Octen-3-Yl Acetate, Trans-2-Octen-1-Yl Acetate, Trans-2-Octen-1-Yl Butanoate, 1-Octen-3-Yl Butyrate, (E)-2-(2-Octenyl)Cyclopentanone, Cis-3-Octenyl Propionate, (Z)-5-Octenyl Propionate, 1-Octenyl Succinic Anhydride, 3-Octyl Acetate, Octyl Acetate, Octyl Alcohol, Synthetic, Octyl Butyrate, 3-Octyl Butyrate, Octyl Formate, 3-Octyl Formate, Octyl 2-Furoate, Octyl Gallate, Octyl Heptanoate, Octyl Isobutyrate, Octyl Isovalerate, Octyl 2-Methylbutyrate, Octyl Octanoate, Octyl Phenylacetate, Octyl Propionate, (?)-6-Octyltetrahydro-2h-Pyran-2-One, O-Ethyl S-(2-Furylmethyl)Thiocarbonate, Oiticica Oil, Oleic Acid, Oleic Acid, From Tall Oil Fatty Acids, Olestra, Oleyl Alcohol, Olibanum, Absolute (Boswellia Spp.), Olibanum, Gum, Resin (Boswellia Spp.), Olibanum, Oil (Boswellia Spp.), Olibanum, Resinoid (Boswellia Spp.), Onion, Oil (Allium Cepa L.), Opopanax, Gum, Opopanax, Non-Specific, Opopanax, Oil, Opopanax Tincture, Orange B, Orange Essence, Natural, Orange Essence Oil, Natural, Orange, Extract, Orange Flowers, Absolute (Citrus Aurantium L.), Orange Flowers, Bitter (Citrus Aurantium L), Orange, Juice, Orange Leaf, Absolute (Citrus Aurantium L.), Orange, Oil, Distilled (Citrus Sinensis (L.) Osbeck), Orange, Oil, Terpeneless (Citrus Sinensis (L.) Osbeck), Orange Peel, Orange Peel, Bitter, Extract (Citrus Aurantium L.), Orange Peel, Bitter, Oil (Citrus Aurantium L.), Orange Peel, Sweet, Extract (Citrus Sinensis (L.) Osbeck), Orange Peel, Sweet, Oil (Citrus Sinensis (L.) Osbeck), Orange Peel, Sweet, Oil, Terpeneless (Citrus Sinensis (L.) Osbeck), Oregano, European (Origanum Spp.), Oregano (Lippia Spp., Usually L. Graveolens Hbk), Oregano (Other Genera Including Coleus, Lantana And Hyptis), Origanum Oil (Extractive)(Thymus Capitatus Hoff. Et Link), Orin Lactone, L-Ornithine Monochlorohydrate/Ornithine, Orris, Concrete, Liquid, Oil (Iris Florentina L.), Orris Root, Extract (Iris Florentina L.), Osmanthus Absolute, Ox Bile Extract, Oxirane (Chloromethyl)-, Polymer With Ammonia, Reaction Product With Chloromethane, 3-Oxobutanal, Dimethyl Acetal, 5-Oxodecanoic Acid, 3-Oxodecanoic Acid Glyceride, 5-Oxododecanoic Acid, 3-Oxododecanoic Acid Glyceride, 2-Oxo-3-Ethyl-4-Butanolide, 3-Oxohexadecanoic Acid Glyceride, 3-Oxohexanoic Acid Diglyceride, 5-Oxooctanoic Acid, 3-Oxooctanoic Acid Glyceride, 2-Oxopentanedioic Acid, 2-Oxo-3-Phenylpropionic Acid, 3-Oxotetradecanoic Acid Glyceride, 2-Oxothiolane, Oxystearin, Ozone, Palmitic Acid, Pancreatin, Pansy (Viola Tricolor L.), D-Pantothenamide, D-Pantothenyl Alcohol, Papain (Carica Papaya L.), Paprika (Capsicum Annuum L.), Paprika Oleoresin (Capsicum Annuum L.), Paraffin And

Succinic Derivatives, Synthetic, Paraffin Wax, Paraldehyde, Cheese, Cheddar Cheese, Cheese Powder, Parmesan Cheese, Reggiano Cheese, Parsley, Oil (Petroselinum Spp.), Parsley, Oleoresin (Petroselinum Spp.), Parsley (Petroselinum Spp.), Passion Flower Extract, Passion Flower (Passiflora Incarnata L.), Patchouly, Oil (Pogostemon Spp.), Peach Kernel, Extract(Prunus Persica Sieb Et Zucc.), Peach Leaves, Extract (Prunus Persica (L.) Batsch), Peach Leaves (Prunus Persica (L.) Batsch), Peanut Oil, Peanut Stearine (Arachis Hypogaea L.), Pecan Shell Flour, Pectin, Pectin, Amidated, Pectinase From Aspergillus Niger, Pectinase From Bacillus Subtilis, Pectin, Modified, Peg Fatty Acid Esters And Mono-, Di-, And Triglycerides Mixture, Pendare (Couma Macrocarpa Barb. Rodr. & Couma Utilis (Mart.) Muell. Arg.), Penicillinase From Bacillus Subtilis, Penicillium Roqueforti, Pennyroyal, Oil, American (Hedeoma Pulegiodes (L.)), Pennyroyal, Oil, European (Mentha Pulegium L.), Omega-Pentadecalactone, Pentadecanoic Acid, 2-Pentadecanone, 2,4-Pentadienal, 2,3-Pentanedione, 3-Pentanethiol, 2-Pentanethiol, 1-Pentanethiol, 2-Pentanol, 2-Pentanone, 2-Pentanoylfuran, 2-Pentenal, 4-Pentenal, 2-Pentenoic Acid, 4-Pentenoic Acid, 1-Penten-3-Ol, 2-Penten-1-Ol, 3-Penten-2-One, 1-Penten-3-One, 4-Pentenyl Acetate, Pent-2-Enyl Hexanoate, 4-Pentenyl Isothiocyanate, 2-Pentenyl-4-Propyl-1,3-Oxathiane (Mixture Of Isomers), 2-Pentyl Acetate, Pentylamine, 2-Pentyl-1-Buten-3-One, 2-Pentyl Butyrate, 2-Pentylfuran, Pentyl 2-Furyl Ketone, 5-Pentyl-3h-Furan-2-One, 2-Pentyl-3-Methyl-2-Cyclopenten-1-One, 2-Pentyl 2-Methylpentanoate, 2-Pentylpyridine, 2-Pentylthiazole, 2-Pentylthiophene, Pepper, Black, Oil (Piper Nigrum L.), Pepper, Black, Oleoresin (Piper Nigrum L.), Pepper, Black (Piper Nigrum L.), Pepper, Cayenne, Peppermint Leaves (Mentha Piperita L.), Peppermint, Oil (Mentha Piperita L.), Peppermint Plant, Pepper, Red, Pepper, White, Oil (Piper Nigrum L.), Pepper, White, Oleoresin (Piper Nigrum L.), Pepper, White (Piper Nigrum L.), Pepsin, Peptones, Peracetic Acid, Perillaldehyde, Perillaldehyde Propyleneglycol Acetal, Perilla Leaf Oil, Perillo, Perillyl Acetate, Periodic Acid, Petitgrain, Lemon, Oil (Citrus Limon (L.) Burm. F.), Petitgrain, Mandarin, Oil (Citrus Reticulata Blanco Var. Mandarin), Petitgrain, Oil (Citrus Aurantium L.), Petrolatum, Petroleum Hydrocarbons, Odorless, Light, Petroleum Naphtha, Petroleum Wax, Petroleum Wax, Synthetic, Phaffia Yeast, Alpha-Phellandrene, Phenethyl Acetate, Phenethyl Alcohol, Phenethylamine, Phenethyl Anthranilate, Phenethyl Benzoate, Phenethyl Butyrate, Phenethyl Cinnamate, Phenethyl Decanoate, Phenethyl Formate, Phenethyl 2-Furoate, Phenethyl

Hexanoate, Phenethyl Isobutyrate, Phenethyl Isothiocyanate, Phenethyl Isovalerate, Phenethyl 2-Methylbutyrate, Phenethyl Octanoate, Phenethyl Phenylacetate, Phenethyl Propionate, Phenethyl Salicylate, Phenethyl Senecioate, Phenethyl Tiglate, Phenol, Phenol-Formaldehyde, Cross-Linked, Tetraethylenepentamine Activated, Phenol-Formaldehyde, Cross-Linked, Triethylenetetramine Activated, Phenol-Formaldehyde, Cross-Linked, Triethylenetetramine & Tetraethylenepentamine Activated, Phenol-Formaldehyde, Sulfite-Modified, Cross-Linked, Phenoxyacetic Acid, 2-Phenoxyethyl Isobutyrate, 2-Phenoxyethyl Propionate, Phenylacetaldehyde, Phenylacetaldehyde 2,3-Butylene Glycol Acetal, Phenylacetaldehyde Diethyl Acetal, Phenylacetaldehyde Diisobutyl Acetal, Phenylacetaldehyde Dimethyl Acetal, Phenylacetaldehyde Glyceryl Acetal, Phenylacetaldehyde Propyleneglycol Acetal, Phenyl Acetate, Phenylacetic Acid, Dl-Phenylalanine, L-Phenylalanine, 4-Phenyl-2-Butanol, 2-Phenyl-2-Butenal, 4-Phenyl-3-Buten-2-Ol, 4-Phenyl-3-Buten-2-One, 4-Phenyl-2-Butyl Acetate, Phenyl Butyrate, 2-Phenyl-3-Carbethoxy Furan, Phenyl Disulfide, (+/-)-1-Phenylethylmercaptan, Phenylethyl Mercaptan, (+/-)-2-Phenyl-4-Methyl-2-Hexenal, 1-Phenyl-3-Methyl-3-Pentanol, 1-Phenyl-3 Or 5-Propylpyrazole, 5-Phenylpentanol, 2-Phenyl-4-Pentenal, 3-Phenyl-4-Pentenal, O-Phenylphenol, 1-Phenyl-1,2-Propanedione, 3-Phenyl-1-Propanol, 1-Phenyl-1-Propanol, 2-Phenyl-3-(2-Furyl)-Prop-2-Enal, 3-Phenylpropionaldehyde, 2-Phenylpropionaldehyde, 2-Phenylpropionaldehyde Dimethyl Acetal, 3-Phenylpropionic Acid, 3-Phenylpropyl Acetate, 2-Phenylpropyl Butyrate, 3-Phenylpropyl Cinnamate, 3-Phenylpropyl Formate, 3-Phenylpropyl Hexanoate, 2-Phenylpropyl Isobutyrate, 3-Phenylpropyl Isobutyrate, 3-Phenylpropyl Isovalerate, 3-Phenylpropyl Propionate, 2-(3-Phenylpropyl)Pyridine, 2-(3-Phenylpropyl)Tetrahydrofuran, Phenyl Salicylate, Phosphoric Acid, Phosphorus Oxychloride, Phthalide, Phytol, Phytyl Acetate, Pimenta Leaf, Oil (Pimenta Officinalis Lindl.), 3-Pinanone, Pine Bark, White, Extract Solid (Pinus Strobus L.), Pine Bark, White, Oil (Pinus Strobus L.), Pine Bark, White (Pinus Strobus L.), Alpha-Pinene, Beta-Pinene, Pine Needle, Dwarf, Oil (Pinus Mugo Turra Var. Pumilio (Haenke) Zenari), Pine, Scotch, Oil (Pinus Sylvestris L.), Pine Tar, Oil (Pinus Spp.), Pine, White, Oil (Pinus Spp.), Pinocarveol, Pinocarvyl Isobutyrate, Piperazine, Piperazine Dihydrochloride, Piperidine, Piperine, Piperitenone, Piperitenone Oxide, L-Piperitone, D-Piperitone, Piper Longum Distillate, Piperonal, Piperonal Propyleneglycol Acetal, Piperonyl Acetate, Piperonyl Isobutyrate, Pipsissewa Leaves, Extract (Chimaphila Umbellata Nutt.), 1,3-P-Menthadien-7-Al,

P-Menthane-3,8-Diol, P-Menthan-7-Ol, P-Menth-1-En-9-Ol, Polyacrylamide, Polyacrylamide Resin, Modified, Poly(Acrylic Acid-Co-Hypophosphite), Sodium Salt, Polyacrylic Acid, Sodium Salt, Poly(Alkyl(C16-22)Acrylate), Polydextrose, Poly(Divinylbenzene-Co-Ethylstyrene), Poly(Divinylbenzene-Co-Trimethyl(Vinylbenzyl)Ammonium Chloride), Polyethylene (M W 2,000-21,000), Polyethylene Glycol (M W 200-9,500), Polyethylene Glycol (400) Dioleate, Polyethylene, Oxidized, Polyethylenimine Reaction Product W/ 1,2-Dichloroethane, Polyglycerol Esters Of Fatty Acids, Polyglyceryl Phthalate Ester Of Coconut Oil Fatty Acids, Polyisobutylene (Min M W 37,000), Polylimonene, Polymaleic Acid, Polymaleic Acid, Sodium Salt, Poly(Maleic Anhydride), Sodium Salt, Polyoxyethylene (600) Dioleate, Polyoxyethylene Dioleate, Polyoxyethylene (600) Monoricinoleate, Polyoxyethylene 40 Monostearate, Polypropylene Glycol (M W 1,200-3,000), Polysorbate 20, Polysorbate 60, Polysorbate 65, Polysorbate 80, Polystyrene, Cross-Linked, Chloromethylated, Then Aminated With Trimethylamine, Dimethylamine, Diethylenetriamine, Or Triethanolamine, Polyvinyl Acetate, Polyvinyl Alcohol, Polyvinyl Polypyrrolidone, Polyvinylpyrrolidone, Pomegranate Bark, Extract (Punica Granatum L.), Poplar Buds (Populus Spp.), Poppy Seed (Papaver Somniferum L.), Potassium Acetate, Potassium Acid Pyrophosphate, Potassium Acid Tartrate, Potassium Benzoate, Potassium Bicarbonate, Potassium Bisulfite, Potassium Borate, Potassium Bromate, Potassium Bromide, Potassium Caprate, Potassium Caprylate, Potassium Carbonate, Potassium Caseinate, Potassium Chloride, Potassium Citrate, 2-(1'-Ethoxy)Ethoxypropanoate, Potassium Fumarate, Potassium Gibberellate, Potassium Gluconate, Potassium Glycerophosphate, Potassium Hydroxide, Potassium Hypophosphate, Potassium Hypophosphite, Potassium Iodate, Potassium Iodide, Potassium Lactate, Potassium Laurate, Potassium Metabisulfite, Potassium N-Methyldithiocarbamate, Potassium Myristate, Potassium Nitrate, Potassium Nitrite, Potassium Oleate, Potassium Palmitate, Potassium Pectinate, Potassium Permanganate, Potassium Persulfate, Potassium Phosphate, Monobasic, Potassium Phosphate, Tribasic, Potassium Polymetaphosphate, Potassium Pyrophosphate, Potassium Salts Of Fatty Acids, Potassium Sorbate, Potassium Stearate, Potassium Sulfate, Potassium Sulfite, Potassium Tripolyphosphate, Potato Starch, Prenyl Acetate, Prenyl Benzoate, Prenyl Caproate, Prenyl Formate, Prenyl Isobutyrate, Prenyl Thioacetate, Prenylthiol, Prickly Ash Bark Extract (Xanthoxylum Spp.), Prickly Ash Bark, Oil, L-Proline, 1,2-(Di(1'-Ethoxy)Ethoxy)Propane, Propane, 1,3-

Propanedithiol, 1,2-Propanedithiol, 1,1-Propanedithiol, 2-Propanethiol, 3-(Methylthio)Propanol, (2-Furyl)-2-Propanone, 1-(P-Methoxyphenyl)-2-Propanone, Di-(1-Propenyl)-Sulfide (Mixture Of Isomers), 4-Propenyl-2,6-Dimethoxyphenol, Propenylguaethol, (Z)-4-Propenylphenol, 4-(2-Propenyl)Phenyl-Beta-D-Glucopyranoside, Propenyl Propyl Disulfide, Propionaldehyde, 3-(Methylthio)Propionaldehyde, Propionic Acid, 2-(4-Methyl-2-Hydroxyphenyl)Propionic Acid-Gamma-Lactone, 2-Propionylpyrrole, 2-Propionylpyrroline, 2-Propionylthiazole, 2-Propionyl-2-Thiazoline, Propiophenone, Propyl Acetate, Propyl Alcohol, Propylamine, P-Propylanisole, Propyl Benzoate, Propyl Butyrate, Propyl Cinnamate, Propyl 2,4-Decadienoate, 4-Propyl-2,6-Dimethoxyphenol, 2-Propyl-4,5-Dimethyloxazole, Propyl Disulfide, Propylene Chlorohydrin, Propylene Glycol, Propylene Glycol Alginate, Propyleneglycol Diacetate, Propylene Glycol Dibenzoate, Propyleneglycol Dibutyrate, Propyleneglycol Dihexanoate, Propyleneglycol Di-2-Methylbutyrate, Propyleneglycol Dioctanoate, Propyleneglycol Dipropionate, Propylene Glycol Mono- And Diesters Of Fats And Fatty Acids, Propyleneglycol Monobutyrate, Propyleneglycol Monohexanoate, Propyleneglycol Mono-2-Methylbutyrate, Propylene Glycol Stearate, Propylene Oxide, Propyl Formate, Propyl 2-Furanacrylate, Propyl 2-Furoate, Propyl Gallate, Propyl Heptanoate, Propyl Hexanoate, Propyl P-Hydroxybenzoate, 3-Propylidenephthalide, Propyl Isobutyrate, Propyl Isovalerate, Propyl Levulinate, Propyl Mercaptan, Propyl 2-Mercaptopropionate, Propyl 2-Methyl-3-Furyl Disulfide, Alpha-Propylphenethyl Alcohol, P-Propylphenol, O-Propylphenol, Propyl Phenylacetate, Propyl Propane Thiosulfonate, Propyl Propionate, 2-Propylpyrazine, 2-Propylpyridine, Propyl Pyruvate, Propyl Sorbate, Propyl 4-Tert-Butylphenylacetate, Propyl Thioacetate, Protease From Aspergillus Flavus, Protease From Aspergillus Niger, Protease From Aspergillus Oryzae, Protease From Bacillus Amyloliquefaciens, Protease From Bacillus Licheniformis, Protease From Bacillus Subtilis, Protein, Animal, Hydrolyzed, Protein Hydrolysate, Protein, Milk, Hydrolyzed, Protein, Vegetable, Hydrolyzed, Pseudoionone, Psyllium Seed Husk, Pulegone, Pulp, Pyrazine, Pyrazine Ethanethiol, Pyrazinyl Methyl Sulfide, 3-(2-Methylpropyl)Pyridine, Pyridine, 2-Pyridinemethanethiol, Pyridoxine, Pyridoxine Hydrochloride, Pyroligneous Acid, Pyroligneous Acid, Extract, Pyrrole, Pyrrolidine, Pyrrolidino-[1,2e]-4h-2,4-Dimethyl-1,3,5-Dithiazine, 1-Pyrroline, Pyruvaldehyde, Pyruvic Acid, Quassia, Extract (Picrasma Excelsa (Sw.) Planch Or Quassia Amara L.), Quaternary Ammonium Chloride Combination, Quebracho Bark Extract,

Quillaia Extract (Quillaja Saponaria Molina), Quillaia (Quillaja Saponaria Molina), Quince Seed, Extract (Cydonia Spp.), Quinine Bisulfate, Quinine Hydrochloride, Quinine Sulfate, Quinoline, Rapeseed Oil, Hydrogenated, Rapeseed Oil, Hydrogenated, Superglycerinated, Rapeseed Oil, Low Erucic Acid, Rapeseed Oil, Low Erucic Acid, Partially Hydrogenated, Rebaudioside C, Rebaudioside A, Rennet, Resin, From Formaldehyde, Acetone, And Tetraethylenepentamine, Resorcinol, L-Rhamnose, Rhatany, Extract (Krameria Spp.), Rhodinol, Rhodinyl Acetate, Rhodinyl Butyrate, Rhodinyl Formate, Rhodinyl Isobutyrate, Rhodinyl Isovalerate, Rhodinyl Phenylacetate, Rhodinyl Propionate, Rhubarb, Garden Root (Rheum Rhaponticum L.), Rhubarb Root (Rheum Spp.), Riboflavin, Riboflavin 5'-Phosphate, Riboflavin 5'-Phosphate, Sodium, D-Ribose, Rice Bran Wax, Rice, Milled, Rice Starch, (R)-(-)-1-Octen-3-Ol, Rose, Absolute (Rosa Spp.), Rose, Bud (Rosa Spp.), Rose Flowers (Rosa Spp.), Rose Hips, Extract (Rosa Spp.), Rose Leaves (Rosa Spp.), Roselle (Hibiscus Sabdariffa L.), Rosemary, Extract (Rosmarinus Officinalis L.), Rosemary, Oil (Rosemarinus Officinalis L.), Rosemary, Oleoresin, Rosemary (Rosemarinus Officinalis L.), Rose, Oil (Rosa Spp.), Rose Water, Stronger (Rosa Centifolia L.), Rosidinha (Micropholis (Also Known As Sideroxylon) Spp.), Rosin, Adduct With Fumaric Acid, Pentaerythritol Ester, Rosin, Glycerol Ester, Rosin, Gum, Glycerol Ester, Rosin, Gum Or Wood, Partially Hydrogenated, Glycerol Ester, Rosin, Gum Or Wood, Partially Hydrogenated, Pentaerythritol Ester, Rosin, Gum Or Wood, Pentaerythritol Ester, Rosin, Limed, Rosin, Methyl Ester, Partially Hydrogenated, Rosin, Partially Dimerized, Calcium Salt, Rosin, Partially Dimerized, Glycerol Ester, Rosin, Partially Hydrogenated, Rosin (Pinus Spp.) And Rosin Derivatives, Rosin, Polymerized, Glycerol Ester, Rosin, Tall Oil, Glycerol Ester, Rosin, Wood, Rosin, Wood, Glycerol Ester, Rosin, Wood, Maleic Anhyd. Mod., Pentaerythritol Ester, Acid #176-186, Rosin, Wood, Maleic Anhyd. Mod., Pentaerythritol Ester, Acid #134-145, (1r,2s,5r)-N-(4-Methoxyphenyl)-5-Methyl-2-(1-Methylethyl)Cyclohexanecarboxamide, Rubber, Natural-Smoked Sheet And Latex Solids (Hevea Brasiliensis), Rue, Oil (Ruta Graveolens L.), Rue (Ruta Graveolens L.), Rum, Rum Ether, Rutin, Saccharin, Saccharin, Ammonium Salt, Saccharin, Calcium Salt, Saccharin, Sodium Salt, Saffron (Crocus Sativus L.), Saffron, Extract (Crocus Sativus L.), Safrole-Free Extract Of Sassafras, Sage, Greek (Salvia Triloba L.), Sage, Oil (Salvia Officinalis L.), Sage, Oleoresin (Salvia Officinalis L.), Sage (Salvia Officinalis L.), Sage, Spanish, Oil (Salvia Lavandulaefolia Vahl.), Salicylaldehyde, Salicylic Acid, Salts Of Fatty

Acids, Sandalwood, Red (Pterocarpus Santalinus L.F.), Sandalwood, White (Santalum Album L.), Sandalwood, Yellow, Oil (Santalum Album L.), Sandarac (Tetraclinis Articulata (Vahl.) Mast.), Santalol, Beta, Santalol, Alpha, Santalol (Alpha And Beta), Santalyl Acetate, Santalyl Phenylacetate, Sarcodactylis Oil, Sarsaparilla, Extract (Smilax Spp.), Sassafras Bark, Extract (Safrole-Free) (Sassafras Albidum (Nutt.) Nees), Sassafras Leaves (Safrole-Free) (Sassafras Albidum (Nutt.) Nees), Sausage Casing (Hcl And Cellulose Fibers), Savory, Summer, Oil (Satureja Hortensis L.), Savory, Summer, Oleoresin (Satureja Hortensis L.), Savory, Summer (Satureja Hortensis L.), Savory, Winter, Oil (Satureja Montana L.), Savory, Winter, Oleoresin (Satureja Montana L.), Savory, Winter (Satureja Montana L.), Schinus Molle, Oil (Schinus Molle L.), (-)-Sclareol, Sclareolide, Scotch Spearmint Oil, Mentha Cardiaca L., 2-Sec-Butylcyclohexanone, Sec-Butyl Ethyl Ether, Senna, Alexandria (Cassia Acutifolia Delile), L-Serine, Serpentaria (Aristolochia Serpentaria L.), Sesame (Sesamum Indicum L.), Sheanut Oil, Shellac, Purified, Shellac Wax, Silica Aerogel, Silicon Dioxide, Silver Fir, Needles And Twigs, Oil (Abies Alba Mill.), Silver-Silver Dragees, Simaruba Bark (Simaruba Amara Aubl.), Skatole, Sloe Berries, Extract (Prunus Spinosa L.), Sloe Berries, Extract Solid (Prunus Spinosa L.), Sloe Berries (Prunus Spinosa L.), Snakeroot, Canadian, Oil (Asarum Canadense L.), Sodium Acetate, Sodium Acid Pyrophosphate, Sodium N-Alkylbenzenesulfonate, Sodium Aluminate, Sodium Aluminum Phosphate, Acidic Or Basic, Sodium Aluminum Silicate, Sodium Ascorbate, Sodium Benzoate, Sodium Bicarbonate, Sodium Bisulfite, Sodium Borate, Sodium Borohydride, Sodium Calcium Aluminosilicate, Hydrated, Sodium Caprate, Sodium Caprylate, Sodium Carbonate, Sodium Caseinate, Sodium Chloride, Sodium Chlorite, Sodium Copper Chlorophyllin, Sodium Decylbenzenesulfonate, Sodium Dehydroacetate, Sodium Diacetate, Sodium Dimethyldithiocarbamate, Sodium Dodecylbenzenesulfonate, Sodium Erythorbate, Sodium 2-Ethylhexyl Sulfate, Sodium Ferricitropyrophosphate, Sodium Ferritripolyphosphate, Sodium Fluoride, Sodium Formate, Sodium Fumarate, Sodium Glucoheptonate, Sodium Gluconate, Sodium Hexametaphosphate, Sodium Humate, Sodium Hydrosulfite, Sodium Hydroxide, Sodium Hypochlorite, Sodium Hypophosphite, Sodium Lactate, Sodium Laurate, Sodium Lauryl Sulfate, Sodium 3-Mercaptooxopropionate, Sodium Metabisulfite, Sodium Metaphosphate, Sodium Metasilicate, Sodium (4-Methoxybenzoyloxy)Acetate, Sodium 3-Methoxy-4-Hydroxycinnamate, Sodium 2-(4-Methoxyphenoxy)Propanoate, Sodium Methyl Sulfate, Sodium

Mono- And Dimethyl Naphthalene Sulfonates, Sodium Myristate, Sodium Nitrate, Sodium Nitrite, Sodium Oleate, Sodium Palmitate, Sodium Pantothenate, Sodium Pectinate, Sodium Phosphate, Dibasic, Sodium Phosphate, Monobasic, Sodium Phosphate, Tribasic, Sodium Polymethacrylate, Sodium Potassium Tartrate, Sodium Propionate, Sodium Pyrophosphate, Sodium Salts Of Fatty Acids, Sodium Sesquicarbonate, Sodium Silicate, Sodium Sorbate, Sodium Stearate, Sodium Stearoyl-2-Lactylate, Sodium Stearyl Fumarate, Sodium Sulfate, Sodium Sulfide, Sodium Sulfite, Sodium Tartrate, Sodium Taurocholate, Sodium Thiosulfate, Sodium Tripolyphosphate, Sodium Zinc Metasilicate, Sorbic Acid, Sorbitan Monooleate, Sorbitan Monostearate, D-Sorbitol, Sorbose, Soya Bean Oil Fatty Acids, Hydroxylated, Soya Fatty Acid Amine, Ethoxylated, Soybean Oil, Epoxidized, Soybean Oil, Hydrogenated, Soy Protein Concentrate, Enzyme Activated, Soy Protein, Isolate, Spearmint, Extract (Mentha Spicata L.), Spearmint (Mentha Spicata L.), Spearmint, Oil (Mentha Spicata L.), Sperm Oil, Sperm Oil, Hydrogenated, Spikenard Extract, Spiro(2,4-Dithia-1-Methyl-8-Oxabicyclo(3.3.0)Octane-3,3'-(1'-Oxa-2'-Methyl)Cyclopentane), Spruce Needles And Twigs, Extract (Picea Spp.), Spruce Needles And Twigs, Oil (Picea Spp.), (2s,5r)-N-[4-(2-Amino-2-Oxoethyl)Phenyl]-5-Methyl-2-(Propan-2-Yl)Cyclohexanecarboxamide, Stannic Chloride, Stannous Chloride, Starch, Acid Modified, Starch, Alpha-Amylase Modified, Starch, Bleached, Starch, Food, Modified, Starch, Food, Modified: Acetylated Distarch Adipate, Starch, Food, Modified: Acetylated Distarch Glycerol, Starch, Food, Modified: Acetylated Distarch Oxypropanol, Starch, Food, Modified: Acetylated Distarch Phosphate, Starch, Food, Modified: Beta-Amylase Modified Starch, Starch, Food, Modified: Beta-Amylase Sodium Starch Octenylsuccinate, Starch, Food, Modified: Distarch Glycerol, Starch, Food, Modified: Distarch Oxypropanol, Starch, Food, Modified: Distarch Phosphate (From Phosphorus Oxychloride), Starch, Food, Modified: Distarch Phosphate (From Sodium Trimetaphosphate), Starch, Food, Modified:Glucoamylase Modified Starch, Starch, Food, Modified: Hydroxypropyl Distarch Glycerol, Starch, Food, Modified: Hydroxypropyl Distarch Phosphate, Starch, Food, Modified: Hydroxypropyl Starch, Starch, Food, Modified: Isoamylase Modified Starch, Starch, Food, Modified: Oxidized Hydroxypropyl Starch, Starch, Food, Modified: Oxidized Starches, Starch, Food, Modified: Phosphated Distarch Phosphate, Starch, Food, Modified: Pullulanase Modified Starch, Starch, Food, Modified: Starch Acetate, Starch, Food, Modified: Starch Aluminum

Octenyl Succinate, Starch, Food, Modified: Starch Phosphate, Starch, Food, Modified: Starch Sodium Octenyl Succinate, Starch, Food, Modified: Starch Sodium Succinate, Starch, Food, Modified: Succinyl Distarch Glycerol, Starch, Pregelatinized, Starch, Unmodified, Stearic Acid, Stearyl Alcohol, Stearyl Alcohol, Plus Beeswax, Stearyl Citrate, Stearyl Monoglyceridyl Citrate, S-(Tetrahydro-2,5-Dimethyl-3-Furanyl) Ethanethioate, St. Johnswort Leaves, Flowers And Caulis (Hypericum Perforatuml.), Storax Extract (Liquidambar Spp.), Storax (Liquidambar Spp.), Storax Oil, Styrene, Styrene-Divinylbenzene-Acrylonitrile, Sulfonated Terpolymer, Styrene-Divinylbenzene Copolymer, Chloromethylated, Aminated, Oxidized, Styrene-Divinylbenzene-Methyl Acrylate, Sulfonated Terpolymer, Styrene, Divinylbenzene, Sulfonated Copolymer, Styrene-Dvb-Acrylonitrile-Methyl Acrylate, Sulfonated Tetrapolymer, Succinic Acid, Succinic Anhydride, Succinylated Gelatin, Succinylated Monoglycerides, Succistearin, Sucralose, Sucrose, Sucrose Acetate Isobutyrate, Sucrose Fatty Acid Esters, Sucrose Liquid, Sucrose Monopalmitate, Sucrose Octaacetate, Sucrose Oligoesters, Sugar Beet Juice Extract, Sugar Beet Extract Flavor Base, Sulfamic Acid, Sulfites, Strong Alkali, Sulfiting Agents, Sulfopropyl Cellulose, Sulfur Dioxide, Sulfuric Acid, Sulfurous Acid, Sweet Blackberry Leaves Extract, Tagetes Meal & Extract, Tagetes, Oil (Tagetes Spp.), Talc, Tallow Alcohol, Hydrogenated, Tallow, Beef, Tallow Flakes, Tallow, Hydrogenated, Tallow, Hydrogenated, Oxidized Or Sulfated, Tamarind Extract (Tamarindus Indica L.), Tamarinds, Tangerine, Essence, Tangerine, Extract (Citrus Reticulata Blanco), Tangerine, Oil (Citrus Reticulata Blanco), Tannic Acid, Tansy, Oil (Tanacetum Vulgara L.), Tansy (Tanacetum Vulgara L.), Tapioca Starch, Tarragon (Artemisia Dracunculus L.), Tarragon Extract (Artemisia Dracunculus L.), Tarragon Oil (Artemisia Dracunculus L.), Tartaric Acid, L, Taurine, Taurocholic Acid, Tea Extract (Thea Sinensis L.), Tea Tree Oil (Melaleuca Alternifolia), Terpene Resin, Terpene Resins, Natural, Terpene Resins, Synthetic, Alpha-Terpinene, Gamma-Terpinene, Alpha-Terpineol, Beta-Terpineol, Terpinolene, Terpinyl Acetate, Alpha-Terpinyl Anthranilate, Terpinyl Butyrate, Terpinyl Cinnamate, Terpinyl Formate, Terpinyl Isobutyrate, Terpinyl Isovalerate, Terpinyl Propionate, Tert-Butylhydroquinone, 2-Tert-Pentylcyclohexyl Acetate, Delta-Tetradecalactone, (Z)-8-Tetradecenal, Tetradec-2-Enal, 9-Tetradecen-5-Olide, Tetraethylenepentamine Crosslinked With Epichlorohydrin, 1,1'-(Tetrahydro-6a-Hydroxy-2,3a,5-Trimethylfuro[2,3-D]-1,3-Dioxole-2,5-Diyl)Bis-Ethanone, 1,2,5,6-Tetrahydrocuminic Acid, 4,5,6,7-Tetrahydro-3,6-

Dimethylbenzofuran, Tetrahydrofurfuryl Acetate, Tetrahydrofurfuryl Alcohol, Tetrahydrofurfuryl Butyrate, Tetrahydrofurfuryl Cinnamate, 2-Tetrahydrofurfuryl 2-Mercaptopropionate, Tetrahydrofurfuryl Propionate, Tetrahydrolinalool, Tetrahydro-4-Methyl-2-(2-Methylpropen-1-Yl)Pyran, Tetrahydro-Pseudo-Ionone, 5,6,7,8-Tetrahydroquinoxaline, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-Ol, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-One, Alpha-(P-(1,1,3,3-Tetramethylbutyl)Phenyl)-Omega-Hydroxypoly(Oxyethylene)(1 Mol), Alpha-{P-(1,1,3,3-Tetramethylbutyl)Phenyl}-Omega-Hydroxypoly(Oxyethylene), Alpha-(P-(1,1,3,3-Tetramethylbutyl)Phenyl)-Omega-Hydroxypoly(Oxyethylene)(Greater Than 1 Mol), Tetramethyl Ethylcyclohexenone (Mixture Of Isomers), (+/-)-2,6,10,10-Tetramethyl-1-Oxaspiro[4,5]Deca-2,6-Dien-8-One, 1,5,5,9-Tetramethyl-13-Oxatricyclo(8.3.0.0(4,9))Tridecane, 2,3,5,6-Tetramethylpyrazine, Thaumatin, Thaumatin B, Recombinant, Theaspirane, Theobromine, Thiamine, Thiamine Hydrochloride, Thiamine Mononitrate, Thiazole, 2-Thienyl Disulfide, 1-(2-Thienyl)Ethanethiol, 2-Thienyl Mercaptan, 2-Thienylmethanol, Thioacetic Acid, 2,2'-(Thiodimethylene)-Difuran, Thiodipropionic Acid, Thiogeraniol, Thistle, Blessed (Cnicus Benedictus L.), Thistle, Blessed, Extract (Cnicus Benedictus L.), Thistle, Blessed, Extract Solid (Cnicus Benedictus L.), Thistle, Blessed, Oil (Cnicus Benedictus L.), L-Threonine, 4-Thujanol, Thujyl Alcohol, Thyme, Extract, Thyme Oil (Thymus Vulgaris L. And T. Zygis Var. Gracilis Boiss.), Thyme Oleoresin, Thyme (Thymus Serpyllum L.), Thyme (Thymus Vulgaris L.), Thyme, Wild Or Creeping, Extract (Thymus Serpyllum L.), Thymol, Titanium Dioxide, Alpha-Tocopherol Acetate, Tocopherols, Tolualdehyde Glyceryl Acetal (Mixed O-, M-, P-), Tolualdehydes (Mixed O-, M-, P-), Tolu Balsam Extract (Myroxylon Spp.), Tolu Balsam Gum (Myroxylon Spp.), O-Toluenethiol, P-Tolylacetaldehyde, O-Tolyl Acetate, P-Tolyl Acetate, 4-(P-Tolyl)-2-Butanone, O-Tolyl Isobutyrate, P-Tolyl Isobutyrate, P-Tolyl Laurate, P-Tolyl 3-Methylbutyrate, P-Tolyl Octanoate, P-Tolyl Phenylacetate, 2-(P-Tolyl)-Propionaldehyde, O-Tolyl Salicylate, Tomato Lycopene, Tragacanth, Gum (Astragalus Spp.), (+/-)-Trans- And Cis-2-Hexenal Propylene Glycol Acetal, 2-Trans-6-Cis-Dodecadienal, 2-Trans-6-Cis-Nonadienal, O-Trans-Coumaric Acid, Trans-2-Decenol, Trans-3-Heptenyl Acetate, Trans-3-Hexenol, Trans-3-Hexenyl Acetate, Trans-2-Hexen-1-Yl Acetate, Trans-2-Hexenyl 2-Methylbutyrate, Trans-4-Nonenal, Trans-3-Nonen-1-Ol, Trans-2-Nonen-4-One, Trans-2-Nonenyl Acetate, Trans-4-

Octenoic Acid, 2-(Trans-2-Pentenyl)Cyclopentanone, Trans-4-Tert-Butylcyclohexanol, Trans,Trans-2,4-Dodecadienal, Trans-2-Trans-4-Nonadiene, Trans-2-Tridecenol, Trefoil, Sweet (Melilotus Coerulea), Trehalose, Dihydrate, Triacetin (Glycerol Triacetate), Tributyl Acetylcitrate, Trichloroethylene, Tridecanal, Tridecanoic Acid, 2-Tridecanone, 2-Trans,4-Cis,7-Cis-Tridecatrienal, 2-Tridecenal, Tridodecyl Amine, Triethanolamine, Triethylamine, Triethyl Citrate, Triethylenetetramine Cross-Linked With Epichlorohydrin, Trifluoromethane Sulfonic Acid, 2,4,5-Trihydroxybutyrophenone, (Trihydroxy-Phenyl)-Propan-1-One, Trilobatin, Trimethylamine, Trimethylamine Oxide, 2,6,6-Trimethyl-1 And 2-Cyclohexen-1-Carboxaldehyde, P,Alpha,Alpha-Trimethylbenzyl Alcohol, 4-(2,6,6-Trimethylcyclohexa-1,3-Dienyl)But-2-En-4-One, 2,6,6-Trimethylcyclohexa-1,3-Dienyl Methanal, 3,3,5-Trimethylcyclohexanol, 2,2,6-Trimethylcyclohexanone, 2,6,6-Trimethyl-1-Cyclohexen-1-Acetaldehyde, 2,6,6-Trimethylcyclohex-2-Ene-1,4-Dione, 4-(2,6,6-Trimethylcyclohex-1-Enyl)But-2-En-4-One, 3,3,5-Trimethylcyclohexyl Acetate, 2,2,3-Trimethylcyclopent-3-En-1-Yl Acetaldehyde, 4-(2,2,3-Trimethylcyclopentyl)Butanoic Acid, 3,7,11-Trimethyldodeca-2,6,10-Trienyl Acetate, 3,5,5-Trimethylhexanal, 3,5,5-Trimethyl-1-Hexanol, 2,6,6-Trimethyl-2-Hydroxycyclohexanone, (2,6,6-Trimethyl-2-Hydroxycyclohexylidene)Acetic Acid Gamma-Lactone, 2,3,3-Trimethylindanone, Trans- And Cis-2,4,8-Trimethyl-3,7-Nona-Dien-2-Ol, (+/-)-2,4,8-Trimethyl-7-Nonen-2-Ol, 1,3,3-Trimethyl-2-Norbornanyl Acetate, 2,2,4-Trimethyl-1,3-Oxacyclopentane, Trimethyloxazole, 2,4,5-Trimethyl-Delta-3-Oxazoline, 2,6,10-Trimethyl-2,6,10-Pentadecatrien-14-One, 2,3,4-Trimethyl-3-Pentanol, 2,4,6-Trimethylphenol, 2,3,6-Trimethylphenol, 2,3,5-Trimethylpyrazine, 2,4,5-Trimethylthiazole, 2,2,6-Trimethyl-6-Vinyltetrahydropyran, Tripropylamine, 1,2,3-Tris((1'-Ethoxy)Ethoxy)-Propane, Trisodium Citrate, Trisodium Nitrilotriacetate, 2,4,6-Trithiaheptane, Trithioacetone, Trypsin From Animal Tissue, L-Tryptophan, Tuberose Lactone, Tuberose, Oil (Polianthes Tuberosa L.), Tunu (Castilla Fallax Cook), Turmeric (Curcuma Longa L.), Turmeric Extract (Curcuma Longa L.), Turmeric Oleoresin (Curcuma Longa L.), Turpentine, Turpentine, Gum (Pinus Spp.), Turpentine, Rectified, Turpentine, Steam Distilled (Pinus Spp.), Tyramine, L-Tyrosine, L-Tyrosine Ethyl Ester Hydrochloride, Ultramarine Blue, 2,4-Undecadienal, 2,5-Undecadienal, 2,3-Undecadione, Gamma-Undecalactone, Undecanal, Undecanal Propyleneglycol Acetal, Undecanoic Acid, 2-Undecanol, 2-Undecanone, 1,3,5,7-Undecatetraene, 1,3,5-Undecatriene, 9-Undecenal, 10-

Undecenal, 2-Undecenal, (E)-4-Undecenal, 10-Undecenoic Acid, 2-Undecen-1-Ol, Undecen-1-Ol, 2-Undecen-1-Ol, 10-Undecen-2-One, 10-Undecen-1-Yl Acetate, Undecyl Alcohol, N-Undecylbenzenesulfonic Acid, Urea, Urease Enzyme Preparation (Lactobacillus Fermentum), Valencene, Valeraldehyde, Valeraldehyde Dibutyl Acetal, Valeraldehyde Propyleneglycol Acetal, Valerian Root, Extract (Valeriana Officinalis L.), Valerian Root, Oil (Valeriana Officinalis L.), Valeric Acid, Gamma-Valerolactone, L-Valine, Vanilla, Absolute (Vanilla Spp.), Vanilla, Extract (Vanilla Spp.), Vanilla, Oleoresin (Vanilla Spp.), Vanilla (Vanilla Spp.), Vanillic Acid, Vanillin, Vanillin Acetate, Vanillin 1,2-Butylene Glycol Acetal, Vanillin Isobutyrate, Vanillin 3-(L-Menthoxy)Propane-1,2-Diol Acetal, Vanillin Propylene Glycol Acetal, Vanillyl Alcohol, Vanillyl Butyl Ether, Vanillyl Ethyl Ether, Vanillylidene Acetone, Vegetable Gum, Other Than Those Cfr Listed, Vegetable Juice, Veratraldehyde, Verbenol, Verbenone, Veronica (Veronica Officinalis L.), Vervain, European (Verbena Officinalis L.), Vetiver, Oil (Vetiveria Zizanioides Stapf), Vetiverol, Vetiver (Vetiveria Zizaniodes Stapf), Vetiveryl Acetate, Vinyl Acetate, O-Vinylanisole, Vinyl Chloride-Vinylidene Chloride Copolymer, P-Vinylphenol, Violet Leaves Absolute (Viola Odorata L.), Violet, Swiss (Viola Calcarata L.), Vitamin D-2, Vitamin D-3, Vitamin B-12, Vitamin A, Vitamin A Acetate, Vitamin B Complex And Syrup, Vitamin D, Vitamin K, Vitamin A Palmitate, Walnut Hull, Extract (Juglans Spp.), Walnut Leaves, Extract (Juglans Spp.), Wheat Gluten, Wheat Starch, Whey, Whey, Delactosed, Whey, Demineralized, Whey, Partially Dimineralized And Partially Delactosed, Whey Protein Concentrate, Whey Powder, Wintergreen, Extract (Gaultheria Procumbens L.), Wintergreen, Oil (Gaultheria Procumbens L.), Woodruff, Sweet (Asperula Odorata L.), Wort, Xanthan Gum, Xanthophyll, 2,6-Xylenol, 2,5-Xylenol, 3,4-Xylenol, Xylitol, D-Xylose, Yarrow, Herb (Achillea Millefolium L.), Yarrow, Oil (Achillea Millefolium L.), Yeast Autolysate, Yeast, Dried Irradiated, Yeast Extract Autolyzed, Yeast-Malt Sprout Extract, Yeasts, Dried Yeasts, Yellow Prussiate Of Soda, Yerba Santa, Fluid Extract (Eriodictyon Californicum (Hook And Arn) Torr), Ylang-Ylang, Oil (Cananga Odorata Hook. F. And Thomas), Yucca, Joshua-Tree (Yucca Brevifolia Engelm.), Yucca, Mohave, Extract (Yucca Spp.), Yuzunone, Zedoary Bark, Extract (Curcuma Zedoaria (Berg.) Rosc.), Zedoary (Curcuma Zedoaria (Berg.) Rosc.), Zein Powder, Zinc Acetate, Zinc Carbonate, Zinc Chloride, Zinc

Dithionite, Zinc Gluconate, Zinc Methionine Sulfate, Zinc Oxide, Zinc Stearate, Zinc Sulfate, and Zingerone.

[0187] Food additives may also include, without limitation, vanillin, ethyl vanillin, 2-hydroxy-4-methoxybenzaldehyde, ethyl vanillin isobutyrate (=3 ethoxy-4-isobutyryloxybenzaldehyde), Furaneol.RTM. (2,5-dimethyl-4-hydroxy-3(2H)-furanone) and derivatives (e.g. homofuraneol, 2-ethyl-4-hydroxy-5-methyl-3(2H)-furanone), homofuronol (2-ethyl-5-methyl-4-hydroxy-3(2H)-furanone and 5-ethyl-2-methyl-4-hydroxy-3(2H)-furanone), maltol and its derivatives (e.g. ethyl maltol), coumarin and its derivatives, gamma-lactones (e.g. gamma-undecalactone, gamma-nonalactone), delta-lactones (e.g. 4-methyl delta-lactone, massoia lactone, deltadecalactone, tuberolactone), methyl sorbate, divanillin, 4-hydroxy-2(or 5)-ethyl-5(or 2)-methyl-3(2H)furanone, 2-hydroxy-3-methyl-2-cyclopentenone, 3-hydroxy-4,5-dimethyl-2(5H)-furanone, fruit esters and fruit lactones (e.g. acetic acid n-butyl ester, acetic acid isoamyl ester, propionic acid ethyl ester, butyric acid ethyl ester, butyric acid n-butyl ester, butyric acid isoamyl ester, 3-methyl-butyric acid ethyl ester, n-hexanoic acid ethyl ester, n-hexanoic acid allyl ester, n-hexanoic acid n-butyl ester, n-octanoic acid ethyl ester, ethyl-3-methyl-3-phenylglycidate, ethyl-2-trans-4-cis-decadienoate), 4-(p-hydroxyphenyl)-2-butanone, 1,1-dimethoxy-2,2,5-trimethyl-4-hexane, 2,6-dimethyl-5-hepten-1-al, and phenylacetaldehyde and mixtures thereof; (a2) carbohydrates selected from the group consisting of saccharose, trehalose, lactose, maltose, melizitose, melibiose, raffinose, palatinose, lactulose, D-fructose, D-glucose, D-galactose, L-rhamnose, D-sorbose, D-mannose, D-tagatose, D-arabinose, L-arabinose, D-ribose, D-glyceraldehyde, maltodextrins and mixtures thereof and plant formulations containing one or a plurality of the cited carbohydrates, preferably in a proportion of at least 5 wt %, preferably at least 15 wt %, whereby the carbohydrates can also be present as a naturally occurring or synthetically produced mixture, in this arrangement particularly as honey, invert sugar syrup or highly enriched fructose syrup from maize starch, and the physiologically acceptable salts of these carbohydrates, particularly sodium, potassium, calcium or ammonium salts; (a3) sugar alcohols, preferably naturally occurring sugar alcohols selected from the group consisting of glycerine, erythritol, threitol, arabitol, ribitol, xylitol, sorbitol, mannitol, maltitol, isomalt, dulcitol, lactitol and mixtures thereof, and the physiologically acceptable salts of these sugar alcohols, particularly sodium, potassium, calcium or ammonium

salts; (a4) naturally occurring sweeteners, preferably selected from the group consisting of (a4-1)miraculin, monellin, mabinlin, thaumatin, curculin, brazzein, pentaidin, D-phenylalanine, D-tryptophan, and extracts or fractions obtained from natural sources containing these amino acids and/or proteins and mixtures thereof, and the physiologically acceptable salts of these amino acids and/or proteins, particularly the sodium, potassium, calcium or ammonium salts; (a4-2)neohesperidin dihydrochalcone, naringin dihydrochalcone, stevioside, steviolbioside, rebaudiosides, particularly rebaudioside A, rebaudioside B, rebaudioside C, rebaudioside D, rebaudioside E, rebaudioside F, rebaudioside G, rebaudioside H, dulcosides and rubusoside, suavioside A, suavioside B, suavioside G, suavioside H, suavioside I, suavioside J, baiyunoside 1 baiyunoside 2, phlomisoside 1, phlomisoside 2, phlomisoside 3, and phlomisoside 4, abrusoside A, abrusoside B, abrusoside C, abrusoside D, cyclocaryoside A and cyclocaryoside I, osladin, polypodoside A, strogin 1, strogin 2, strogin 4, selligueain A, dihydroquercetin-3-acetate, perillartine, telosmoside A.sub.15, periandrin I-V, pterocaryosides, cyclocaryosides, mukuroziosides, trans-anethole, trans-cinnamaldehyde, bryosides, bryonosides, bryonodulcosides, carnosiflosides, scandenosides, gypenosides, trilobatin, phloridzin, dihydroflavanols, hematoxylin, cyanine, chlorogenic acid, albiziasaponin, telosmosides, gaudichaudioside, mogrosides, mogroside V, hernandulcins, monatin, phyllodulcin, glycyrrhetinic acid, and derivatives thereof and mixtures thereof, particularly its glycosides such as glycyrrhizin, and the physiologically acceptable salts of these compounds, particularly the sodium, potassium, calcium or ammonium salts; (a4-3) extracts or enriched fractions of extracts, selected from the group consisting of Thaumatococcus extracts (katemfe bush), extracts of Stevia ssp. (particularly Stevia rebaudiana), swingle extracts (Momordica or Siratia grosvenorii, Luo-Han-Guo), extracts of Glycerrhyzia ssp. (particularly Glycerrhyzia glabra), extracts of Rubus ssp. (particularly Rubus suavissimus), citrus extracts, and extracts of Lippia dulcis and mixtures thereof, and mixtures of any of (a4-1) to (a4-3); (a5) synthetically sweet-tasting substances, preferably selected from the group consisting of magap, sodium cyclamate or other physiologically acceptable salts of cyclamic acid, acesulfame K or other physiologically acceptable salts, neohesperidin dihydrochalcone, naringin dihydrochalcone, saccharin, saccharin-sodium salt, aspartame, superaspartame, neotame, alitame, advantame, perillartine, sucralose, lugduname, carrelame, sucrononate, and sucrooctate.

[0188] In some embodiments, the composition comprises a sweetening compound and/or sweet taste enhancer as described herein, and one or more flavorants. Representative flavorants include but are not limited to, those compounds identified as such by the Flavor and Extract Manufacturers Association (FEMA; see the FEMA Flavor Ingredient Library, accessible at http://www.femaflavor.org/flavor, last accessed November 16, 2015). Such flavorants include: Acacia Gum (Acacia Senegal (L.) Willd.), Acetal, Acetaldehyde, Propyl Phenethyl Acetal, Acetanisole, Acetic Acid, (Tri-)Acetin, Acetoin, Acetophenone, Aconitic Acid, Adipic Acid, Agar (Gelidium Spp.), Alfalfa Extract (Medicago Sativa L.), Algin (Laminaria Spp. And Other Kelps), Alginates, Sodium, Calcium, And Ammonium, Allspice (Pimenta Officinalis Lindl.), Allspice Oil (Pimenta Officinalis Lindl.), Allspice Oleoresin (Pimenta Officinalis Lindl.), Allyl Anthranilate, Allyl Butyrate, Allyl Cinnamate, Allyl Cyclohexaneacetate, Allyl Cyclohexanebutyrate, Allyl Cyclohexanehexanoate, Allyl Cyclohexanepropionate, Allyl Cyclohexanevalerate, Allyl Disulfide, Allyl 2-Ethylbutyrate, Allyl 2-Furoate, Allyl Heptanoate, Allyl Hexanoate, Allyl Alpha-Ionone, Allyl Isothiocyanate, Allyl Mercaptan, Allyl Nonanoate, Allyl Octanoate, Allyl Phenoxyacetate, Allyl Phenylacetate, Allyl Propionate, Allyl Sorbate, Allyl Sulfide, Allyl Tiglate, Allyl 10-Undecenoate, Allyl Isovalerate, Almond Oil, Bitter (Ffpa) (Prunus Spp.), Aloe Extract (Aloe Spp.), Althea Root (Althea Officinalis L.), Ambergris Tincture, Ambrette Absolute Oil (Hibiscus Abelmoschus L.), Ambrette Seed Oil (Hibiscus Abelmoschus L.), Ambrette Tincture (Hibiscus Abelmoschus L.), Ammonium Sulfide, Ammonium Isovalerate, Isoamyl Acetate, Amyl Alcohol, Isoamyl Alcohol, Isoamyl Benzoate, Amyl Butyrate, Isoamyl Butyrate, Alpha-Amylcinnamaldehyde, Alpha-Amylcinnamaldehyde Dimethyl Acetal, Isoamyl Cinnamate, Alpha-Amylcinnamyl Acetate, Alpha-Amylcinnamyl Alcohol, Alpha-Amylcinnamyl Formate, Alpha-Amylcinnamyl Isovalerate, Amyl Formate, Isoamyl Formate, Isoamyl 4(2-Furan)Butyrate, Isoamyl 3(2-Furan)Propionate, Amyl 2-Furoate, Amyl Heptanoate, Amyl Hexanoate, Isoamyl Hexanoate, 2-Amyl-5 Or 6-Keto-1,4-Dioxane, Isoamyl Laurate, Isoamyl Nonanoate, Amyl Octanoate, Isoamyl Octanoate, Isoamyl Phenylacetate, Isoamyl Propionate, Isoamyl Pyruvate, Isoamyl Salicylate, Isoamyl Isovalerate, Trans-Anethole, Angelica Root Extract (Angelica Archangelica L.), Angelica Root Oil (Angelica Archangelica L.), Angelica Seed Extract (Angelica Archangelica L.), Angelica Seed Oil (Angelica Archangelica L.), Angelica Stem Oil (Angelica Archangelica L.), Angostura Extract

(Galipea Offincinalis Hancock), Anise (Pimpinella Anisum L.), Anise Oil (Pimpinella Anisum L.), Anise, Star (Illicium Verum Hook, F.), Anise, Star, Oil (Illicium Verum Hook, F.), Anisole, P-Anisyl Acetate, Anisyl Alcohol, Anisyl Butyrate, Anisyl Formate, Anisyl Propionate, Annatto Extract (Bixa Orellana L.), Annatto Seed (Bixa Orellana L.), Apricot Kernel Oil (Prunus Armeniaca L.), Asafetida Fluid Extract (Ferula Assafoetida L.), Asafetida Gum (Ferula Assafoetida L.), Asafoetida Oil (Ferula Asafoetida L.), Ascorbic Acid, Ash Bark, Prickly, Extract (Xanthoxylum Spp.), Balm (Melissa Officinalis L.), Balm Leaves Extract (Melissa Officinalis L.), Balm Oil (Melissa Officinalis L.), Balsam Fir Oil (Abies Balsamea (L.) Mill.), Balsam Fir Oleoresin (Abies Balsamea (L.) Mill.), Balsam, Peru (Myroxylon Pereirae Klotzsch), Balsam Oil, Peru (Myroxylon Pereirae Klotzsch), Basil (Ocimum Basilicum L.), Basil Oil (Ocimum Basilicum L.), Basil Oleoresin (Ocimum Basilicum L.), Bay Leaves, West Indian, Extract (Pimenta Acris Kostel), Bay Leaves, West Indian, Oil (Pimenta Acris Kostel), Bay Leaves, West Indian, Oleoresin (Pimenta Acris Kostel), Bay, Sweet (Laurus Nobilis L.), Bay Oil, Sweet (Laurus Nobilis L.), Beeswax, White (Apis Mellifera L.), Benzaldehyde, Benzaldehyde Dimethyl Acetal, Benzaldehyde Glyceryl Acetal, Benzaldehyde Propylene Glycol Acetal, Benzoic Acid, Benzoin, Benzoin Resinoid, Benzophenone, Benzyl Acetate, Benzyl Acetoacetate, Benzyl Alcohol, Benzyl Benzoate, Benzyl Butyl Ether, Benzyl Butyrate, Benzyl Isobutyrate, Benzyl Cinnamate, Benzyl 2,3-Dimethylcrotonate, Benzyl Ethyl Ether, Benzyl Formate, 3-Benzyl-4-Heptanone, Benzyl Mercaptan, Benzyl Methoxyethyl Acetal, Benzyl Phenylacetate, Benzyl Propionate, Benzyl Salicylate, Benzyl Isovalerate, Bergamot Oil, Birch, Sweet, Oil (Betula Lenta L.), Blackberry Bark Extract (Rubus, Spp. Of Section Eubatus), Bois De Rose Oil, Borneol, Isoborneol, Bornyl Acetate, Isobornyl Acetate, Bornyl Formate, Isobornyl Formate, Isobornyl Propionate, Bornyl Valerate, Bornyl Isovalerate (Endo-), Isobornyl Isovalerate, Boronia Absolute (Boronia Megastigma Nees), Buchu Leaves Oil (Barosma Spp.), 2-Butanone, Butter Acids, Butter Esters, Butter Starter Distillate, Butyl Acetate, Isobutyl Acetate, Butyl Acetoacetate, Isobutyl Acetoacetate, Butyl Alcohol, Isobutyl Alcohol, Isobutyl Angelate, Butyl Anthranilate, Isobutyl Anthranilate, Butylated Hydroxyanisole, Butylated Hydroxytoluene, Isobutyl Benzoate, Butyl Butyrate, Isobutyl Butyrate, Butyl Isobutyrate, Isobutyl Isobutyrate, Butyl Butyryllactate, Alpha-Butylcinnamaldehyde, Butyl Cinnamate, Isobutyl Cinnamate, Butyl 2-Decenoate, Butyl Ethyl Malonate, Butyl Formate, Isobutyl Formate,

Isobutyl 3-(2-Furan)Propionate, Butyl Heptanoate, Isobutyl Heptanoate, Butyl Hexanoate, Isobutyl Hexanoate, Butyl P-Hydroxy Benzoate, 2-Butyl-5- Or 6-Keto-1,4-Dioxane, Butyl Lactate, Butyl Laurate, Butyl Levulinate, Alpha-Isobutylphenethyl Alcohol, Butyl Phenylacetate, Isobutyl Phenylacetate, Butyl Propionate, Isobutyl Propionate, Isobutyl Salicylate, Butyl Stearate, Butyl Sulfide, Butyl 10-Undecenoate, Butyl Valerate, Butyl Isovalerate, Butyraldehyde, Isobutyraldehyde, Butyric Acid, Isobutyric Acid, (Tri-)Butyrin, Caffeine, Cajeput Oil (Melaleuca Leucadendron L.), Calcium Acetate, Camphene, D-Camphor, Camphor, Japanese, White, Oil (Cinnamomum Camphora (L.) Nees Et Eberm.), Cananga Oil, Capsicum Extract (Capsicum Spp.), Capsicum Oleoresin (Capsicum Spp.), Caramel Color, Caraway (Carum Carvi L.), Caraway, Black (Nigella Sativa L.), Caraway Oil, Carboxymethylcellulose, Cardamom (Elettaria Cardamomum (L.) Maton), Cardamom Seed Oil (Elettaria Cardamomum (L.) Maton), Carmine (Coccus Cacti L.), Carob Bean Extract (Ceratonia Siliqua L.), Carrot Oil, Carvacrol, Carvacryl Ethyl Ether, Carveol, 4-Carvomenthenol, Carvone, Carvyl Acetate, Carvyl Propionate, Beta-Caryophyllene, Cascara Bitterless Extract (Rhamnus Purshiana Dc.), Cascarilla Bark Extract (Croton Spp.), Cascarilla Bark Oil (Croton Spp.), Cassia (Cinnamomum Cassia Blume), Cassia Bark Extract (Cinnamomum Cassia Blume), Cassia Bark Oil, Cassia Buds (Cinnamomum Cassia Blume), Cassie Absolute (Acacia Farnesiana (L.) Willd.), Castoreum Oil, Castoreum, Liquid (Castor Spp.), Castor Oil (Ricinus Communis L.), Catechu Extract (Acacia Catechu Willd.), Catechu Powder (Acacia Catechu Willd.), Cayenne (Capsicum Annuum L. Var. Longum Sendt), Cedar Leaf Oil (Thuja Occidentalis L.), Celery Seed (Apium Graveolens L.), Celery Seed Extract (Apium Graveolens L.), Celery Seed Extract Solid (Apium Graveolens L.), Celery Seed Oil, Chamomile Flower, English, Oil (Anthemis Nobilis L.), Chamomile Flower, Hungarian, Oil (Matricaria Chamomilla L.), Chamomile Flower, Roman, Extract (Anthemis Nobilis L.), Chamomile Flower, Roman, Oil (Anthemis Nobilis L.), Cherry Bark, Wild, Extract (Prunus Serotina Ehrh.), Cherry Laurel Oil (Ffpa) (Prunus Laurocerasus L.), Cherry Pits Extract (Prunus Spp.), Chervil (Anthriscus Cerefolium (L.) Hoffm.), Chicory Extract (Cichorium Intybus L.), Cinchona Bark Red (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark Red Extract (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark Yellow (Cinchona Spp.), Cinchona Bark Yellow Extract (Cinchona Spp.), Cinchona Extract (Cinchona Spp.), Cinnamaldehyde, Cinnamaldehyde Ethylene Glycol Acetal, Cinnamic Acid, Cinnamon (Cinnamomum Spp.),

Cinnamon Bark Extract (Cinnamomum Spp.), Cinnamon Bark Oil, Cinnamon Leaf Oil, Cinnamyl Acetate, Cinnamyl Alcohol, Cinnamyl Butyrate, Cinnamyl Isobutyrate, Cinnamyl Cinnamate, Cinnamyl Formate, Cinnamyl Phenylacetate, Cinnamyl Propionate, Cinnamyl Isovalerate, Citral, Citral Diethyl Acetal, Citral Dimethyl Acetal, Citric Acid, Citronellal, Citronella Oil, Dl-Citronellol, Citronelloxyacetaldehyde, Citronellyl Acetate, Citronellyl Butyrate, Citronellyl Isobutyrate, Citronellyl Formate, Citronellyl Phenylacetate, Citronellyl Propionate, Citronellyl Valerate, Citrus Peels Extract (Citrus Spp.), Civet Absolute (Viverra Civetta Schreber And Viverra Zibetha Schreber), Clary (Salvia Sclarea L.), Clary Oil (Salvia Sclarea L.), Clove Bud Extract (Eugenia Spp.), Clove Bud Oil (Eugenia Spp.), Clove Bud Oleoresin (Eugenia Spp.), Clove Leaf Oil, Madagascar, Clover Tops Red Extract Solid (Trifolium Pratense L.), Cloves (Eugenia Spp.), Clove Stem, Oil (Eugenia Spp.), Coca Leaf Extract (Decocainized) (Erythroxylon Coca Lam.), Cognac Oil, Green, Cognac Oil, White, Coriander (Coriandrum Sativum L.), Coriander Oil (Coriandrum Sativum L.), Corn Silk (Zea Mays L.), Costus Root Oil (Saussurea Lappa Clarke), P-Cresol, Cubebs (Piper Cubeba L. F.), Cubeb Oil (Piper Cubeba L. F.), Cumin (Cuminum Cyminum L.), Cuminaldehyde, Cumin Black (Nigella Sativa L.), Cumin Oil, Curacao Peel Extract (Citrus Aurantium L.), Curacao Peel Oil (Citrus Aurantium L.), Currant Buds Black Absolute (Ribes Nigrum L.), Cyclohexaneacetic Acid, Cyclohexaneethyl Acetate, Cyclohexyl Acetate, Cyclohexyl Anthranilate, Cyclohexyl Butyrate, Cyclohexyl Cinnamate, Cyclohexyl Formate, Cyclohexyl Propionate, Cyclohexyl Isovalerate, P-Cymene, Dandelion Fluid Extract (Taraxacum Spp.), Dandelion Root Extract Solid (Taraxacum Spp.), Davana Oil (Artemisia Pallens Wall.), Gamma-Decalactone, Delta-Decalactone, Decanal, Decanal Dimethyl Acetal, Decanoic Acid, 1-Decanol, 2-Decenal, Decyl Acetate, Decyl Butyrate, Decyl Propionate, Diacetyl, Dibenzyl Ether, 4,4-Dibutyl-Gamma-Butyrolactone, Dibutyl Sebacate, Diethyl Malate, Diethyl Malonate, Diethyl Sebacate, Diethyl Succinate, Diethyl Tartrate, Dihydrocarveol, Dihydrocarvyl Acetate, Dihydrocoumarin, Dill (Anethum Graveolens L.), Dill Oil (Anethum Graveolens L.), Dill Seed Indian (Anethum Spp.), M-Dimethoxybenzene, P-Dimethoxybenzene, 2,4-Dimethylacetophenone, Alpha,Alpha-Dimethylbenzyl Isobutyrate, 2,6-Dimethyl-5-Heptenal, 2,6-Dimethyloctanal, 3,7-Dimethyl-1-Octanol, Alpha,Alpha-Dimethylphenethyl Acetate, Alpha,Alpha-Dimethylphenethyl Alcohol, Alpha,Alpha-Dimethylphenethyl Butyrate, Alpha,Alpha-Dimethylphenethyl Formate, Dimethyl

Succinate, 1,3-Diphenyl-2-Propanone, Disodium Phosphate, Dittany Of Crete (Origanum Dictamnus L.), Gamma-Dodecalactone, Delta-Dodecalactone, 2-Dodecenal, Doggrass Extract (Agropyron Repens (L.) Beauv.), Dragon's Blood Extract (Daemonorops Spp. Or Other Botanical Sources), Dulse (Rhodymenia Palmata (L.) Grev.), Elder Flowers (Sambucus Canadensis L. Or Sambucus Nigra L.), Elemi Gum (Canarium Spp.), Elemi Oil (Canarium Spp.), Erigeron Oil (Erigeron Candensis L.), Erythrobic Acid, Estragole, Estragon Oil (Artemisia Dracunculus L.), P-Ethoxybenzaldehyde, Ethyl Acetate, Ethyl Acetoacetate, Ethyl 2-Acetyl-3-Phenylpropionate, Ethyl Aconitate (Mixed Esters), Ethyl Acrylate, Ethyl Alcohol, Ethyl P-Anisate, Ethyl Anthranilate, Ethyl Benzoate, Ethyl Benzoylacetate, Alpha-Ethylbenzyl Butyrate, 2-Ethylbutyl Acetate, 2-Ethylbutyraldehyde, Ethyl Butyrate, Ethyl Isobutyrate, 2-Ethylbutyric Acid, Ethyl Cinnamate, Ethyl Cyclohexanepropionate, Ethyl Decanoate, Ethyl Formate, Ethyl 3(2-Furyl)Propanoate, 4-Ethylguaiacol, Ethyl Heptanoate, 2-Ethyl-2-Heptenal, Ethyl Hexanoate, Ethyl Lactate, Ethyl Laurate, Ethyl Levulinate, Ethyl 2-Methylbutyrate, Ethyl Methylphenylglycidate, Ethyl Myristate, Ethyl Nitrite, Ethyl Nonanoate, Ethyl 2-Nonynoate, Ethyl Octanoate, Ethyl Oleate, Ethyl Palmitate, Ethyl Phenylacetate, Ethyl 4-Phenylbutyrate, Ethyl 3-Phenylglycidate, Ethyl 3-Phenylpropionate, Ethyl Propionate, Ethyl Pyruvate, Ethyl Salicylate, Ethyl Sorbate, Ethyl Tiglate, Ethyl 10-Undecenoate, Ethyl Valerate, Ethyl Isovalerate, Ethyl Vanillin, Eucalyptol, Eucalyptus Oil (Eucalyptus Globulus Labille), Eugenol, Isoeugenol, Eugenyl Acetate, Isoeugenyl Acetate, Eugenyl Benzoate, Isoeugenyl Ethyl Ether, Eugenyl Formate, Isoeugenyl Formate, Eugenyl Methyl Ether, Isoeugenyl Methyl Ether, Isoeugenyl Phenylacetate, Farnesol, D-Fenchone, Fenchyl Alcohol, Fennel, Common(Foeniculum Vulgare Mill.), Fennel, Sweet (Foeniculum Vulgare Mill. Var Dulce (D.C.), Fennel Oil, Sweet (Foeniculum Vulgare Mill. Var. Dulce Dc.), Fenugreek (Trigonella Foenum-Graecum L.), Fenugreek Extract (Trigonella Foenum-Graecum L.), Fenugreek Oleoresin (Trigonella Foenumgraecum L.), Formic Acid, Fumaric Acid, Furfural, Furfuryl Acetate, Furfuryl Alcohol, 2-Furfurylidene Butyraldehyde, Furfuryl Mercaptan, 3-(2-Furyl)Acrolein, 4-(2-Furyl)-3-Buten-2-One, (2-Furyl)-2-Propanone, Fusel Oil, Refined, Galangal Root (Alpinia Spp.), Galangal Root Extract (Alpinia Spp.), Galangal Root Oil (Alpinia Spp.), Galbanum Oil (Ferula Spp.), Galbanum Resin (Ferula Spp.), Garlic Oil (Allium Sativum L.), Genet Absolute (Spartium Junceum L.), Genet Extract (Spartium Junceum L.), Gentian Root Extract (Gentiana Lutea L.),

Geraniol, Elemi Gum (Canarium Spp.), Elemi Oil (Canarium Spp.), Erigeron Oil (Erigeron Candensis L.), Erythrobic Acid, Estragole, Estragon Oil (Artemisia Dracunculus L.), P-Ethoxybenzaldehyde, Ethyl Acetate, Ethyl Acetoacetate, Ethyl 2-Acetyl-3-Phenylpropionate, Ethyl Aconitate (Mixed Esters), Ethyl Acrylate, Ethyl Alcohol, Ethyl P-Anisate, Ethyl Anthranilate, Ethyl Benzoate, Ethyl Benzoylacetate, Alpha-Ethylbenzyl Butyrate, 2-Ethylbutyl Acetate, 2-Ethylbutyraldehyde, Ethyl Butyrate, Ethyl Isobutyrate, 2-Ethylbutyric Acid, Ethyl Cinnamate, Ethyl Cyclohexanepropionate, Ethyl Decanoate, Ethyl Formate, Ethyl 3(2-Furyl)Propanoate, 4-Ethylguaiacol, Ethyl Heptanoate, 2-Ethyl-2-Heptenal, Ethyl Hexanoate, Ethyl Lactate, Ethyl Laurate, Ethyl Levulinate, Ethyl 2-Methylbutyrate, Ethyl Methylphenylglycidate, Ethyl Myristate, Ethyl Nitrite, Ethyl Nonanoate, Ethyl 2-Nonynoate, Ethyl Octanoate, Ethyl Oleate, Ethyl Palmitate, Ethyl Phenylacetate, Ethyl 4-Phenylbutyrate, Ethyl 3-Phenylglycidate, Ethyl 3-Phenylpropionate, Ethyl Propionate, Ethyl Pyruvate, Ethyl Salicylate, Ethyl Sorbate, Ethyl Tiglate, Ethyl 10-Undecenoate, Ethyl Valerate, Ethyl Isovalerate, Ethyl Vanillin, Eucalyptol, Eucalyptus Oil (Eucalyptus Globulus Labille), Eugenol, Isoeugenol, Eugenyl Acetate, Isoeugenyl Acetate, Eugenyl Benzoate, Isoeugenyl Ethyl Ether, Eugenyl Formate, Isoeugenyl Formate, Eugenyl Methyl Ether, Isoeugenyl Methyl Ether, Isoeugenyl Phenylacetate, Farnesol, D-Fenchone, Fenchyl Alcohol, Fennel, Common(Foeniculum Vulgare Mill.), Fennel, Sweet (Foeniculum Vulgare Mill. Var Dulce (D.C.), Fennel Oil, Sweet (Foeniculum Vulgare Mill. Var. Dulce Dc.), Fenugreek (Trigonella Foenum-Graecum L.), Fenugreek Extract (Trigonella Foenum-Graecum L.), Fenugreek Oleoresin (Trigonella Foenumgraecum L.), Formic Acid, Fumaric Acid, Furfural, Furfuryl Acetate, Furfuryl Alcohol, 2-Furfurylidene Butyraldehyde, Furfuryl Mercaptan, 3-(2-Furyl)Acrolein, 4-(2-Furyl)-3-Buten-2-One, (2-Furyl)-2-Propanone, Fusel Oil, Refined, Galangal Root (Alpinia Spp.), Galangal Root Extract (Alpinia Spp.), Galangal Root Oil (Alpinia Spp.), Galbanum Oil (Ferula Spp.), Galbanum Resin (Ferula Spp.), Garlic Oil (Allium Sativum L.), Genet Absolute (Spartium Junceum L.), Genet Extract (Spartium Junceum L.), Gentian Root Extract (Gentiana Lutea L.), Geraniol, Labdanum Absolute (Cistus Spp.), Labdanum Oil (Cistus Spp.), Labdanum Oleoresin (Cistus Spp.), Lactic Acid, Laurel Berries (Laurus Nobilis L.), Laurel Leaves Extract (Laurus Nobilis L.), Lauric Acid, Lauric Aldehyde, Lauryl Acetate, Lauryl Alcohol, Lavandin Oil (Lavandula Hybrida), Lavender (Lavandula Officinalis Chaix), Lavender Absolute (Lavandula

Officinalis Chaix), Lavender Concrete (Lavandula Officinalis Chaix), Lavender Oil (Lavandula Officinalis Chaix), Lemon Extract (Citrus Limon (L.) Burm. F.), Lemongrass Oil, Lemon Oil, Lemon Oil Terpeneless (Citrus Limon (L.) Burm. F.), Levulinic Acid, Licorice Extract (Glycyrrhiza Spp.), Licorice Extract Powder (Glycyrrhiza Glabra L.), Licorice Root (Glycyrrhiza Glabra L.), Lime Oil, Lime Oil, Terpeneless (Citrus Aurantifolia (Christman) Swingle), D-Limonene, Linaloe Wood Oil (Bursera Delpechiana Poiss. And Other Bursera Spp.), Linalool, Linalyl Acetate, Linalyl Anthranilate, Linalyl Benzoate, Linalyl Butyrate, Linalyl Isobutyrate, Linalyl Cinnamate, Linalyl Formate, Linalyl Hexanoate, Linalyl Octanoate, Linalyl Propionate, Linalyl Isovalerate, Linden Flowers (Tilia Glabra Vent.), Locust Gum (Ceratonia Siliqua L.), Lovage (Levisticum Officinale Koch), Lovage Extract (Levisticum Officinale Koch), Lovage Oil (Levisticum Officinale Koch), Mace (Myristica Fragrans Houtt.), Mace Oil (Myristica Fragrans Houtt.), Mace Oleoresin (Myristica Fragrans Houtt.), L-Malic Acid, Maltol, Mandarin Oil, Expressed, Marigold, Pot (Calendula Officinalis L.), Marjoram Oleoresin (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram, Pot (Origanum Vulgare L.), Marjoram Seed (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram, Sweet (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram Oil, Sweet (Origanum Majorana), P-Mentha-1,8-Dien-7-Ol, Menthol Racemic, (+)-Neoisomenthol, Menthone, Menthyl Acetate, Menthyl Isovalerate, P-Methoxybenzaldehyde, 2-Methoxy-4-Methylphenol, 4-(P-Methoxyphenyl)-2-Butanone, 1-(P-Methoxyphenyl)-1-Penten-3-One, 1-(P-Methoxyphenyl)-2-Propanone, 2-Methoxy-4-Vinylphenol, Methyl Acetate, 4'-Methylacetophenone, 2-Methylallyl Butyrate, Methyl Anisate, O-Methylanisole, P-Methylanisole, Methyl Anthranilate, Methyl Benzoate, Alpha-Methylbenzyl Acetate, Alpha-Methylbenzyl Alcohol, Alpha-Methylbenzyl Butyrate, Alpha-Methylbenzyl Isobutyrate, Alpha-Methylbenzyl Formate, Alpha-Methylbenzyl Propionate, Methyl P-Tert-Butylphenylacetate, 2-Methylbutyraldehyde, 3-Methylbutyraldehyde, Methyl Butyrate, Methyl Isobutyrate, 2-Methylbutyric Acid, Methyl Cellulose, Alpha-Methylcinnamaldehyde, Methyl Cinnamate, 6-Methylcoumarin, Methylcyclopentenolone, 4-(3,4-Methylenedioxyphenyl)-2-Butanone, 5-Methylfurfural, Methyl 2-Furoate, 2-Methyl-3(2-Furyl)Acrolein, Methyl Heptanoate, 2-Methylheptanoic Acid, 6-Methyl-5-Hepten-2-One, Methyl Hexanoate, Methyl 2-Hexenoate, Methyl P-Hydroxybenzoate, Methyl-Alpha-Ionone, Methyl-Beta-Ionone, Methyl-Delta-Ionone, Alpha-Iso-Methylionone, Methyl Laurate, Methyl

Mercaptan, Methyl O-Methoxybenzoate, Methyl N-Methylanthranilate, Methyl 2-Methylbutyrate, Methyl 3-Methylthiopropionate, Methyl 4-Methylvalerate, Methyl Myristate, Methyl Beta-Naphthyl Ketone, Methyl Nonanoate, Methyl 2-Nonenoate, Methyl 2-Nonynoate, 2-Methyloctanal, Methyl Octanoate, Methyl 2-Octynoate, 4-Methyl-2,3-Pentanedione, 4-Methyl-2-Pentanone, Beta-Methylphenethyl Alcohol, Methyl Phenylacetate, 3-Methyl-4-Phenyl-3-Butene-2-One, 2-Methyl-4-Phenyl-2-Butyl Acetate, 2-Methyl-4-Phenyl-2-Butyl Isobutyrate, 2-Methyl-4-Phenylbutyraldehyde, 3-Methyl-2-Phenylbutyraldehyde, Methyl 4-Phenylbutyrate, 4-Methyl-1-Phenyl-2-Pentanone, Methyl 3-Phenylpropionate, Methyl Propionate, 2-Methyl-3-(P-Isopropylphenyl)Propionaldehyde, 6-Methylquinoline, Methyl Salicylate, Methyl Sulfide, 3-(Methylthio)Propionaldehyde, 2-Methyl-3-Tolylpropionaldehyde, 2-Methylundecanal, Methyl 9-Undecenoate, Methyl 2-Undecynoate, Methyl Valerate, Methyl Isovalerate, 2-Methylvaleric Acid, Mimosa Absolute (Acacia Decurrens Willd. Var. Dealbata), Monosodium Glutamate, Mountain Maple Extract Solid (Acer Spicatum Lam.), Musk Tonquin (Moschus Moschiferus L.), Mustard, Brown (Brassica Spp.), Mustard, Yellow (Brassica Spp.), Myrcene, Myristaldehyde, Myristic Acid, Myrrh Gum (Commiphora Spp.), Myrrh Oil (Commiphora Spp.), Beta-Naphthyl Anthranilate, Beta-Naphthyl Ethyl Ether, Naringen Extract (Citrus Paradisi Macf.), Nerol, Neroli Bigarde Oil (Citrus Aurantium L.), Nerolidol, Neryl Acetate, Neryl Butyrate, Neryl Isobutyrate, Neryl Formate, Neryl Propionate, Neryl Isovalerate, Nitrous Oxide, 2,6-Nonadien-1-Ol, Gamma-Nonalactone, Nonanal, 1,3-Nonanediol Acetate (Mixed Esters), Nonanoic Acid, 2-Nonanone, Nonanoyl 4-Hydroxy-3-Methoxybenzylamide, Nonyl Acetate, Nonyl Alcohol, Nonyl Octanoate, Nonyl Isovalerate, Nutmeg (Myristica Fragrans Houtt.), Nutmeg Oil, Oak Chips Extract (Quercus Alba L.), Oakmoss Absolute (Evernia Spp.), Gamma-Octalactone, Octanal, Octanal Dimethyl Acetal, Octanoic Acid, 1-Octanol, 2-Octanol, 2-Octanone, 3-Octanone, 3-(Hydroxymethyl)-2-Heptanone, 1-Octen-3-Ol, Octyl Acetate, Octyl Butyrate, Octyl Isobutyrate, Octyl Formate, Octyl Heptanoate, Octyl Octanoate, Octyl Phenylacetate, Octyl Propionate, Octyl Isovalerate, Oleic Acid, Olibanum Oil (Boswellia Spp.), Onion Oil (Allium Cepa L.), Onion Flakes, Onion Powder, onion Extract, Orange Blossoms Absolute, Orange Flowers (Citrus Aurantium L.), Orange Leaf Absolute (Citrus Aurantium L.), Orange Oil Distilled (Citrus Sinensis (L.) Osbeck), Orange Oil Terpeneless (Citrus Sinensis (L.) Osbeck), Orange Peel Oil, Bitter (Citrus Aurantium L.), Orange Peel, Sweet, Extract (Citrus Sinensis L. Osbeck), Orange

Peel Oil, Sweet (Citrus Sinensis (L.) Osbeck), Orange Peel, Sweet, Oil, Terpeneless (Citrus Sinensis L. Osbeck), Oregano (Lippia Spp.), Origanum Oil (Extractive) (Thymus Capitatus L. Hoffmanns & Link), Orris Concrete Liquid Oil (Iris Florentina L.), Orris Root Extract (Iris Florentina L.), Palmarosa Oil (Cymbopogon Martini (Roxb.) Stapf), Palmitic Acid, Paprika (Capsicum Annuum L.), Paprika Oleoresin (Capsicum Annuum L.), Parsley (Petroselinum Crispum (Miller) Nyman-P. Sativum Hoffm.), Parsley Oil, Parsley Oleoresin (Petroselinum Spp.), Parsnip (Pastinaca Sativa), Parsnip, Dehydrated, Parsnip Extract, Patchouly Oil, Pennyroyal Oil (Mentha Pulegium L.), Omega-Pentadecalactone, 2,3-Pentanedione, 2-Pentanone, 4-Pentenoic Acid, Pepper, Black (Piper Nigrum L.), Pepper, Black, Oil (Piper Nigrum L.), Pepper, Black, Oleoresin (Piper Nigrum L.), Pepperment Leaves (Mentha Piperita L.), Peppermint Oil, Pepper (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, Red (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, Green (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, Orange (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, Yellow (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, White (Piper Nigrum L.), Pepper, White, Oil (Piper Nigrum L.), Pepper, White, Oleoresin (Piper Nigrum L.), Petitgrain, Lemon, Oil (Citrus Limon L. Burm. F), Petitgrain Mandarin Oil (Citrus Reticulata Blanco Var. Mandarin), Petitgrain Paraguay Oil, Alpha-Phellandrene, Phenethyl Acetate, Phenethyl Alcohol, Phenylethyl Anthranilate, Phenethyl Benzoate, Phenethyl Butyrate, Phenethyl Isobutyrate, Phenethyl Cinnamate, Phenethyl Formate, Phenethyl 2-Furoate, Phenethyl Phenylacetate, Phenethyl Propionate, Phenethyl Salicylate, Phenethyl Senecioate, Phenethyl Tiglate, Phenethyl Isovalerate, Phenoxyacetic Acid, 2-Phenoxyethyl Isobutyrate, Phenylacetaldehyde, Phenylacetaldehyde 2,3-Butylene Glycol Acetal, Phenylacetaldehyde Dimethyl Acetal, Phenylacetaldehyde Glyceryl Acetal, Phenylacetic Acid, 4-Phenyl-2-Butanol, 4-Phenyl-3-Buten-2-Ol, 4-Phenyl-3-Buten-2-One, 4-Phenyl-2-Butyl Acetate, 1-Phenyl-3-Methyl-3-Pentanol, 1-Phenyl-1-Propanol, 3-Phenyl-1-Propanol, 2-Phenylpropionaldehyde, 3-Phenylpropionaldehyde, 2-Phenylpropionaldehyde Dimethyl Acetal, 3-Phenylpropionic Acid, 3-Phenylpropyl Acetate, 2-Phenylpropyl Butyrate, 2-Phenylpropyl Isobutyrate, 3-Phenylpropyl Isobutyrate, 3-Phenylpropyl Cinnamate, 3-Phenylpropyl Formate, 3-Phenylpropyl Hexanoate, 3-Phenylpropyl Propionate, 2-(3-Phenylpropyl)Tetrahydrofuran, 3-Phenylpropyl Isovalerate, Phosphoric Acid, Pimenta Leaf Oil, Alpha-Pinene, Beta-Pinene, Pine Needle, Dwarf, Oil (Pinus

Mugo Turra Var. Pumilio (Haenke) Zenari), Pine Needle Oil (Abies Spp.), Pine Scotch Oil (Pinus Sylvestris L.), Pine Tar Oil (Pinus Palustris Mill. And Other Pinus Spp.), Piperidine, Piperine, D-Piperitone, Piperonal, Piperonyl Acetate, Piperonyl Isobutyrate, Pipsissewa Leaves Extract (Chimaphila Umbellata Nutt.), Polysorbate 20, Polysorbate 60, Polysorbate 80, Pomegranate Bark Extract (Punica Granatum L.), Poppy Seed (Papaver Somniferum L.), Potassium Acetate, Potassium Sorbate, Propenylguaethol, Propionaldehyde, Propionic Acid, Propyl Acetate, Isopropyl Acetate, P-Isopropylacetophenone, Propyl Alcohol, Isopropyl Alcohol, P-Propylanisole, Propyl Benzoate, Isopropyl Benzoate, P-Isopropylbenzyl Alcohol, Propyl Butyrate, Isopropyl Butyrate, Propyl Isobutyrate, Isopropyl Isobutyrate, Propyl Cinnamate, Isopropyl Cinnamate, Propylene Glycol, Propylene Glycol Alginate, Propylene Glycol Stearate, Propyl Formate, Isopropyl Formate, Propyl 2-Furanacrylate, Propyl 2-Furoate, Propyl Gallate, Propyl Heptanoate, Propyl Hexanoate, Isopropyl Hexanoate, Propyl P-Hydroxybenzoate, 3-Propylidenephthalide, Alpha-Propylphenethyl Alcohol, P-Isopropyl Phenylacetaldehyde, Propyl Phenylacetate, Isopropyl Phenylacetate, 3-(P-Isopropylphenyl)Propionaldehyde, Propyl Propionate, Isopropyl Propionate, Propyl Isovalerate, Isopropyl Isovalerate, Isopulegol, Pulegone, Isopulegone, Isopulegyl Acetate, Pyridine, Pyroligneous Acid, Pyroligneous Acid, Extract, Pyruvaldehyde, Pyruvic Acid, Quassia Extract (Picrasma Excelsa (Sw.) Planch.-Quassia Amara L.), Quebracho Bark Extract, Quillaia (Quillaja Saponaria Molina), Quince Seed Extract (Cydonia Spp.), Quinine Bisulfate, Quinine Hydrochloride, Quinine Sulfate, Isoquinoline, Rhatany Extract (Krameria Spp.), Rhodinol, Rhodinyl Acetate, Rhodinyl Butyrate, Rhodinyl Isobutyrate, Rhodinyl Formate, Rhodinyl Phenylacetate, Rhodinyl Propionate, Rhodinyl Isovalerate, Rose Absolute (Rosa Spp.), Rose Oil (Rosa Damascena Mill.), Rose Hips Extract (Rosa Spp.), Rosemary (Rosemarinus Officinalis L.), Rosemary Oil (Rosemarinus Officinalis L.), Rose Water, Stronger (Rosa Centifolia L.), Rue (Ruta Graveolens L.), Rue Oil (Ruta Graveolens L.), Rum Ether, Saccharine, Sodium Salt, Saffron (Crocus Sativus L.), Saffron Extract (Crocus Sativus L.), Sage (Salvia Officinalis L.), Sage Oil (Salvia Officinalis L.), Sage Oleoresin (Salvia Officinalis L.), Sage Oil, Spanish (Salvia Lavandulaefolia Vahl.), Salicylaldehyde, Sandalwood Yellow Oil (Santalum Album L.), Santalol (Alpha And Beta), Santalyl Acetate, Santalyl Phenylacetate, Sarsaparilla Extract (Smilax Spp.), Sassafras Bark Extract (Safrol-Free) (Sassafras Albidum (Nutt.) Nees), Sassafras Leaves (Safrol-

Free) (Sassafras Albidum (Nutt.) Nees), Savory, Summer (Satureja Hortensis L.), Savory Summer Oil (Satureja Hortensis L.), Savory, Summer, Oleoresin (Satureja Hortensis L.), Savory, Winter (Satureja Montana L.), Savory Winter Oil (Satureja Montana L.), Savory, Winter, Oleoresin (Satureja Montana L.), Schinus Molle Oil (Schinus Molle L.), Skatole, Sloe Berries (Prunus Spinosa L.), Sloe Berries Extract (Prunus Spinosa L.), Sloe Berries Extract Solid (Prunus Spinosa L.), Snakeroot Oil, Canadian (Asarum Canadense L.), Sodium Acetate, Sodium Benzoate, Sodium Citrate, Sodium Hexametaphosphate, Sorbitan Monostearate, D-Sorbitol, Sour Cream, Sour Cream Solids, Spearmint (Mentha Spicata L.), Spearmint Extract (Mentha Spicata L.), Spearmint Oil (Mentha Spicata L.), Spike Lavender Oil (Lavandula Spp.), Spruce Oil (Tsuga And Picea Spp.), Stearic Acid, Storax (Liquidambar Spp.), Styrax Extract(Liquidambar Spp.), Sucrose Octaacetate, Sulfur Dioxide, Tagetes Oil (Tagetes Erecta L.; T. Patula L.; Or T. Glandulifera Schrank), Tangerine Oil (Citrus Reticulata Blanco), Tannic Acid (Quercus Spp.), Tarragon (Artemisia Dracunculus L.), Tartaric Acid (D-, L-, Dl-, Meso-), Alpha-Terpineol, Terpinolene, Terpinyl Acetate (Isomer Mixture), Beta-Terpinyl Anthranilate, Terpinyl Butyrate, Terpinyl Isobutyrate, Terpinyl Cinnamate, Terpinyl Formate, Terpinyl Propionate, Terpinyl Isovalerate, Tetrahydrofurfuryl Acetate, Tetrahydrofurfuryl Alcohol, Tetrahydrofurfuryl Butyrate, Tetrahydrofurfuryl Propionate, 3,4,5,6-Tetrahydropseudoionone, Tetrahydrolinalool, Tetramethyl Ethylcyclohexenone (Mixture Of Isomers), 2-Thienyl Mercaptan, Thyme (Thymus Vulgaris L.), Thyme Oil(Thymus Vulgaris L.), Thyme, White, Oil (Thymus Vulgaris L.), Thymol, Tolualdehyde Glyceryl Acetal (Mixed O-, M-, P-), Tolualdehydes (Mixed O,M,P), Tolu, Balsam, Extract (Myroxylon Spp.), Tolu, Balsam, Gum (Myroxylon Spp.), P-Tolylacetaldehyde, O-Tolyl Acetate, P-Tolyl Acetate, 4-(P-Tolyl)-2-Butanone, P-Tolyl Isobutyrate, P-Tolyl Laurate, P-Tolyl Phenylacetate, P-Tolyl Phenylacetate, 2-(P-Tolyl)Propionaldehyde, Tragacanth Gum (Astragalus Spp.), Tributyl Acetylcitrate, Tricalcium Phosphate, 2-Tridecenal, Triethyl Citrate, Tuberose Oil (Polianthes Tuberosa L.), Turmeric (Curcuma Longa L.), Turmeric Extract (Curcuma Longa L.), Turmeric Oleoresin (Curcuma Longa L.), Turpentine Gum (Pinus Spp.), Turpentine, Steam Distilled (Pinus Spp.), 2,3-Undecadione, Gamma-Undecalactone, Undecanal, 2-Undecanone, 9-Undecenal, 10-Undecenal, 10-Undecen-1-Yl Acetate, Undecyl Alcohol, Valeraldehyde, Valerian Root Extract (Valeriana Officinalis L.), Valerian Root Oil (Valeriana Officinalis L.), Valeric Acid, Isovaleric

Acid, Gamma-Valerolactone, Vanilla (Vanilla Spp.), Vanilla Extract (Vanilla Spp.), Vanilla Oleoresin (Vanilla Spp.), Vanillin, Vanillin Acetate, Veratraldehyde, Violet Leaves Absolute (Viola Odorata L.), Walnut Hull Extract (Juglans Spp.), Wintergreen Extract (Gaultheria Procumbens L.), Wintergreen Oil (Gaultheria Procumbens L.), Wormwood (Artemisia Absinthium L.), Wormwood Extract (Artemisia Absinthium L.), Wormwood Oil (Artemisia Absinthium L.), Yarrow Herb (Achillea Millefolium L.), Yerba Santa Fluid Extract (Eriodictyon Californicum (Hook And Am) Torr, Ylang Ylang Oil (Cananga Odorata Hook. F. And Thomas), Yucca Joshua Tree (Yucca Brevifolia Engelm.), Yucca Mohave Extract (Yucca Spp.), Zedoary (Curcuma Zedoaria (Berg.) Rosc.), Zedoary Bark Extract (Curcuma Zedoaria (Berg.) Rosc.), Zingerone, Acetaldehyde Butyl Phenethyl Acetal, Acetylpyrazine, Allyl Methyl Disulfide, 2-Benzofurancarboxaldehyde, Biphenyl, Butylamine, Sec-Butyl Ethyl Ether, 2-Isobutyl-3-Methoxypyrazine, 2-Isobutyl-3-Methylpyrazine, 2-Isobutylthiazole, 2-Trans,4-Trans-Decadienal, 2,3-Diethylpyrazine, 2,6-Dimethoxyphenol, 3,4-Dimethoxy-1-Vinylbenzene, P-Alpha-Dimethylbenzyl Alcohol, 2,6-Dimethyl-4-Heptanol, 2,6-Dimethyl-10-Methylene-2,6,11-Dodecatrienal, 3,7-Dimethyl-6-Octenoic Acid, 2,4-Dimethyl-2-Pentenoic Acid, P,Alpha-Dimethylstyrene, 2,4-Dimethyl-5-Vinylthiazole, 2,2'-(Dithiodimethylene)-Difuran, 1-Ethyl-2-Acetylpyrrole, Ethyl Trans-2,Cis-4-Decadienoate, 2-Ethyl-3,(5 Or 6)-Dimethylpyrazine, 3-Ethyl-2,6-Dimethylpyrazine, 2-Ethyl-1-Hexanol, 3-Ethyl-2-Hydroxy-2-Cyclopenten-1-One, 5-Ethyl-3-Hydroxy-4-Methyl-2(5h)-Furanone, 2-Ethyl-5-Methylpyrazine, 2-Ethyl-3-Methylpyrazine, P-Ethylphenol, Ethyl (P-Tolyloxy)Acetate, 2-Furanmethanethiol Formate, Furfuryl Methyl Ether, Furfuryl Methyl Sulfide, Furfuryl Isopropyl Sulfide, Furfuryl Thioacetate, 2-Furyl Methyl Ketone, (2e,4e)-Heptadienal, Trans-2-Heptenal, Nootkatone, Delta-Hexalactone, 3,4-Hexanedione, Trans-2-Hexenoic Acid, 3-Hexenoic Acid, Cis-3-Hexen-1-Yl Acetate, Hexyl Isobutyrate, 1-Hydroxy-2-Butanone, 4-Hydroxy-2,5-Dimethyl-3(2h)-Furanone, Gamma-Ionone, P-Menthan-2-One, P-Mentha-8-Thiol-3-One, P-Menth-1-Ene-9-Al, P-Menth-1-En-3-Ol, 2-Mercaptopropionic Acid, O-Methoxycinnamaldehyde, P-Methoxy-Alpha-Methylcinnamaldehyde, 2,5 Or 6-Methoxy-3-Methylpyrazine (Mixture Of Isomers), 1-Methyl-2-Acetylpyrrole, Methylated Silica, 4-Methylbiphenyl, 3-Methylcrotonic Acid, 2-Methyl-3-Furanthiol, 2-Methyl-3-,5 Or 6-(Furfurylthio)Pyrazine (Mixture Of Isomers), 5-Methyl-2,3-Hexanedione, 2-Methylhexanoic Acid, 2-Methyl-5-Methoxythiazole, 1-Methylnaphthalene, 2-

Methyl-2-Pentenal, 2-Methyl-2-Pentenoic Acid, 3-Methyl-2-(2-Pentenyl)-2-Cyclopenten-1-One, Alpha-Methylphenethyl Butyrate, Methyl Phenethyl Ether, 5-Methyl-2-Phenyl-2-Hexenal, 4-Methyl-2-Phenyl-2-Pentenal, Methyl Propyl Disulfide, Methyl 2-Pyrrolyl Ketone, 5-Methylquinoxaline, 4-Methyl-5-Thiazoleethanol, 4-Methyl-5-Thiazoleethanol Acetate, 2-Methylthioacetaldehyde, 1-(Methylthio)-2-Butanone, (Methylthio)Methylpyrazine (Mixture Of Isomers), 5-Methyl-2-Thiophenecarboxaldehyde, O-(Methylthio)-Phenol, 2-Methyl-5-Vinylpyrazine (Re-Gras), 2,4-Nonadienal, 2-Nonenal, Delta-Octalactone, 2-Octenal, Paraffin Wax, 2,4-Pentadienal, 2-Pentenal, Isopentylamine, Phenethylamine, Phenethyl Hexanoate, Phenethyl Octanoate, Phenol, 2-Phenyl-2-Butenal, Phenyl Disulfide, 1-Phenyl-1,2-Propanedione, Propenyl Propyl Disulfide, Propyl Disulfide, Isopropyl Tiglate, Pyrazine Ethanethiol, Pyrazinyl Methyl Sulfide, 2-Pyridinemethanethiol, 4,5,6,7-Tetrahydro-3,6-Dimethylbenzofuran, Tetrahydro-4-Methyl-2-(2-Methylpropen-1-Yl)Pyran, 2,3,5,6-Tetramethylpyrazine, 2,2'-(Thiodimethylene)-Difuran, 4-Thujanol, O-Toluenethiol, Trimethylamine, P-Alpha,Alpha-Trimethylbenzyl Alcohol, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-2-Buten-1-One, 2,3,5-Trimethylpyrazine, Undecanoic Acid, 2-Undecanol, 10-Undecenoic Acid, 2,6-Xylenol, 2-Acetyl-3-Ethylpyrazine, 2-Acetylpyridine, Beta-Alanine, Allyl Methyl Trisulfide, Arabinogalactan, L-Arabinose, Benzothiazole, Bis(2-Methyl-3-Furyl) Disulfide, Bis(2-Methyl-3-Furyl) Tetrasulfide, 2-Sec-Butylcyclohexanone, Cyclopentanethiol, L-Cysteine, 4-Decenal, Diallyl Trisulfide, 4,5-Dihydro-3(2h)Thiophenone, 2,4-Dimethyl-5-Acetylthiazole, 3,4-Dimethyl-1,2-Cyclopentadione, 3,5-Dimethyl-1,2-Cyclopentadione, Spiro(2,4-Dithia-1-Methyl-8-Oxabicyclo(3.3.0)Octane-3,3'-(1'-Oxa-2'-Methyl)-Cyclopentane), 2,3-Dimethylpyrazine, 2,5-Dimethylpyrazine, 2,6-Dimethylpyrazine, 4,5-Dimethylthiazole, Dimethyl Trisulfide, Dipropyl Trisulfide, Disodium Succinate, Ethyl 2,4-Dioxohexanoate, Ethyl 2-Mercaptopropionate, 2-Ethyl(Or Methyl)-(3,5 And 6)-Methoxypyrazine, 2-Ethylpyrazine, Ethyl Thioacetate, Furfuryl 3-Methylbutanoate, N-Furfurylpyrrole, L-Glutamic Acid, Glyceryl Tripropanoate, Glycine, 2-Heptanol, 4-Heptenal, 3-Hexanone, 4-Hydroxybutanoic Acid Lactone, 3-(Hydroxymethyl)-2-Octanone, 4-Hydroxy-3-Pentenoic Acid Lactone, 5-Hydroxyundecanoic Acid Lactone, D,L-Isoleucine, Isopropenylpyrazine, L-Leucine, 3-Mercapto-2-Butanone, 2-Mercaptomethylpyrazine, 3-Mercapto-2-Pentanone, D,L-Methionine, Methoxypyrazine, 2-Methyl-1-Butanethiol, 3-Methyl-2-Butanethiol, 1-Methyl-2,3-Cyclohexadione, 5h-5-Methyl-6,7-

Dihydrocyclopenta(B)Pyrazine, 3-(5-Methyl-2-Furyl)-Butanal, Methyl Propyl Trisulfide, 2-Methylpyrazine, Methyl Thiobutyrate, Methyl 2-Thiofuroate, 3-Methylthiopropyl Isothiocyanate, 4-Methyl-5-Vinylthiazole, 2-Naphthalenthiol, 2-Nonanol, 2-Pentanol, 2-Pentylfuran, 3-Phenyl-4-Pentenal, L-Proline, Tetrahydrofurfuryl Cinnamate, 5,6,7,8-Tetrahydroquinoxaline, Thiamine Hydrochloride, 2-Thienyl Disulfide, 3,5,5-Trimethyl-1-Hexanol, 2,4,5-Trimethylthiazole, Acetone, 2-Acetyl-3,5(And 6)-Dimethylpyrazine, 2-Acetylthiazole, Allyl Thiopropionate, Benzyl Trans-2-Methyl-2-Butenoate, Bisabolene, Butan-3-One-2-Yl Butanoate, 3-Butylidenephthalide, 3-N-Butylphthalide, Di(Butan-3-One-1-Yl) Sulfide, 2,3-Diethyl-5-Methylpyrazine, Difurfuryl Ether, 5,7-Dihydro-2-Methylthieno(3,4-D)Pyrimidine, 3,7-Dimethylocta-2,6-Dienyl 2-Ethylbutanoate, 2-Ethoxythiazole, Ethyl 2-Ethyl-3-Phenylpropanoate, Ethyl 3-Hexenoate, Ethyl 3-Methylthiopropionate, Ethyl Cis-4-Octenoate, 2-Ethylthiophenol, Furfuryl Propionate, Furfuryl Thiopropionate, Heptanoic Acid, 4-Heptenal Diethyl Acetal, 3-Heptyldihydro-5-Methyl-2(3h)-Furanone, 3-Hexanol, 4-Hexene-3-One, Cis-3-Hexenyl Formate, N-Hexyl 2-Butenoate, 6-Hydroxy-3,7-Dimethyloctanoic Acid Lactone, Hydroxynonanoic Acid, Delta-Lactone, 2-Keto-4-Butanethiol, 2-Methoxy-3(5 And 6)-Isopropylpyrazine, 2-Methylbutyl 2-Methylbutyrate, 3-Methyl-2-Cyclohexen-1-One, Methyl 3,7-Dimethyl-6-Octenoate, Methyl Furfuryl Disulfide, 6-Methyl-3,5-Heptadien-2-One, Methyl 3-Hexenoate, 5-Methyl-5-Hexen-2-One, 2-Methyl-5-(Methylthio)Furan, Methyl Cis-4-Octenoate, 4-Methyl-3-Penten-2-One, 2-Methylpropyl 3-Methylbutyrate, 2-(2-Methylpropyl)Pyridine, 3-(2-Methylpropyl)Pyridine, 2-(1-Methylpropyl)Thiazole, 2-Methyltetrahydrofuran-3-One, 3-(Methylthio)Butanal, 4-(Methylthio)-2-Butanone, 4-(Methylthio)-4-Methyl-2-Pentanone, Nona-2-Trans-6-Cis-Dienal, 2,6-Nonadienal Diethyl Acetal, Trans-2-Nonen-1-Ol, 9,12-Octadecadienoic Acid (48%) And 9,12,15-Octadecatrienoic Acid (52%), 3-Oxobutanal Dimethyl Acetal, 1-Penten-3-One, 2-Pentylpyridine, Phenylacetaldehyde Diisobutyl Acetal, Propyl Thioacetate, Pyrrole, P-Tolyl 3-Methylbutyrate, 2-Tridecanone, 2,6,6-Trimethylcyclohexa-1,3-Dienyl Methanal, 1,3,3-Trimethyl-2-Norbornanyl Acetate, 3-Acetyl-2,5-Dimethylfuran, 2-Butyl-2-Butenal, N-Butyl 2-Methylbutyrate, 3-Ethylpyridine, 2-Formyl-6,6-Dimethylbicyclo(3.1.1)Hept-2-Ene, Alpha-Furfuryl Octanoate, Alpha-Furfuryl Pentanoate, Glyceryl Tribenzoate, 2-Hepten-4-One, 3-Hepten-2-One, 2-Heptylfuran, Cis-3-Hexenyl Butyrate, Cis-3-Hexenyl Hexanoate, Capsaicin, 2-Hydroxymethyl-

6,6-Dimethylbicyclo(3.1.1)Hept-2-Enyl Formate, 2-Isopropyl-5-Methyl-2-Hexenal, 2-Methyl-2-Butenal, Methyl Dihydrojasmonate, 5-Methyl-3-Hexen-2-One, Methyl Jasmonate, Methyl Linoleate (48%) Methyl Linolenate (52%) Mixture, Methyl 4-(Methylthio)Butyrate, 2-Methylpentanal, 4-(Methylthio)Butanal, 3-(Methylthio)Propanol, 3-Octen-2-One, 3-Penten-2-One, Pentyl 2-Furyl Ketone, Propylene Glycol Dibenzoate, 1-(2,6,6-Trimethylcyclohexa-1,3-Dienyl)-2-Buten-1-One, 2,6,6-Trimethylcyclohex-2-Ene-1,4-Dione, 2,4-Undecadienal, 2-Undecenal, 3-Acetylpyridine, Cycloheptadeca-9-En-1-One, 1,1-Dimethoxyethane, 2,4-Dimethylbenzaldehyde, Ethyl 3-Hydroxybutyrate, Trans,Trans-2,4-Hexadienal, 4-Hexen-1-Ol, Isobutyl 2-Butenoate, 2-Methoxy-3-(1-Methylpropyl)Pyrazine, 3-Methyl-1-Cyclopentadecanone, 1-Methyl-1-Cyclopenten-3-One, 1-Methyl-3-Methoxy-4-Isopropylbenzene, 3-Methylpentanoic Acid, 3-(Methylthio)-1-Hexanol, Myrtenol, 3-Nonanone, 2,2,4-Trimethyl-1,3-Oxacyclopentane, 2,6,10-Trimethyl-2,6,10-Pentadecatrien-14-One, Valencene, D,L-Valine, Dl-(3-Amino-3-Carboxypropyl)Dimethylsulfonium Chloride, Dehydrodihydroionol, Dehydrodihydroionone, Dicyclohexyl Disulfide, 1,4-Dimethyl-4-Acetyl-1-Cyclohexene, 2,5-Dimethyl-2,5-Dihydroxy-1,4-Dithiane, 2,5-Dimethyl-3-Furanthiol, Dodecyl Isobutyrate, 3-Ethyl-2-Hydroxy-4-Methylcyclopent-2-En-1-One, 5-Ethyl-2-Hydroxy-3-Methylcyclopent-2-En-1-One, N-Ethyl-2-Isopropyl-5-Methylcyclohexane Carboxamide, Ethyl 2-Methyl-3-Pentenoate, Hexyl Phenylacetate, 2-Hydroxy-2-Cyclohexen-1-One, 2-Hydroxy-3,5,5-Trimethyl-2-Cyclohexenone, D,L-Isomenthone, 2-Isopropylphenol, Maltyl Isobutyrate, 4-Methylpentanoic Acid, 2-Methyl-3-Pentenoic Acid, Cis-6-Nonen-1-Ol, 2-Trans-6-Trans-Octadienal, Cis-3-Octen-1-Ol, 2-Phenyl-3-Carbethoxy Furan, Propiophenone, 1,5,5,9-Tetramethyl-13-Oxatricyclo(8.3.0.0(4,9))Tridecane, Thiogeraniol, 2,2,6-Trimethylcyclohexanone, 2,6,6-Trimethyl-1-Cyclohexen-1-Acetaldehyde, Trithioacetone, Bis(2,5-Dimethyl-3-Furyl) Disulfide, 2,3-Butanedithiol, 1-Butanethiol, Candelilla Wax (Wax From Stems And Branches Of Euphorbia Cerifera), O-Cresol, S-(2,5-Dimethyl-3-Furyl)Thio-2-Furoate, 2,5-Dimethyl-3-Thioisovalerylfuran, 2,8-Dithianon-4-En-4-Carboxaldehyde, 1,2-Ethanedithiol, O-(Ethoxymethyl)Phenol, Ethyl Trans-2-Butenoate, Ethyl Maltol, Ethyl 2-Methylpentanoate, Ethyl 2-Methyl-4-Pentenoate, Ethyl Octadecanoate, 2-Ethyl-1,3,3-Trimethyl-2-Norbornanol, Ethyl Undecanoate, Trans-3-Heptenyl Acetate, Trans-3-Heptenyl 2-Methylpropanoate, 1,6-Hexanedithiol, Cis-4-Hexenal, 3-Hexenyl 2-Methylbutanoate, 3-Hexenyl 3-Methylbutanoate, Hexyl 2-Methylbutanoate, Hexyl Isovalerate, Linalyl

Phenylacetate, 2-Mercapto-3-Butanol, 2,3 Or 10-Mercaptopinane, Methyl Benzyl Disulfide, 3-Methylbutyl 2-Methylbutanoate, 2-Methylbutyl 3-Methylbutanoate, 3-Methylbutyl 2-Methylpropanoate, Methyl 3-Hydroxyhexanoate, Alpha-Methyl-Beta-Hydroxypropyl Alpha-Methyl-Beta-Mercaptopropyl Sulfide, 4-Methyl-2-Pentenal, 2-Methyl-4-Pentenoic Acid, 2-Methyltetrahydrothiophen-3-One, 1,9-Nonanedithiol, 1,8-Octanedithiol, 1-Octen-3-One, Trans-2-Octen-1-Yl Acetate, Trans-2-Octen-1-Yl Butanoate, Octyl 2-Furoate, 2-Phenyl-4-Pentenal, 1,2-Propanedithiol, Propanethiol, O-Propylphenol, Pyrrolidine, 3,5,5-Trimethylhexanal, 2,4,5-Trimethyl-Delta-3-Oxazoline, 2-Acetoxy-3-Butanone, 1,2-Butanedithiol, 1,3-Butanedithiol, M-Cresol, Cyclohexanecarboxylic Acid, 3-Decen-2-One, Diallyl Polysulfides, 1,2-Di((1'-Ethoxy)Ethoxy)Propane, 2,3-Dimethylbenzofuran, Dimethyl Disulfide, 2,6-Dimethyl-4-Heptanone, 2,6-Dimethyl-3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, 3,7-Dimethyl-1,3,6-Octatriene, 2,6-Dimethylpyridine, 3,5-Dimethyl-1,2,4-Trithiolane, 6,10-Dimethyl-5,9-Undecadien-2-One, Ethylene Brassylate, Ethyl Cyclohexanecarboxylate, Ethyl 3-Hydroxyhexanoate, 5-Ethyl-2-Methylpyridine, 3-Heptanol, 2-Hydroxyacetophenone, 6-Hydroxydihydrotheaspirane, 3-Hydroxy-2-Pentanone, Isoamyl Acetoacetate, Isojasmone, Isophorone, 5-Isopropyl-2-Methylpyrazine, 2-Isopropyl-4-Methylthiazole, Isopropyl Myristate, P-Mentha-1,8-Dien-7-Al, P-Mentha-1,3-Diene, P-Mentha-1,4-Diene, P-Mentha-1,4(8)-Dien-3-One, P-Mentha-1,8-Dien-7-Yl Acetate, P-Menthan-2-Ol, P-Menth-3-En-1-Ol, P-Menth-8-En-1-Ol, P-Menth-8-En-2-One, 1-P-Menthen-9-Yl Acetate, P-Methoxycinnamaldehyde, Methyl Cyclohexanecarboxylate, 2-Methyl-3,5 Or 6-Ethoxypyrazine, 3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, 4-((2-Methyl-3-Furyl)Thio)-5-Nonanone, 5-Methylhexanoic Acid, Methyl 2-Methyl-3-Furyl Disulfide, 4-Methylnonanoic Acid, 4-Methyloctanoic Acid, Methyl 1-Propenyl Disulfide, 3-Methyl-5-Propyl-2-Cyclohexen-1-One, 2-Methyl-4-Propyl-1,3-Oxathiane, 1,4-Nonanediol Diacetate, Cis-6-Nonenal, 3-Octanol, 1-Octen-3-Yl Acetate, 3-Octyl Acetate, 1-Penten-3-Ol, L-Phenylalanine, 2-Phenyl-3-(2-Furyl)Prop-2-Enal, 2(10)-Pinen-3-Ol, 1,3-Propanedithiol, Resorcinol, Delta-Tetradecalactone, Theobromine, (2,2,3-Trimethylcyclopent-3-En-1-Yl)Acetaldehyde, 1,2,3-Tris((1'-Ethoxy)Ethoxy)Propane, Verbenol, 2,5-Xylenol, 3,4-Xylenol, Benzyl Methyl Sulfide, 2-Methoxy-4-Propylphenol, 2-Methyl-Trans-2-Butenoic Acid, 4-(Methylthio)Butanol, 2-(Methylthio)Methyl-2-Butenal, 3-Octen-2-Ol, 2-Octen-4-One, Octyl 2-Methylbutyrate, 3-Decanol, D-Xylose, Propyl 2-Methyl-3-Furyl Disulfide, 1-Hexen-3-Ol, 2-

Acetyl-5-Methylfuran, Epsilon-Dodecalactone, 2-Propionylthiazole, 1-Octen-3-Yl Butyrate, Epsilon-Decalactone, 2-Propionylpyrrole, Thiazole, Benzenethiol, Benzyl Disulfide, 5-Phenylpentanol, 2-(2-Butyl)-4,5-Dimethyl-3-Thiazoline, 4,5-Dimethyl-2-Ethyl-3-Thiazoline, 4,5-Dimethyl-2-Isobutyl-3-Thiazoline, Delta-1-(2,6,6-Trimethyl-3-Cyclohexen-1-Yl)-2-Buten-1-One, 2-Ethyl-4-Hydroxy-5-Methyl-3(2h)-Furanone, Alpha-Ionol, Beta-Ionol, Dihydro-Beta-Ionone, Dihydro-Beta-Ionol, Dihydro-Alpha-Ionone, 2-Methyl-4-Phenyl-2-Butanol, 4-Methyl-2-Pentyl-1,3-Dioxolan, Cyclohexylmethyl Pyrazine, Phenylethyl 2-Methylbutyrate, 3-Hexenyl Phenylacetate, 4,5-Dimethyl-3-Hydroxy-2,5-Dihydrofuran-2-One, 4-Hydroxy-5-Methyl-3(2h)-Furanone, 2-Methyl-3-Thioacetoxy-4,5-Dihydrofuran, 2-Trans-6-Cis-Dodecadienal, 2-Trans-4-Cis-7-Cis-Tridecatrienal, 2,6,6-Trimethyl-1&2-Cyclohexen-1-Carboxaldehyde, P-Methylcinnamaldehyde, Ethyl Trans-2-Decenoate, Ethyl Trans-4-Decenoate, Ethyl Trans-2-Octenoate, 2-Methylbutyl Acetate, Cis-5-Isopropenyl-Cis-2-Methylcyclopentan-1-Carboxaldehyde, 3-Methyl-2-Butenal, 3-Methyl-2-Buten-1-Ol, Propyl 2,4-Decadienoate, P-Propylphenol, Butyl Salicylate, 6-Acetoxydihydrotheaspirane, 4-(P-Acetoxyphenyl)-2-Butanone, 4-Acetyl-6-T-Butyl-1,1-Dimethylindan, 4-Acetyl-2-Methylpyrimidine, 4-Allyl-2,6-Dimethoxyphenol, L-Aspartic Acid, Campholene Acetate, 1,4-Cineole, Alpha-1-(2,6,6-Trimethyl-2-Cyclohexen-1-Yl)-2-Buten-1-One, 9-Decenoic Acid, Nerol Oxide, Dihydroxyacetophenone, 2,6-Dimethyl-6-Hepten-1-Ol, 2,5-Dimethyl-4-Methoxy-3(2h)-Furanone, 2,2-Dimethyl-5-(1-Methylpropen-1-Yl)Tetrahydrofuran, 2,6-Dimethylthiophenol, Diphenyl Ether, Disodium 5-Guanylate, Disodium 5-Inosinate, Trans,Trans-2,4-Dodecadienal, 4-Ethyl-2,6-Dimethoxyphenol, 2-Ethyl-4,5-Dimethyloxazole, 2-Ethylfuran, Ethyl 3-(Furfurylthio)Propionate, Ethyl Trans-2-Hexenoate, 1-Ethylhexyl Tiglate, Ethyl 3-Mercaptopropionate, Ethyl 2-Methyl-3,4-Pentadienoate, Ethyl 3-Methylpentanoate, 2-Ethyl-4-Methylthiazole, Ethyl 4-(Methylthio)Butyrate, Ethyl Cis-4,7-Octadienoate, Ethyl 3-Oxohexanoate, L-Glutamine, Glyceryl 5-Hydroxydecanoate, Glyceryl 5-Hydroxydodecanoate, Guaiacyl Acetate, Cis-3-Hexenyl Benzoate, Cis-3-Hexenyl Cis-3-Hexenoate, Cis-3-Hexenyl Lactate, Hexyl Benzoate, Hexyl Trans-2-Hexenoate, Hexyl 2-Methyl-3&4-Pentenoate, L-Histidine, Hydroquinone Monoethyl Ether, 5-Hydroxy-2,4-Decadienoic Acid Delta-Lactone, 2-Hydroxy-4-Methylbenzaldehyde, Isoeugenyl Benzyl Ether, Isopropyl 2-Methylbutyrate, 1-P-Menthene-8-Thiol, Methyl 1-Acetoxycyclohexyl Ketone, Methylbenzyl Acetate (Mixed O,M,P),

3-Methyl-2-Butanol, 4-Methyl-2,6-Dimethoxyphenol, 2-Methyl-1,3-Dithiolane, Methyl 2-Hydroxy-4-Methylpentanoate, Methyl 2-Methylpentanoate, Methyl 2-Methylthiobutyrate, Methyl Nicotinate, Methyl 3-Nonenoate, 2-Methyl-2-Octenal, Methyl Trans-2-Octenoate, Methyl 2-Oxo-3-Methylpentanoate, Methyl Sorbate, 7-Methyl-4,4a,5,6-Tetrahydro-2(3h)-Naphthalenone, 4-Methylthiazole, 2-(Methylthiomethyl)-3-Phenylpropenal, 3-Methyl-1,2,4-Trithiane, Beta-Naphthyl Isobutyl Ether, Cis-2-Nonen-1-Ol, Trans,Trans-2,4-Octadienal, Cis-5-Octen-1-Ol, 2-Oxobutyric Acid, 2-Pentadecanone, 2-Pentyl-1-Buten-3-One, D,L-Phenylalanine, 1-Phenyl-3 Or 5-Propylpyrazole, 4-Propenyl-2,6-Dimethoxyphenol, 4-Propyl-2,6-Dimethoxyphenol, L-Rhamnose, 1,2,5,6-Tetrahydrocuminic Acid, Thaumatin, P-Tolyl Octanoate, O-Tolyl Salicylate, 2,2,6-Trimethyl-6-Vinyltetrahydropyran, L-Tyrosine, Vanillyl Alcohol, Vanillylidene Acetone, P-Vinylphenol, Anisyl Phenylacetate, Alpha-Campholenic Alcohol, 5- And 6-Decenoic Acid, 2,5-Diethyltetrahydrofuran, 5-Hydroxy-2-Decenoic Acid Delta-Lactone, 5-Hydroxy-7-Decenoic Acid Delta-Lactone, Linalool Oxide, Massoia Bark Oil (Cryptocarya Massoio), L-Menthyl Lactate, Cis-5-Octenal, Osmanthus Absolute (Osmanthus Fragrans Lour.), 2-(3-Phenylpropyl)Pyridine, Potassium 2-(1'-Ethoxy)Ethoxypropanoate, O-Tolyl Isobutyrate, Vanillin Isobutyrate, Dehydromenthofurolactone, 4-Ethylbenzaldehyde, Ethyl Methyl-P-Tolylglycidate, 5-Hydroxy-8-Undecenoic Acid Delta-Lactone, 5-Isopropenyl-2-Methyl-2-Vinyltetrahydrofuran, 1-(4-Methoxyphenyl)-4-Methyl-1-Penten-3-One, 5-Methyl-2-Hepten-4-One, 3-Methyl-1-Pentanol, 3-Methyl-2-(N-Pentanyl)-2-Cyclopenten-1-One, Mintlactone, Myrtenyl Acetate, 2-Trans-6-Trans-Nonadienal, 3-Oxodecanoic Acid Glyceride, 3-Oxododecanoic Acid Glyceride, 3-Oxohexadecanoic Acid Glyceride, 3-Oxohexanoic Acid Glyceride, 3-Oxooctanoic Acid Glyceride, 3-Oxotetradecanoic Acid Glyceride, Sodium 2-(4-Methoxyphenoxy)Propanoate, Theaspirane, Acetaldehyde Ethyl Cis-3-Hexenyl Acetal, Dihydronootkatone, 1-Ethoxy-3-Methyl-2-Butene, (Z)-3 & (E)-2-Hexenyl Propionate, Hydrogen Sulfide, 1,4-Dodec-6-Enolactone, 2 Or 4-Isobutyl-(4 Or 2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, 2 Or 4-Isopropyl-(4 Or 2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, Jambu Oleoresin, 3-L-Menthoxypropane-1,2-Diol, 4-Methoxy-2-Methyl-2-Butanethiol, Gamma-Methyldecalactone, 2-Methyl-3-Tetrahydrofuranthiol, Methylthio 2-(Acetyloxy)Propionate, 3-(Methylthio)Hexyl Acetate, Methylthio-2-(Propionyloxy)Propionate, Octahydrocoumarin, 2-Pentanethiol, D-Ribose, Sclareolide, 1,3,5-Undecatriene, Vanillyl Butyl Ether, 4-Acetoxy-2,5-

Dimethyl-3(2h)Furanone, 2,4-Dihydroxybenzoic Acid, 1,2-Dimethoxybenzene, 4-Ethyloctanoic Acid, Ethyl Vanillin Beta-D-Glucopyranoside, 5-Hydroxy-2-Dodecenoic Acid Lactone, 4-Hydroxy-3-Methyloctanoic Acid Lactone, 2-Isopropyl-N,2,3-Trimethylbutyramide, L-Menthol Ethylene Glycol Carbonate, L-Menthol 1- And 2-Propylene Glycol Carbonate, L-Menthone 1,2-Glycerol Ketal, D,L-Menthone 1,2-Glycerol Ketal, Cis- And Trans-Menthone-8-Thioacetate, Mono-Menthyl Succinate, Neohesperidin Dihydrochalcone, Sodium 3-Methoxy-4-Hydroxycinnamate, Taurine, Thaumatin B - Recombinant, Vanillyl Ethyl Ether, 3-Acetylmercaptohexyl Acetate, 2-Acetyl-2-Thiazoline, Dl-Alanine, L-Arginine, 1-Buten-1-Yl Methyl Sulfide, Delta-3-Carene, Cycloionone, Daidai Peel Oil, 1-Decen-3-Ol, Diethyl Sulfide, 2,5-Dihydroxy-1,4-Dithiane, Diisopropyl Disulfide, 2,4-Dimethylanisole, 2-(3,7-Dimethyl-2,6-Octadienyl)Cyclopentanone, (E,R)-3,7-Dimethyl-1,5,7-Octatrien-3-Ol, 1,4-Dithiane, Ethyl 2,4,7-Decatrienoate, 2-Ethylhexanethiol, Ethyl 2-(Methyldithio)Propionate, Ethyl 2-(Methylthio)Acetate, Ethyl 3-(Methylthio)Butyrate, Ethyl Vanillin Isobutyrate, Ethyl Vanillin Propylene Glycol Acetal, Alpha-Farnesene, 4-[(2-Furanmethyl)Thio]-2-Pentanone, (Z)-4-Hepten-1-Ol, 1-Hexanethiol, 3-Hydroxy-2-Oxopropionic Acid, Beta-Ionyl Acetate, Alpha-Isomethylionyl Acetate, Litsea Cubeba Oil, L-Lysine, Cis- And Trans-P-1(7),8-Menthadien-2-Yl Acetate, 3-(L-Menthoxy)-2-Methylpropane-1,2-Diol, 3-Mercaptohexanol, 3-Mercaptohexyl Acetate, 3-Mercaptohexyl Butyrate, 3-Mercaptohexyl Hexanoate, 3-Mercapto-3-Methyl-1-Butanol, 3-Mercapto-3-Methylbutyl Formate, 1-Mercapto-2-Propanone, S-Methyl Benzothioate, 3-Methylbutanethiol, Methyl (E)-2-(Z)-4- Decadienoate, Methyl Ethyl Sulfide, Methyl Ethyl Trisulfide, S-Methyl Hexanethioate, 2-(4-Methyl-2-Hydroxyphenyl)Propionic Acid-Gamma-Lactone, S-Methyl 3-Methylbutanethioate, Methyl 3-Methyl-1-Butenyl Disulfide, 2-Methyl-2-(Methyldithio)Propanal, S-Methyl 4-Methylpentanethioate, (E)-7-Methyl-3-Octen-2-One, 3-Methyl-2-Oxobutanoic Acid, 3-Methyl-2-Oxopentanoic Acid, 4-Methyl-2-Oxopentanoic Acid, Methyl Phenyl Disulfide, Methyl Phenyl Sulfide, 2-Methyl-1-Propanethiol, Methylsulfinylmethane, S-Methyl Thioacetate, 3-Methylthiohexanal, Bis-(Methylthio)Methane, Methylthiomethyl Butyrate, Methylthiomethyl Hexanoate, 4-(Methylthio)-2-Oxobutanoic Acid, 1-Methylthio-2-Propanone, 3-(Methylthio)Propyl Acetate, (E)-3-(Z)-6-Nonadien-1-Ol, (Z)(Z)-3,6-Nonadien-1-Ol, 8-Ocimenyl Acetate, (E)-2-Octen-1-Ol, (E)-2-Octen-4-Ol, (E)-2-(2-Octenyl)Cyclopentanone, (Z)-5-Octenyl Propionate, 2-Oxopentanedioic Acid, 2-Oxo-3-

Phenylpropionic Acid, 2-Pentyl Butyrate, Phenylethyl Mercaptan, Prenyl Thioacetate, Prenylthiol, 2-Propanethiol, 1-Pyrroline, Sarcodactylis Oil, Sodium Diacetate, Sodium 3-Mercaptooxopropionate, Tea Tree Oil, 2,3,4-Trimethyl-3-Pentanol, Vanillin 3-(L - Menthoxy)Propane-1,2-Diol Acetal, Vanillin Propylene Glycol Acetal, 2-Aminoacetophenone, Bornyl Butyrate, (E)-2-Butenoic Acid, Cyclohexanone, Cyclopentanone, 2,4-Decadien-1-Ol, 9-Decenal, 2-Decenoic Acid, 4-Decenoic Acid, 2,5-Diethyl-3-Methylpyrazine, 3,5-Diethyl-2-Methylpyrazine, 6,7-Dihydro-2,3-Dimethyl-5h-Cyclopentapyrazine, P-Tert-Butylphenol, 2-Ethyl-6-Methylpyrazine, (E)-2-Heptenoic Acid, 2,4-Hexadienoic Acid, (E,E)-, 2,4-Hexadien-1-Ol, 3-Hexenal, (Z)-2-Hexen-1-Ol, Cis-3-Hexenyl Anthranilate, Trans-2-Hexenyl Butyrate, (E)-2-Hexenyl Formate, 3-Hexenyl 2-Hexenoate, Cis-3-Hexenyl Isobutyrate, Trans-2-Hexenyl Isovalerate, Cis-3-Hexenyl Tiglate, Trans-2-Hexenyl Propionate, Cis-3-Hexenyl Propionate, 3-Hexenyl 2-Oxopropionate, Trans-2-Hexenyl Pentanoate, Cis-3-Hexenyl Valerate, 5-(Cis-3-Hexenyl)Dihydro-5-Methyl-2(3h)Furanone, 4-Isopropyl-2-Cyclohexenone, 2-Isopropylpyrazine, 2-Methyl-3-(1-Oxopropoxy)-4h-Pyran-4-One, Mesquite Wood Extract, 2-Methoxybenzoic Acid, 3-Methoxybenzoic Acid, 4-Methoxybenzoic Acid, 2-Methylcyclohexanone, 3-Methylcyclohexanone, 4-Methylcyclohexanone, 2-Methyl-3-(Methylthio)Furan, Michelia Alba Oil, 2,4-Nonadien-1-Ol, (E,Z)-2,6-Nonadien-1-Ol Acetate, (E,Z)-3,6-Nonadien-1-Ol Acetate, (E)-2-Nonenoic Acid, 3-Nonen-2-One, (E,E)-2,4-Octadien-1-Ol, (E)-2-Octenoic Acid, Phenyl Acetate, 2-Phenylphenol, Phenyl Salicylate, Propylpyrazine, 3,5,5-Trimethylcyclohexanol, 2,3,6-Trimethylphenol, 2-Acetyl-3-Methylpyrazine, 1-Amino-2-Propanol, 3-Decanone, Cis-4-Decenyl Acetate, Diisopropyl Trisulfide, (E) & (Z)-4,8-Dimethyl-3,7-Nonadien-2-One, 2,5-Dimethyl-3-Oxo-(2h)-Fur-4-Yl Butyrate, Cis And Trans-2,5-Dimethyltetrahydrofuran-3-Thiol, Cis And Trans-2,5-Dimethyltetrahydro-3-Furyl Thioacetate, Ethanethioic Acid, S-(2-Methyl-3-Furanyl) Ester, Ethyl 4-(Acetylthio)Butyrate, Ethyl Cis-4-Heptenoate, Ethyl 5-Hexenoate, (+/-)-Ethyl 3-Mercaptobutyrate, Ethyl 5-(Methylthio)Valerate, Furfuryl Propyl Disulfide, (+/-)-Heptan-3-Yl Acetate, (+/-)-Heptan-2-Yl Butyrate, (Z)-3-Hexenyl (E)-2-Butenoate, (E)-2-Hexenyl Hexanoate, 4-Hydroxybenzaldehyde, 2-Hydroxybenzoic Acid, 4-Hydroxybenzoic Acid, 4-Hydroxybenzyl Alcohol, 4-Hydroxy-3-Methoxybenzoic Acid, 3(2)-Hydroxy-5-Methyl-2(3)-Hexanone, Isopentylidene Isopentylamine, Isoprenyl Acetate, D,L-Menthol(+/-)-Propylene Glycol Carbonate, Erythro And Threo-3-Mercapto-2-Methylbutan-1-Ol, 3-Mercapto-2-Methylpentanal,

(+/-)-2-Mercapto-2-Methylpentan-1-Ol, 3-Mercapto-2-Methylpentan-1-Ol (Racemic), 4-Mercapto-4-Methyl-2-Pentanone, (+/-)-2-Methyl-1-Butanol, (+/-)-3-Methyl-Gamma-Decalactone, 2-Methylheptan-3-One, (E)-6-Methyl-3-Hepten-2-One, Methyl 2-Methyl-2-Propenoate, Methyl (Methylthio)Acetate, 2-(Methylthio)Ethanol, 12-Methyltridecanal, L-Monomenthyl Glutarate, (+/-)-Nonan-3-Yl Acetate, (E,E)-3,5-Octadien-2-One, (+/-)-Octan-3-Yl Formate, Paraldehyde, 4-Pentenyl Acetate, 2-Pentyl Acetate, Perilla Leaf Oil, Phenethyl Isothiocyanate, Pyrazine, Sodium 4-Methoxybenzoyloxyacetate, 2,4,6-Triisobutyl-5,6-Dihydro-4h-1,3,5-Dithiazine, 2,4,6-Trimethyldihydro-4h-1,3,5-Dithiazine, 3,7,11-Trimethyl-2,6,10-Dodecatrienal, (+/-)-(2,6,6-Trimethyl-2-Hydroxycyclohexylidene)Acetic Acid Gamma-Lactone, Trithiahexane-2,3,5, 6-Undecanone, Vanillin Erythro And Threo-Butan-2,3-Diol Acetal, Acetaldehyde Diisoamyl Acetal, Amyl Methyl Disulfide, Benzyl Hexanoate, Butyl Ethyl Disulfide, Beta-Cyclodextrin, Diethyl Trisulfide, (+/-)-3,5-Diethyl-1,2,4-Trithiolane, (+/-)-Dihydrofarnesol, Dihydromintlactone, Dihydroxyacetone, 2,5-Dimethyl-3-Furanthiol Acetate, 2,5-Dimethylthiazole, (Z)-4-Dodecenal, 4,5-Epoxy-(E)-2-Decenal, Ethyl 3-Acetoxy-2-Methyl Butyrate, S-Ethyl 2-Acetylamino Ethanethioate, Ethyl Methyl Disulfide, Ethyl Propyl Disulfide, Ethyl Propyl Trisulfide, O-Ethyl S-(2-Furylmethyl)Thiocarbonate, Geranyl Tiglate, Grape Seed Extract, Trans-4-Hexenal, (E)-2-Hexenal Diethyl Acetal, 2-Hexyl-4,5-Dimethyl-1,3-Dioxolane, 4-Hydroxy-3,5,-Dimethoxy Benzaldehyde, 4-Hydroxy-2,3-Dimethyl-2,4-Nonadienoic Acid Gamma Lactone, 4-Hydroxy-4-Methyl-5-Hexenoic Acid Gamma Lactone, 3-Hydroxy-4-Phenylbutan-2-One, P-Menthane-3,8-Diol, L-Menthyl Methylether, Methyl 5-Acetoxyhexanoate, 3-[(2-Methyl-3-Furyl)Thio]-2-Butanone, 3-Methyl-2,4-Nonanedione, (+/-)-2-(5-Methyl-5-Vinyl-Tetrahydrofuran-2-Yl)Propionaldehyde, 9-Octadecenal, 2,3-Octanedione, (+/-)-1-Phenylethylmercaptan, 4-Propenylphenol, 2-Propionylpyrroline, 2-Propionyl-2-Thiazoline, 2-Propylpyridine, (Z)-8-Tetradecenal, Tuberose Lactone, 2-Undecen-1-Ol, (+/-)-1-Acetoxy-1-Ethoxyethane, 4-Acetyl-2,5-Dimethyl-3(2h)-Furanone, 2-Acetyl-3,5-Dimethylfuran, Allyl Crotonate, Allyl Propyl Disulfide, Allyl Valerate, 4-Allylphenol, Allyl Thiohexanoate, O-Anisaldehyde, N-Benzoylanthranilic Acid, Thujyl Alcohol, L-Bornyl Acetate, 2-Butylfuran, Butyl Isothiocyanate, 2-Butyrylfuran, Carvone-5,6-Oxide, Beta-Caryophyllene Oxide, Citronellyl Anthranilate, N-Cyclopropyl-Trans-2-Cis-6-Nonadienamide, Trans-Alpha-Damascone, 2,4,7-Decatrienal, 2-Decylfuran, Dehydronootkatone, Diacetyl Tartaric Acid Esters

Of Mono- And Diglycerides, Diethyl Disulfide, Mixture Of 3,6-Diethyl-1,2,4,5-Tetrathiane And 3,5-Diethyl-1,2,4-Trithiolane, 2,4-Difurfurylfuran, Diisopentyl Thiomalate, Dimercaptomethane, 1,1-Dimethoxy-Trans-2-Hexene, 2,4-Dimethyl-1,3-Dioxolane, 3,5- And 3,6-Dimethyl-2-Isobutylpyrazine, 2,5-Dimethyl-3(2h)-Furanone, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Ol, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Yl Acetate, 2,5-Dimethyl-4-Ethoxy-3(2h)-Furanone, (+/-)-Trans- And Cis-5-(2,2-Dimethylcyclopropyl)-3-Methyl-2-Pentenal, 2,5-Dimethylfuran, Divanillin, (+/-)-2,8-Epithio-Cis-P-Menthane, Epoxyoxophorone, Tomato Lycopene, Tomato Powder, Dehydrated Tomato, Tomato Extract, Tomato Juice, Tomato, Ethane-1,1-Dithiol, Ethyl Cis-3-Hexenoate, N-Ethyl Trans-2-Cis-6-Nonadienamide, Ethyl Furfuryl Ether, Ethyl N-Ethylanthranilate, Ethyl N-Methylanthranilate, (+/-)-4-Ethyloctanal, Eugenyl Isovalerate, Furfuryl 2-Methyl-3-Furyl Disulfide, 1-(2-Furyl)Butan-3-One, Geranic Acid, Geranyl 2-Methylbutyrate, Geranyl Valerate, Glyceryl-Lacto Esters Of Fatty Acids, Hept-Trans-2-En-1-Yl Acetate, Hept-2-En-1-Yl Isovalerate, Trans-2-Trans-4-Heptadien-1-Ol, 2-Heptanethiol, (+/-)-1-Hepten-3-Ol, Cis-And Trans-2-Heptylcyclopropanecarboxylic Acid, 2,4-Hexadienyl Propionate, 2,4-Hexadienyl Acetate, 2,4-Hexadienyl Butyrate, 2,4-Hexadienyl Isobutyrate, 2-Hexenyl Octanoate, Hexyl 3-Mercaptobutanoate, 2-Hexylthiophene, 4-Hydroxy-2-Butenoic Acid Gamma-Lactone, 3-Hydroxy-2-Octanone, 2-(2-Hydroxy-4-Methyl-3-Cyclohexenyl)Propionic Acid Gamma-Lactone, 5-Hydroxy-4-Methylhexanoic Acid Delta-Lactone, 1-(3-Hydroxy-5-Methyl-2-Thienyl)Ethanone, (+/-)-2-Hydroxypiperitone, Beta-Ionone Epoxide, Isoambrettolide, Isobornyl Isobutyrate, Isobornyl 2-Methylbutyrate, N-Isobutyldeca-Trans-2-Trans-4-Dienamide, Isobutyl N-Methylanthranilate, (+/-)-Isobutyl 3-Methylthiobutyrate, Beta-Isomethylionone, Isopropenyl Acetate, Lactylated Fatty Acid Esters Of Glycerol And Propylene Glycol, 2-(L-Menthoxy)Ethanol, Menthyl Pyrrolidone Carboxylate, Menthyl Valerate, 4-Mercapto-2-Pentanone, (+/-)-4-Mercapto-4-Methyl-2-Pentanol, 2-Mercaptoanisole, Methionyl Butyrate, Trans- And Cis-1-Methoxy-1-Decene, (S1)-Methoxy-3-Heptanethiol, 2-Methoxyacetophenone, Methyl Cis-3-Hexenoate, Methyl Cis-5-Octenoate, Methyl 3-(Methylthio)Butanoate, Methyl 3-Mercaptobutanoate, Methyl Isopentyl Disulfide, Methyl N,N-Dimethylanthranilate, Methyl N-Acetylanthranilate, Methyl N-Formylanthranilate, S-Methyl Propanethioate, 2-Methyl-1-Methylthio-2-Butene, 3-Methyl-2(3-Methylbut-2-En-1-Yl)Furan, 3-(5-Methyl-2-Furyl)Prop-2-Enal, 5-Methyl-3(2h)-Furanone, 6-Methyl-5-Hepten-2-Yl Acetate, 2-

Methylbut-2-En-1-Ol, 2-Methylfuran, 4-Methylpent-2-Enoic Acid, 3-(Methylthio)-2-Butanone, 4-(Methylthio)-2-Pentanone, (+/-)-3-(Methylthio)Heptanal, 3-(Methylthio)Methylthiophene, Methylthiomethylmercaptan, Mono- And Diglycerides Of Fatty Acids, Nona-2,4,6-Trienal, 2-Nonenoic Acid Gamma-Lactone, Cis-3-Octenyl Propionate, L-Ornithine Monochlorohydrate/Ornithine, Pent-2-Enyl Hexanoate, 2-Pentanoylfuran, 2-Pentenoic Acid, (+/-)-2-Phenyl-4-Methyl-2-Hexenal, Phthalide, Phytol, Phytyl Acetate, 3-Pinanone, Piperitenone Oxide, L-Piperitone, Polyglycerol Esters Of Fatty Acids, Prenyl Acetate, Prenyl Benzoate, Prenyl Caproate, Prenyl Formate, Prenyl Isobutyrate, Propyl 2-Mercaptopropionate, Propylene Glycol Mono- And Diesters Of Fatty Acids, Tetradec-2-Enal, Thioacetic Acid, Trans- And Cis-2,4,8-Trimethyl-3,7-Nonadien-2-Ol, (+/-)-2,4,8-Trimethyl-7-Nonen-2-Ol, 3,7,11-Trimethyldodeca-2,6,10-Trienyl Acetate, 2,4,6-Trithiaheptane, Tyramine, Verbenone, Vetiverol, Vetiveryl Acetate, Cornmint Oil, Mentha Arvensis L., Heliopsis Longipes Extract, Scotch Spearmint Oil, Mentha Cardiaca L., Natural Hickory Smoke Flavor, Betaine, Adenosine Monophosphate; Monosodium, Or Disodium Adenylate, Isoquercitrin, Enzymatically Modified, Glycerol Ester Of Rosin, Gum Arabic, Hydrogen Octenylbutane Dioate, (-)-Homoeriodictyol, Sodium Salt, Sugar Beet Juice Extract, (+/-)-N,N-Dimethyl Menthyl Succinamide, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl)Oxalamide, N-(Heptan-4-Yl)Benzo[D][1,3]Dioxole-5-Carboxamide, N1-(2,4-Dimethoxybenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl)Oxalamide, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(5-Methylpyridin-2-Yl)Ethyl)Oxalamide, 1,6-Hexalactam, Ethylamine, Propylamine, Isopropylamine, Isobutylamine, Sec-Butylamine, 2-Methylbutylamine, Pentylamine, Hexylamine, 2-Methylpiperidine, Trimethylamine Oxide, Triethylamine, Tripropylamine, N,N-Dimethylphenethylamine, 2-Acetyl-1-Pyrroline, Piperazine, Butyramide, Methyl 10-Undecenoate, N-Gluconyl Ethanolamine, N-Gluconyl Ethanolamine Phosphate, N-Lactoyl Ethanolamine, N-Lactoyl Ethanolamine Phosphate, Ethanethiol, Heptane-1-Thiol, S-Isopropyl 3-Methylbut-2-Enethioate, 3-Methylhexanal, 4-Pentenal, Propyl Propane Thiosulfonate, Alpha -Ionene, Gardenia Gummifera Distillate, Piper Longum Distillate, N-3,7-Dimethyl-2,6-Octadienylcyclopropylcarboxamide, (+/-)-Ethyl 2-Hydroxy-2-Methylbutyrate, (+/-)-Ethyl 2-Hydroxy-3-Methylvalerate, 2-(2-Hydroxyphenyl) Cyclopropanecarboxylic Acid Delta Lactone, 2-Decanone, (+/-)-Trans- And Cis-2-Hexenal Propylene Glycol Acetal, (+/-)-Trans- And Cis-2-

Hexenal Glyceryl Acetal, Trans-2-Hexenyl 2-Methylbutyrate, 2-(4-Methyl-5-Thiazolyl)Ethyl Formate, 2-(4-Methyl-5-Thiazolyl)Ethyl Propionate, 2-(4-Methyl-5-Thiazolyl)Ethyl Butanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Isobutyrate, 2-(4-Methyl-5-Thiazolyl)Ethyl Hexanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Octanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Decanoate, (+/-)-3-(Ethylthio)Butanol, Decalepis Hamiltonii Extract, 2-(Trans-2-Pentenyl)Cyclopentanone, 3,9-Dimethyl-6-(1-Methylethyl)-1,4-Dioxaspiro[4.5]Decan-2-One, Cis- And Trans-2-Isobutyl-4-Methyl-1,3-Dioxolane, Cis- And Trans-2-Isopropyl-4-Methyl-1,3-Dioxolane, 4-Aminobutyric Acid, 3-Mercaptoheptyl Acetate, Ethyl Trans-2-Methyl-2-Pentenoate, Methyl Hexyl Ether, Trans-2-Trans-4-Nonadiene, 1-Octene, Cis- And Trans-Ethyl 2,4-Dimethyl-1,3-Dioxolane-2-Acetate, Citronellyl Trans-2-Methyl-2-Butenoate, 5-Acetyl-2,3-Dihydro-1,4-Thiazine, Bis(1-Mercaptopropyl)Sulfide, 2,5-Dithiahexane, Pseudoionone, Cis- And Trans-L-Mercapto-P-Menthan-3-One, Trans-2-Nonen-4-One, Trans-4-Nonenal, 1,1'-(Tetrahydro-6a-Hydroxy-2,3a,5-Trimethylfuro[2,3-D]-1,3-Dioxole-2,5-Diyl)Bis-Ethanone, Trans-2-Decenol, Cis-2-Pentenol, 2-Methylbutyl 3-Methyl-2-Butenoate, Citric And Fatty Acid Esters Of Glycerol, L-Menthyl (R,S)-3-Hydroxybutyrate, N-[(Ethoxycarbonyl)Methyl)-P-Menthane-3-Carboxamide, N-[2-(3,4-Dimethoxyphenyl)Ethyl]-3,4-Dimethoxycinnamic Acid Amide, Mixture Of Methyl Cyclohexadiene And Methylene Cyclohexene, (+/-)-Cis- And Trans-1,2-Dihydroperillaldehyde, 5,7-Dihydroxy-2-(3-Hydroxy-4-Methoxyphenyl)Chroman-4-One, Phenethyl Decanoate, 3,6-Dimethyl-2,3,3a,4,5,7a-Hexahydrobenzofuran, 2-Methylacetophenone, 1-Ethyl-2-Pyrrolecarboxaldehyde, Cis- And Trans-5-Ethyl-2,5-Dihydro-4-Methyl-2-(1-Methylpropyl)-Thiazole, Cis And Trans-5-Ethyl-4-Methyl-2-(2-Methylpropyl)-Thiazoline, 2-Methyl-3-Furyl Methylthiomethyl Disulfide, Pyrrolidino-[1,2e]-4h-2,4-Dimethyl-1,3,5-Dithiazine, S-Allyl-L-Cysteine, 5-Pentyl-3h-Furan-2-One, 3-Mercapto-3-Methyl-1-Butyl Acetate, (+/-)-3-Mercapto-1-Butyl Acetate, 5-Nonen-Trans-2-One, L-Menthyl Acetoacetate, 4-Octen-3-One, 2,4,6-Trimethylphenol, 4-Hydroxyacetophenone, (+/-)-[R-(E)]-5-Isopropyl-8-Methylnona-6,8-Dien-2-One, 1-Methyl-1h-Pyrrole-2-Carboxaldehyde, 1-Pentanethiol, Pentadecanoic Acid, Tridecanal, Tridecanoic Acid, Hexyl Heptanoate, Dodecyl Propionate, Hexyl Nonanoate, Dodecyl Butyrate, Heptyl Heptanoate, Hexyl Decanoate, Ethyl 4-Methylpentanoate, Ethyl 2-Ethylbutyrate, Ethyl 2-Ethylhexanoate, 5-Methylhexyl Acetate, 4-Methylpentyl Isovalerate, 3,7-Dimethyloctanal, Cis-4-Decenol, Cis-5-Octenoic Acid, 5-Hexenol, 3-Isopropenylpentanedioic Acid, Methyl 4-

Pentenoate, Cis-4-Octenol, 11-Dodecenoic Acid, Trans-3-Hexenol, Trans-4-Octenoic Acid, Isobutyl 10-Undecenoate, Cis-9-Octadecenyl Acetate, Ethyl 4-Pentenoate, Ethyl 3-Octenoate, 3-Octenoic Acid, Cis-9-Octadecenol, Decanal Propyleneglycol Acetal, Acetaldehyde Hexyl Isoamyl Acetal, Dodecanal Dimethyl Acetal, Nonanal Dimethyl Acetal, Heptanal Propyleneglycol Acetal, Hexanal Hexyl Isoamyl Acetal, Hexanal Dihexyl Acetal, Isovaleraldehyde Diethyl Acetal, Valeraldehyde Propyleneglycol Acetal, Nonanal Propyleneglycol Acetal, Undecanal Propyleneglycol Acetal, Valeraldehyde Dibutyl Acetal, Acetaldehyde 1,3-Octanediol Acetal, Hexanal Octane-1,3-Diol Acetal, Isovaleraldehyde Glyceryl Acetal, Acetaldehyde Di-Cis-3-Hexenyl Acetal, 2,6-Dimethyl-5-Heptenal Propyleneglycol Acetal, Octanal Propyleneglycol Acetal, Hexanal Butane-2,3-Diol Acetal, Pecan Shell Flour, Di-(1-Propenyl)-Sulfide (Mixture Of Isomers), 2-Pentylthiophene, 5-Ethyl-2-Methylthiazole, 2,4-Dimethylpyridine, 3-(4-Hydroxyphenyl)-1-(2,4,6-Trihydroxyphenyl)Propan-1-One, (+/-)-Ethyl 3-Hydroxy-2-Methylbutyrate, (+/-)-Ethyl 3-Mercapto-2-Methylbutanoate, (+/-)-Cis- And Trans-2-Methyl-2-(4-Methyl-3-Pentenyl)Cyclopropanecarbaldehyde, Trimethyloxazole, 2,5-Dimethyl-4-Ethyloxazole, 2-Propyl-4,5-Dimethyloxazole, 2-Isobutyl-4,5-Dimethyloxazole, 2-Methyl-4,5-Benzoxazole, 2-Nonanone Propyleneglycol Acetal, 6-Methyl-5-Hepten-2-One Propyleneglycol Acetal, 2-Pentyl 2-Methylpentanoate, 3-Octyl Butyrate, Dimethylbenzyl Carbinyl Crotonate, Dimethylbenzyl Carbinyl Hexanoate, 1,5-Octadien-3-One, 10-Undecen-2-One, 2,4-Dimethyl-4-Nonanol, 8-Nonen-2-One, 8-P-Menthene-1,2-Diol, Caryophyllene Alcohol, D-2,8-P-Menthadien-1-Ol, Cis-3-Nonen-1-Ol, Trans-3-Hexenyl Acetate, 4-(Methylthio)Butyl Isothiocyanate, 6-(Methylthio)Hexyl Isothiocyanate, 5-(Methylthio)Pentyl Isothiocyanate, Amyl Isothiocyanate, 3-Butenyl Isothiocyanate, 2-Butylisothiocyanate, Ethyl Isothiocyanate, 5-Hexenyl Isothiocyanate, Hexyl Isothiocyanate, Isoamyl Isothiocyanate, Isobutyl Isothiocyanate, Isopropyl Isothiocyanate, Methyl Isothiocyanate, 4-Pentenyl Isothiocyanate, Benzyl Isothiocyanate, 2,4-Dimethyl-3-Oxazoline, 3,4-Dihydroxybenzoic Acid, 3-Hydroxybenzoic Acid, (+/-)-Acetaldehyde Ethyl Isopropyl Acetal, (+/-)-6-Methyloctanal, 5-Ethyl-2,3-Dimethylpyrazine, 2-Hydroxy-4-Methoxybenzaldehyde, 3-(Methylthio)Propyl Hexanoate, Sodium Lauryl Sulfate, Beta-Angelicalactone, 7-Decen-4-Olide, 9-Decen-5-Olide, 8-Decen-5-Olide, 6-[5(6)-Decenoyloxy]Decanoic Acid, Ethyl 5-Acetoxyoctanoate, Ethyl 5-Hydroxydecanoate, 9-

Dodecen-5-Olide, Gamma-Octadecalactone, Delta-Octadecalactone, 9-Tetradecen-5-Olide, Orin Lactone, Methyl 3-Hydroxybutyrate, Methyl 3-Acetoxy-2-Methylbutyrate, Ethyl 2-Acetylhexanoate, Ethyl 3-Hydroxyoctanoate, Methyl 3-Acetoxyoctanoate, 5-Oxooctanoic Acid, 5-Oxodecanoic Acid, Ethyl 5-Oxodecanoate, 5-Oxododecanoic Acid, Ethyl 2-Acetyloctanoate, 2-Oxo-3-Ethyl-4-Butanolide, 3-Isopropenyl-6-Oxoheptanoic Acid, Hydroxyacetone, 1-Hydroxy-4-Methyl-2-Pentanone, Propyleneglycol Diacetate, Propyleneglycol Dipropionate, Propyleneglycol Dibutyrate, Propyleneglycol Mono-2-Methylbutyrate, Propyleneglycol Di-2-Methylbutyrate, Propyleneglycol Monohexanoate, Propyleneglycol Dihexanoate, Propyleneglycol Dioctanoate, Dimethyl Adipate, Dipropyl Adipate, Diisopropyl Adipate, Diisobutyl Adipate, Dioctyl Adipate, Ethyl Acetoacetate Ethyleneglycol Ketal, Methyl Levulinate, Ethyl Levulinate Propyleneglycol Ketal, Propyl Levulinate, Isoamyl Levulinate, Dodecyl Lactate, Hexadecyl Lactate, Propyl Pyruvate, Hydroxycitronellal Propyleneglycol Acetal, Citral Glyceryl Acetal, Mushroom Oil, Distilled, Propyleneglycol Monobutyrate, Cis-3-Hexenyl Acetoacetate, 2-Methoxy-6-(2-Propenyl)Phenol, Myricitrin, (R)-(-)-1-Octen-3-Ol, Cis-3-Hexenoic Acid, Ammonia (Also Includes Ammonium Chloride), Naringin Dihydrochalcone, N-P-Benzeneacetonitrilementhanecarboxamide, Cubebol, 6-Methylheptanal, (+/-)-Cis- And Trans-2-Pentyl-4-Propyl-1,3-Oxathiane, Choline Chloride (Also Includes Choline), 3-[(2-Methyl-3-Furyl)Thio]Butanal, (-)-Sclareol, (+)-Cedrol, D-Limonen-10-Ol, (2,4)- And (3,5)- And (3,6)-Dimethyl-3-Cyclohexenylcarbaldehyde, 1,3-P-Menthadien-7-Al, P-Menthan-7-Ol, P-Menth-1-En-9-Ol, Menthyl Formate, Menthyl Propionate, Cyclotene Propionate, 3,3,5-Trimethylcyclohexyl Acetate, Dl-Camphor, 2-Cyclopentylcyclopentanone, Carvyl Palmitate, Cyclohexanone Diethyl Ketal, 2-Cyclohexenone, 8,9-Dehydrotheaspirone, L-Fenchone, Ethylenediaminetetraacetic Acid Disodium Salt, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-Ol, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-One, 6-Hydroxycarvone, L-Menthyl Butyrate, Pinocarvyl Isobutyrate, 2-Pentenyl-4-Propyl-1,3-Oxathiane (Mixture Of Isomers), Acetaldehyde Di-Isobutylacetal, Acetaldehyde Ethyl Isobutyl Acetal, 4-(2,2,3-Trimethylcyclopentyl)Butanoic Acid, Perillaldehyde Propyleneglycol Acetal, 2,6,6-Trimethyl-2-Hydroxycyclohexanone, Acetoin Propyleneglycol Ketal, 4,5-Octanedione, Ethyl Maltol Isobutyrate, 2-Tetrahydrofurfuryl 2-Mercaptopropionate, Nerolidol Oxide, Furfural Propyleneglycol Acetal, Methyl 3-(Furfurylthio)Propionate, Furfuryl Decanoate, Di-2-

Furylmethane, (E)-Ethyl 3-(2-Furyl)Acrylate, Furfuryl Formate, 2-Methylbenzofuran, 5-Methylfurfuryl Alcohol, 2-Methyl-3-Furyl 2-Methyl-3-Tetrahydrofuryl Disulfide, Ethyl 2,5-Dimethyl-3-Oxo-4(2h)-Furyl Carbonate, Acai Berry Extract, 4-(2-Propenyl)Phenyl-Beta-D-Glucopyranoside, N-(2-(Pyridin-2-Yl)Ethyl)-3-P-Menthanecarboxamide, (+/-)-N-Lactoyl Tyramine, Cis,Cis-3,6-Nonadienyl Acetate, Trans-2-Nonenyl Acetate, Cis-3-Nonenyl Acetate, Cis-6-Nonenyl Acetate, Dihydrogalangal Acetate, 2,3,3-Trimethylindanone, N-Ethyl-2,2-Diisopropylbutanamide, Cyclopropanecarboxylic Acid (2-Isopropyl-5-Methylcyclohexyl)Amide, Magnolol, 2-(Methylthio)Ethyl Acetate, 3-(Methylthio)Propyl Mercaptoacetate, Ethyl 2-Hydroxyethyl Sulfide, Ethyl 3-(Methylthio)-Cis-2-Propenoate, Ethyl 3-(Methylthio)-Trans-2-Propenoate, Ethyl 3-(Methylthio)-2-Propenoate, 4-Methyl-2-(Methylthiomethyl)-2-Hexenal, 5-Methyl-2-(Methylthiomethyl)-2-Hexenal, 4-Methyl-2-(Methylthiomethyl)-2-Pentenal, 1-(3-(Methylthio)-Butyryl)-2,6,6-Trimethylcyclohexene, 2-Oxothiolane, Butyl Beta-(Methylthio)Acrylate, Ethyl 3-(Ethylthio)Butyrate, Methyl Octyl Sulfide, Methyl 1-Propenyl Sulfide, Diisoamyl Disulfide, Bis(2-Methylphenyl) Disulfide, Mixture Of Butyl Propyl Disulfide And Propyl And Butyl Disulfide, Di-Sec-Butyl Disulfide, Methyl 2-Methylphenyl Disulfide, Diisoamyl Trisulfide, Dodecanethiol, 2-Hydroxyethanethiol, 4-Mercapto-4-Methyl-2-Hexanone, 3-Mercapto-3-Methylbutyl Isovalerate, 3-Mercaptohexanal, Methyl Isobutanethioate, 3-Mercaptopropionic Acid, 2-Ethylhexyl 3-Mercaptopropionate, Butanal Dibenzyl Thioacetal, Methional Diethyl Acetal, Ethyl Linalyl Ether, Myrcenyl Methyl Ether, Linalool Oxide Pyranoid, 2-Hydroxy-5-Methylacetophenone, 2-Phenylpropanal Propyleneglycol Acetal, Cinnamaldehyde Propyleneglycol Acetal, Ethyl Alpha-Acetylcinnamate, Ethyl 2-Hydroxy-3-Phenylpropionate, 3-(3,4-Methylenedioxyphenyl)-2-Methylpropanal, Trehalose, Dihydrate, Rebaudioside A, N-(2-Hydroxyethyl)-2,3-Dimethyl-2-Isopropylbutanamide, N-(1,1-Dimethyl-2-Hydroxyethyl)-2,2-Diethylbutanamide, Dimenthyl Glutarate, Trans-3-Nonen-1-Ol, 4-Formyl-2-Methoxyphenyl 2-Hydroxypropanoate, Guaiacol Butyrate, Guaiacol Isobutyrate, Guaiacol Propionate, Ethyl 5-Hydroxyoctanoate, Isopropylideneglyceryl 5-Hydroxydecanoate, 2-Ethyl-2-Hexenal, Ethyl 2-Hexenoate, Propyl Sorbate, Cis-2-Octenol, 2-Hexylidenehexanal, Trans-2-Tridecenol, 2-Phenoxyethyl Propionate, Propyl 4-Tert-Butylphenylacetate, 2-Phenoxyethanol, Phenyl Butyrate, Piperonal Propyleneglycol Acetal, Benzyl Levulinate, 4-Methylbenzyl Alcohol, Phenylacetaldehyde Diethyl Acetal, Benzyl Nonanoate, Anisaldehyde Propyleneglycol Acetal,

4-Methylbenzaldehyde Propyleneglycol Acetal, Phenylacetaldehyde Propyleneglycol Acetal, 2-Ethylhexyl Benzoate, 2-Ethyl-3-Methylthiopyrazine, 2-Ethoxy-3-Isopropylpyrazine, 2-Ethoxy-3-Ethylpyrazine, Butyl Beta-Naphthyl Ether, Isoamyl Phenethyl Ether, 2-Acetyl-4-Isopropenylpyridine, 4-Acetyl-2-Isopropenylpyridine, 2-Acetyl-4-Isopropylpyridine, 2-Methoxypyridine, 6-Methoxyquinoline, 2-Pentylthiazole, 2-Thienylmethanol, 2-Acetyl-5-Methylthiophene, 4-Methyl-3-Thiazoline, 3,4-Dimethylthiophene, 1-(2-Thienyl)Ethanethiol, 4,5-Dimethyl-2-Isobutylthiazole, Cyclotene Butyrate, 3-(Methylthio)Propylamine, 4-Methyl-Cis-2-Pentene, 1-Nonene, 1,3,5,7-Undecatetraene, Ethyl Alpha-Ethyl-Beta-Methyl-Beta-Phenylglycidate, Methyl Beta-Phenylglycidate, D-8-P-Menthene-1,2-Epoxide, L-8-P-Menthene-1,2-Epoxide, 2,3-Epoxyoctanal, 2,3-Epoxyheptanal, 2,3-Epoxydecanal, Hydroxy(4-Hydroxy-3-Methoxyphenyl)Acetic Acid, 4-Hydroxy-4-(3-Hydroxy-1-Butenyl)-3,5,5-Trimethyl-2-Cyclohexen-1-One, (+/-)-2,6,10,10-Tetramethyl-1-Oxaspiro[4,5]Deca-2,6-Dien-8-One, 4-(2-Butenylidene)-3,5,5-Trimethylcyclohex-2-En-1-One, Digeranyl Ether, 1-(4-Hydroxy-3-Methoxyphenyl)Decan-3-One, Alpha-Bisabolol, 2(4)-Ethyl-4(2),6-Dimethyldihydro-1,3,5-Dithiazine (Mixture Of Isomers), (2e,6e/Z,8e)-N-(2-Methylpropyl)-2,6,8-Decatrienamide, 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-2(1h)One And 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-2(1h)One Hydrochloride, 1,1-Propanedithiol, Z-5-Octenyl Acetate, (E)-4-Undecenal, Delta-Hexadecalactone, Trilobatin, L-Isoleucine, 1-(2-Furfurylthio)-Propanone, (+/-)-4-Methyl-2-Propyl-1,3-Oxathiane, N-(2-Methylcyclohexyl)-2,3,4,5,6-Pentafluorobenzamide, Arachidonic Acid Enriched Oil, 5-Isopropyl-2,6-Diethyl-2-Methyltetrahydro-2h-Pyran, (1r,2s,5r)-N-(4-Methoxyphenyl)-5-Methyl-2-(1-Methylethyl)Cyclohexanecarboxamide, Octahydro-4,8a-Dimethyl-4a(2h)-Naphthol, 2-Methyl-4,5-Dihydrofuran-3-Thiol, (2s,5r)-N-[4-(2-Amino-2-Oxoethyl)Phenyl]-5-Methyl-2-(Propan-2-Yl)Cyclohexanecarboxamide, (+/-)-6-Octyltetrahydro-2h-Pyran-2-One, (+/-)-2-Methyltetrahydrofuran-3-Thiol Acetate, (+/-)-3-Hydroxy-3-Methyl-2,4-Nonanedione, 1,1-Dipropoxyethane, Chrysanthemum Extract, Honeysuckle Extract, Yuzunone, L-Methionylglycine, N-Cyclopropyl-5-Methyl-2-Isopropylcyclohexanecarboxamide, 3-Pentanethiol, 2-Ethyl-2,5-Dihydro-4-Methylthiazole, 1-(Methyldithio)-2-Propanone, 5-Methylfurfurylmercaptan, 4-Mercapto-3-Methyl-2-Butanol, Ferrous L-Lactate, O-Trans-Coumaric Acid, 3-[(4-Amino-2,2-Dioxido-1h-2,1,3-Benzothiadiazin-5-Yl)Oxy]-2,2-Dimethyl-N-Propylpropanamide, 2(3),5-Dimethyl-6,7-Dihydro-

5h-Cyclopentapyrazine, Cinnamyl Benzoate, Beta-Naphthyl Methyl Ether, Rosemary Oleoresin, 9-Decen-2-One, 1-(Methylthio)-3-Octanone, 3',7-Dihydroxy-4'-Methoxyflavan, Glutamyl-Valyl-Glycine, L-Threonine, Luo Han Fruit Concentrate, L-Alanyl-L-Glutamine, Sucrose Monopalmitate, Ethyl 2-Mercapto-2-Methylpropionate, 2-(3,4-Dihydroxyphenyl)-5,7-Dihydroxy-4-Chromanon, N-[N-[3-(3-Hydroxy-4-Methoxyphenyl)Propyl]-L-Alpha-Aspartyl]-L-Phenylalanine 1-Methylester, Monohydrate, Sweet Blackberry Leaves Extract, 2-[(2-(P-Menthyloxy)Ethoxy]Ethanol, Succinic Acid, Rebaudioside C, 1-(2-Hydroxyphenyl)-3-(Pyridin-4-Yl)Propan-1-One, 1-(2-Hydroxy-4-Isobutoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, 1-(2-Hydroxy-4-Methoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, Trans-4-Tert-Butylcyclohexanol, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3-Hydroxybenzyl)Imidazolidine-2,4-Dione, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3-Hydroxybenzyl)-5,5-Dimethylimidazolidine-2,4-Dione, Clover Herb Distillate, Glucosyl Steviol Glycosides, Dl-Isomenthol, O-Ethyl S-1-Methoxyhexan-3-Yl Carbonothioate, Cassyrane, 1,5-Octadien-3-Ol, (+/-)-2-Mercaptoheptan-4-Ol, 3-(Methylthio)Decanal, (4z,7z)-Trideca-4,7-Dienal, Persicaria Odorata Oil, Amacha Leaves Extract, Glutamyl-2-Aminobutyric Acid, Glutamyl-Norvalyl-Glycine, Glutamyl-Norvaline, N1-(2,3-Dimethoxybenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl) Oxalamide, 1-(2-Hydroxy-4-Methylcyclohexyl)Ethanone, Mexican Lime Oil, Expressed, Persian Lime Oil, Expressed, (+/-)-6-Methoxy-2,6-Dimethylheptanal, 3,5-Undecadien-2-One, (+/-)-2,5-Undecadien-1-Ol, Triethylthialdine, 4-Methylpentyl 4-Methylvalerate, Cis-3-Hexenyl Salicylate, (R)-N-(1-Methoxy-4-Methylpentan-2-Yl)-3,4-Dimethylbenzamide, N-Acetyl Glutamate, 1,3-Propanediol, Szechuan Pepper Extract, Tasmannia Lanceolata Extract, Mentha Longifolia Oil, Mangosteen Distillate, Ethyl 3-(2-Hydroxyphenyl)Propanoate, 1-Cyclopropanemethyl-4-Methoxybenzene, Prenyl Thioisobutyrate, Prenyl Thioisovalerate, (-)-Matairesinol, Stevioside, 1-(2,4-Dihydroxyphenyl)-3-(3-Hydroxy-4-Methoxyphenyl)Propan-1-One, Ethyl 5-Formyloxydecanoate, 3-[3-(2-Isopropyl-5-Methyl-Cyclohexyl)Ureido]Butyric Acid Ethyl Ester, 2-Isopropyl-4-Methyl-3-Thiazoline, 2,6,10-Trimethyl-9-Undecenal, 5-Mercapto-5-Methyl-3-Hexanone, Meyer Lemon Oil, Cold Pressed, Citrus X Meyeri, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 60%, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 80%, (E)-N-[2-(1,3-Benzodioxol-5-Yl)Ethyl]-3-(3,4-Dimethoxyphenyl)Prop-2-Enamide, 4-Amino-5-(3-(Isopropylamino)-2,2-Dimethyl-3-Oxopropoxy)-2-Methylquinoline-3-Carboxylic

Acid, 3-Methyl-5-(2,2,3-Trimethylcyclopent-3-En-1-Yl)Pent-4-En-2-Ol, (1-Methyl-2-(1,2,2-Trimethylbicyclo[3.1.0]Hex-3-Ylmethyl)Cyclopropyl)Methanol, Erospicata Oil, Mentha Spicata, Curly Mint Oil, Mentha Spicata Var. Crispa, (+/-)-2-Mercapto-5-Methylheptan-4-One, Caryophylla-3(4),8-Dien-5-Ol, L-Cysteine Methyl Ester Hydrochloride, 2(3)-Hexanethiol, Mixture Of 1-Vinyl-3-Cyclohexenecarbaldehyde And 4-Vinyl-1-Cyclohexenecarbaldehyde, (+/-)-4-Hydroxy-6-Methyl-2-Heptanone, 2-Octyl-2-Dodecenal, 2-Hexyl-2-Decenal, Trans-6-Octenal, (E)-3-Benzo[1,3]Dioxol-5-Yl-N,N-Diphenyl-2-Propenamide, 2,6-Dimethyl-5-Heptenol, (+/-)-Bicyclo[2.2.1]Hept-5-Ene-2-Carboxylic Acid, Ethyl Ester, 3-(Acetylthio)Hexanal, (+/-)-3-Mercapto-1-Pentanol, (3r,3s)-3-[[(4-Amino-2,2-Dioxido-1h-2,1,3-Benzothiadiazin-5-Yl)Oxy]Methyl]-N-Cyclopentyl-2-Oxo-3-Piperidinecarboxamide, (+/-)-1-Cyclohexylethanol, (+/-)-8-Methyldecanal, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside C 30%, (+/-)-Naringenin, 2-(((3-(2,3-Dimethoxyphenyl)-1h-1,2,4-Triazol-5-Yl)Thio)Methyl)Pyridine, (2r)-3',5-Dihydroxy-4'-Methoxyflavanone, Glucosylated Rubus Suavissimus Extract, 20-30% Glucosylated Rubusoside Glycosides, Olive Fruit Extract, (S)-1-(3-(((4-Amino-2,2-Dioxido-1h-Benzo[C][1,2,6]Thiadiazin-5-Yl)Oxy)Methyl)Piperidin-1-Yl)-3-Methylbutan-1-One, 8-Methylnonanal, Mixture Of Ricinoleic Acid, Linoleic Acid, And Oleic Acid, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 22%, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside C 22%, Pinocarvyl Acetate, N-Ethyl-5-Methyl-2-(1-Methylethenyl)Cyclohexanecarboxamide, 2-(4-Methylphenoxy)-N-(1h-Pyrazol-3-Yl)-N-(Thiophen-2-Ylmethyl)Acetamide, Ethyl-2-(4-Hydroxy-3-Methoxy-Phenyl)Acetate, Ginger Mint Oil (Mentha X Gracilis), Palmitoylated Green Tea Extract Catechins, 2-(5-Isopropyl-2-Methyltetrahydrothiophen-2-Yl)Ethanol, Glucosylated Rubus Suavissimus Extract, 60% Glucosylated Rubusoside Glycosides, Sandalwood Austrocaledonicum Oil, and Sugar Cane Distillate.

[0189] In various embodiments, the ingestibly acceptable ingredient may include one or more of sweetness enhancers, sweetening agents, umami flavor enhancers, umami flavoring agents, sour flavoring agents, and cooling agents.

[0190] In some embodiments, the ingestible composition further comprises an additional sweetener such as a sweetener described in detail below. In some embodiments, the sweetener is present in an amount from about 0.1% to about 12% by weight. In some

embodiments, the sweetener is present in an amount from about 0.2% to about 10% by weight. In some embodiments, the sweetener is present in an amount from about 0.3% to about 8% by weight. In some embodiments, the sweetener is present in an amount from about 0.4% to about 6% by weight. In some embodiments, the sweetener is present in an amount from about 0.5% to about 5% by weight. In some embodiments, the sweetener is present in an amount from about 1% to about 2% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 5% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 4% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 3% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 2% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 1% by weight. In some embodiments, the sweetener is present in an amount from about 0.1% to about 0.5% by weight. In some embodiments, the sweetener is present in an amount from about 0.5% to about 10% by weight. In some embodiments, the sweetener is present in an amount from about 2% to about 8% by weight.

[0191] In some embodiments, the compound of Formula (I) and the additional sweetener are present in a ratio of about 1:100,000 to 100,000:1, or any ratio in between. In some embodiments, the compound of Formula (I) and the sweetener are present in a ratio of about 1:90,000, about 1:80,000, about 1:70,000, about 1:60,000, about 1:50,000, about 1:40,000, about 1:30,000, about 1:20,000, about 1:10,000, 1:9,000, about 1:8,000, about 1:7,000, about 1:6,000, about 1:5,000, about 1:4,000, about 1:3,000, about 1:2,000, about 1:1,000, about 1:900, about 1:800, about 1:700, about 1:600, about 1:500, about 1:450, about 1:400, about 1:350, about 1:300, about 1:250, about 1:200, about 1:150, about 1:100, about 1:90, about 1:85, about 1:80, about 1:75, about 1:70, about 1:65, about 1:60, about 1:55, about 1:50, about 1:45, about 1:40, about 1:35, about 1:30, about 1:25, about 1:20, about 1:19, about 1:18, about 1:17, about 1:16, about 1:15, about 1:14, about 1:13, about 1:12, about 1:11, about 1:10, about 1:9, about 1:8, about 1:7, about 1:6, about 1:5, about 1:4, about 1:3, about 1:2, about 1:1, about 2:1, about 3:1, about 4:1, about 5:1, about 6:1, about 7:1, about 8:1, about 9:1, about 10:1, about 11:1, about 12:1, about 13:1, about 14:1, about 15:1, about 16:1, about 17:1, about 18:1, about 19:1, about 20:1, about 25:1, about 30:1, about 35:1, about 40:1, about 45:1, about 50:1, about 55:1, about

60:1, about 65:1, about 70:1, about 75:1, about 80:1, about 85:1, about 90:1, about 95:1, about 100:1, about 150:1, about 200:1, about 250:1, about 300:1, about 350:1, about 400:1, about 450:1, about 500:1, about 600:1, about 700:1, about 800:1, about 900:1, about 1,000:1, about 1,000:1, about 2,000:1, about 3,000:1, about 4,000:1, about 5,000:1, about 6,000:1, about 7,000:1, about 8000:1, about 9,000:1, about 10,000:1, about 20,000:1, about 30,000:1, about 40,000:1, about 50,000:1, about 60,000:1, about 70,000:1, about 80,000:1, about 90,000:1, about 100,000:1, or any ratio in between.

[0192] Additional sweeteners have a wide range of chemically distinct structures and hence possess varying properties, such as, without limitation, odor, flavor, mouthfeel, and aftertaste.

[0193] In some embodiments, the sweetener may comprise combinations of two or more sweeteners as disclosed herein. In some embodiments, the sweetener may comprise combinations of two, three, four or five sweeteners as disclosed herein. In some embodiments, the sweetener may be a sugar. In some embodiments, the sweetener may be a combination of one or more sugars and other natural and artificial sweeteners. In some embodiments, the sweetener is a sugar. In some embodiments, the sugar is cane sugar. In some embodiments, the sugar is beet sugar. In some embodiments, the sugar may be sucrose, fructose, glucose or combinations thereof. In some embodiments, the sugar may be sucrose. In some embodiments, the sugar may be a combination of fructose and glucose. In some embodiments, the sugar may be a combination of about 55% fructose and about 42% glucose. In some embodiments, the sugar may be a combination of about 42% fructose and about 53% glucose. In some embodiments, the sugar may be a combination of about 90% fructose and about 10% glucose. In some embodiments, the sweetener may be a rare sugar. In some embodiments, the rare sugar is selected from the group consisting of D-allose, D-psicose, L-ribose, D-tagatose, L-glucose, L-fucose, L-arbinose, D-turanose, D-leucrose and combinations thereof. In some embodiments, the rare sugar is D-psicose. In some embodiments, the rare sugar is D-tagatose. In some embodiments, the sweetener is an artificial sweetener. In some embodiments, the artificial sweetener may be sucralose.

[0194] In some embodiments, the additional sweetener may be common saccharide sweeteners, e.g., sucrose, fructose, glucose, and sweetener compositions comprising natural

sugars, such as corn syrup (including high fructose corn syrup) or other syrups or sweetener concentrates derived from natural fruit and vegetable sources; rare natural sugars including D-allose, D-psicose, L-ribose, D-tagatose, L-glucose, L-fucose, L-arabinose, D-turanose, and D-leucrose; semi-synthetic "sugar alcohol" sweeteners such as erythritol, isomalt, lactitol, mannitol, sorbitol, xylitol, maltodextrin, and the like; and artificial sweeteners such as aspartame, saccharin, acesulfame-K, cyclamate, sucralose, and alitame. In some embodiments, the sweetener may be selected from the group consisting of cyclamic acid, mogroside, tagatose, maltose, galactose, mannose, sucrose, fructose, lactose, neotame and other aspartame derivatives, glucose, D-tryptophan, glycine, maltitol, lactitol, isomalt, hydrogenated glucose syrup (HGS), hydrogenated starch hydrolyzate (HSH), stevioside, rebaudioside A and other sweet Stevia-based glycosides, carrelame and other guanidine-based sweeteners.

[0195] Natural or artificial sweeteners for use in the formulation comprising an additional sweetener in combination with at least one compounds described herein include but are not limited to natural or synthetic carbohydrates or carbohydrate analogues, including monosaccharides, disaccharides, oligosaccharides, and polysaccharides, and including rare sugars, or sugars in either of the D- or L- conformations, and include, for example, sucrose, fructose, glucose, L-arabinose, L-fucose, L-glucose, L-ribose, D-arabino-hexulose, psicose, altrose, arabinose, turanose, abequose, allose, abrusoside A, aldotriose, threose, xylose, xylulose, xylo-oligosaccharide (such as xylotriose and xylobiose), lyxose, polydextrose, oligofructose, fucose, galacto-oligosaccharide, galactosamine, galactose, gentio-oligosaccharide (such as gentiobiose, gentiotriose, and gentiotetraose), dextrose, cellobiose, D-leucrose, D-psicose, D-ribose, D-tagatose, trehalose (mycose), neotrehalose, isotrehalose, raffinose, idose, tagatose, melibiose, mannan-oligosaccharide, rhamnose, ribose, ribulose, malto-oligosaccharide (such as maltotriose, maltotetraose, maltopentaose, maltohexaose, and maltoheptaose), maltose, sucrose acetate isobutyrate, dextrose, erythrose, erythrulose, deoxyribose, gulose, ketotriose, lactose, lactulose, kestose, nystose, mannose, sucralose, palatinose, polydextrose, sorbose, sugaridextrose (blended sugar), or talose, or combinations of any two or more of the aforementioned sweeteners.

[0196] The additional sweetener can also include, for example, sweetener compositions comprising one or more natural or synthetic carbohydrate, such as corn syrup, high

fructose corn syrup, high maltose corn syrup, glucose syrup, sucralose syrup, hydrogenated glucose syrup (HGS), hydrogenated starch hydrolyzate (HSH), or other syrups or sweetener concentrates derived from natural fruit and vegetable sources, or semi-synthetic "sugar alcohol" sweeteners such as polyols. Non-limiting examples of polyols in some embodiments include erythritol, maltitol, mannitol, sorbitol, lactitol, xylitol, isomalt, propylene glycol, glycerol (glycerin), threitol, galactitol, palatinose, reduced isomalto-oligosaccharides, reduced xylo-oligosaccharides, reduced gentio-oligosaccharides, reduced maltose syrup, reduced glucose syrup, isomaltulose, maltodextrin, and the like, and sugar alcohols or any other carbohydrates or combinations thereof capable of being reduced which do not adversely affect taste.

[0197] The additional sweetener may be a natural or synthetic sweetener that includes, but is not limited to, agave inulin, agave nectar, agave syrup, amazake, brazzein, brown rice syrup, coconut crystals, coconut sugars, coconut syrup, date sugar, fructans (also referred to as inulin fiber, fructo-oligosaccharides, or oligo-fructose), green stevia powder, stevia rebaudiana, rebaudioside A, rebaudioside B, rebaudioside C, rebaudioside D, rebaudioside E, rebaudioside F, rebaudioside I, rebaudioside H, rebaudioside L, rebaudioside K, rebaudioside J, rebaudioside N, rebaudioside O, rebaudioside M and other sweet stevia-based glycosides, stevioside, stevioside extracts, honey, Jerusalem artichoke syrup, licorice root, luo han guo (fruit, powder, or extracts), lucuma (fruit, powder, or extracts), maple sap (including, for example, sap extracted from *Acer saccharum*, *Acer nigrum*, *Acer rubrum*, *Acer saccharinum*, *Acer platanoides*, *Acer negundo*, *Acer macrophyllum*, *Acer grandidentatum*, *Acer glabrum*, *Acer mono*), maple syrup, maple sugar, walnut sap (including, for example, sap extracted from *Juglans cinerea*, *Juglans nigra*, *Juglans ailatifolia*, *Juglans regia*), birch sap (including, for example, sap extracted from *Betula papyrifera*, *Betula alleghaniensis*, *Betula lenta*, *Betula nigra*, *Betula populifolia*, *Betula pendula*), sycamore sap (such as, for example, sap extracted from *Platanus occidentalis*), ironwood sap (such as, for example, sap extracted from *Ostrya virginiana*), mascobado, molasses (such as, for example, blackstrap molasses), molasses sugar, monatin, monellin, cane sugar (also referred to as natural sugar, unrefined cane sugar, or sucrose), palm sugar, panocha, piloncillo, rapadura, raw sugar, rice syrup, sorghum, sorghum syrup, cassava syrup (also referred to as tapioca syrup), thaumatin, yacon root, malt syrup, barley malt syrup, barley malt powder, beet sugar, cane sugar, crystalline juice crystals, caramel,

carbitol, carob syrup, castor sugar, hydrogenated starch hydrolates, hydrolyzed can juice, hydrolyzed starch, invert sugar, anethole, arabinogalactan, arrope, syrup, P-4000, acesulfame potassium (also referred to as acesulfame K or ace-K), alitame (also referred to as aclame), advantame, aspartame, baiyunoside, neotame, benzamide derivatives, bernadame, canderel, carrelame and other guanidine-based sweeteners, vegetable fiber, corn sugar, coupling sugars, curculin, cyclamates, cyclocarioside I, demerara, dextran, dextrin, diastatic malt, dulcin, sucrol, valzin, dulcoside A, dulcoside B, emulin, enoxolone, maltodextrin, saccharin, estragole, ethyl maltol, glucin, gluconic acid, glucono-lactone, glucosamine, glucoronic acid, glycerol, glycine, glycyphillin, glycyrrhizin, golden sugar, yellow sugar, golden syrup, granulated sugar, gynostemma, hernandulcin, isomerized liquid sugars, jallab, chicory root dietary fiber, kynurenine derivatives (including N'-formyl-kynurenine, N'-acetyl-kynurenine, 6-chloro-kynurenine), galactitol, litesse, ligicane, lycasin, lugduname, guanidine, falernum, mabinlin I, mabinlin II, maltol, maltisorb, maltodextrin, maltotriol, mannosamine, miraculin, mizuame, mogrosides (including, for example, mogroside IV, mogroside V, and neomogroside), mukurozioside, nano sugar, naringin dihydrochalcone, neohesperidine dihydrochalcone, nib sugar, nigero-oligosaccharide, norbu, orgeat syrup, osladin, pekmez, pentadin, periandrin I, perillaldehyde, perillartine, petphyllum, phenylalanine, phlomisoside I, phlorodizin, phyllodulcin, polyglycitol syrups, polypodoside A, pterocaryoside A, pterocaryoside B, rebiana, refiners syrup, rub syrup, rubusoside, selligueain A, shugr, siamenoside I, siraitia grosvenorii, soybean oligosaccharide, Splenda, SRI oxime V, steviol glycoside, steviolbioside, stevioside, strogins 1, 2, and 4, sucronic acid, sucrononate, sugar, suosan, phloridzin, superaspartame, tetrasaccharide, threitol, treacle, trilobtain, tryptophan and derivatives (6-trifluoromethyl-tryptophan, 6-chloro-D-tryptophan), vanilla sugar, volemitol, birch syrup, aspartame-acesulfame, assugrin, and combinations or blends of any two or more thereof.

[0198] In some embodiments, the additional sweeter is selected from steviolbioside, stevioside, stevia rebaudiana, rebaudioside A, rebaudioside B, rebaudioside C, rebaudioside D, rebaudioside E, rebaudioside F, rebaudioside I, rebaudioside H, rebaudioside L, rebaudioside K, rebaudioside J, rebaudioside N, rebaudioside O, rebaudioside M, glycyrrhetinic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzelin, and combinations or blends of any two or more thereof.

[0199] In still other embodiments, the additional sweetener can be a chemically or enzymatically modified natural high potency sweetener. Modified natural high potency sweeteners include glycosylated natural high potency sweetener such as glucosyl-, galactosyl-, or fructosyl- derivatives containing 1-50 glycosidic residues. Glycosylated natural high potency sweeteners may be prepared by enzymatic transglycosylation reaction catalyzed by various enzymes possessing transglycosylating activity. In some embodiments, the modified sweetener can be substituted or unsubstituted.

[0200] Additional sweeteners also include combinations of any two or more of any of the aforementioned sweeteners. In some embodiments, the sweetener may comprise combinations of two, three, four or five sweeteners as disclosed herein. In some embodiments, the sweetener may be a sugar. In some embodiments, the sweetener may be a combination of one or more sugars and other natural and artificial sweeteners.

[0201] One of skill in the art will recognize that any one or more of any one of the aforementioned additional sweeteners can be combined in various ratios, amounts, or concentrations to yield an additional sweetener alone or a combination of two or more additional sweeteners, which is then combined with a compound described herein.

[0202] One of skill in the art will recognize that the aforementioned additional sweeteners for use in a formulation comprising one or more additional sweeteners and one or more compound described herein are provided by way of example and are not intended to be limiting.

[0203] In some embodiments, the ingestible composition does not comprise an additional sweetener. In some embodiments, the ingestible composition does not comprise one or more additional sweeteners selected from the group consisting of sucrose, fructose, or glucose.

[0204] In some embodiments, the composition comprises a sweetening compound and/or a sweet flavor enhancing compound, and one or more inactive ingredients. Representative inactive ingredients include but are not limited to, those declared to the U.S. Food and Drug Administration. Such inactive ingredients include: Alpha-Terpineol; Alpha-Tocopherol; Alpha-Tocopherol Acetate; Alpha-Tocopherol Acetate, Dl-; Alpha-Tocopherol, Dl-; Beta-Carotene; Beta-Cyclodextrin Sulfobutyl Ether Sodium; Beta-Ionone; 1-(Phenylazo)-2-Naphthylamine; 1,2,6-Hexanetriol; 1,2-Dimyristoyl-Sn-Glycero-3-(Phospho-S-(1-Glycerol));

1,2-Dimyristoyl-Sn-Glycero-3-Phosphocholine; 1,2-Dioleoyl-Sn-Glycero-3-Phosphocholine; 1,2-Dipalmitoyl-Sn-Glycero-3-(Phospho-Rac-(1-Glycerol)); 1,2-Distearoyl-Sn-Glycero-3-(Phospho-Rac-(1-Glycerol)); 1,2-Distearoyl-Sn-Glycero-3-Phosphocholine; 1-Aminocyclohexanecarboxylic Acid, C-11; 1-O-Tolylbiguanide; 2212 Fine Black; 2-Ethyl-1,6-Hexanediol; Acacia; Acacia Syrup; Acesulfame; Acesulfame Potassium; Acetaminophen; Acetic Acid; Acetic Anhydride; Acetone; Acetone Sodium Bisulfite; Acetonitrile; Acetophenone; Acetylated Lanolin Alcohols; Acetylcysteine; Acetyltributyl Citrate; Acetyltryptophan, Dl-; Acid Blue 9 Ammonium; Acid Orange 20; Acrylates Copolymer; Acryl-Eze 93018509 White; Acryl-Eze 93053823 Orange; Acryl-Eze 93084719 Pink; Acryl-Eze 93084720 Pink; Acrylic Acid-Isooctyl Acrylate Copolymer; Acrylic Adhesive 788; Activated Charcoal; Adcote 72a103; Adhesive Tape; Adipic Acid; Advantia Prime 190100ba01 White; Aerotex Resin 3730; Agar; Air; Alanine; Albumin Aggregated; Albumin Colloidal; Albumin Human; Albumins; Alcloxa; Alcohol; Alfadex; Algeldrate; Alginic Acid; Alkyl Ammonium Sulfonic Acid Betaine; Alkyl Aryl Sodium Sulfonate; Allantoin; Almond Oil; Althaea Officinalis Root; Aluminum Acetate; Aluminum Hydroxide; Aluminum Hydroxide - Sucrose, Hydrated; Aluminum Monostearate; Aluminum Oxide; Aluminum Polyester; Aluminum Silicate; Aluminum Silicate Pentahydrate; Aluminum Starch Octenylsuccinate; Aluminum Stearate; Aluminum Subacetate; Aluminum Sulfate Anhydrous; Aluminum Sulfate Tetradecahydrate; Alzamer-39; Alzamer-50; Amaranth; Amberlite; Amberlite Xe-58; Amberlite Xe-88; Amerchol C; Amerchol-Cab; Aminobenzoate Sodium; Aminomethylpropanol; Ammonia; Ammonio Methacrylate Copolymer; Ammonio Methacrylate Copolymer Type A; Ammonio Methacrylate Copolymer Type B; Ammonium Acetate; Ammonium Calcium Alginate; Ammonium Chloride; Ammonium Glycyrrhizate; Ammonium Lauryl Sulfate; Ammonium Nonoxynol-4 Sulfate; Ammonium Phosphate, Dibasic; Ammonium Salt Of C-12-C-15 Linear Primary Alcohol Ethoxylate; Ammonium Sulfate; Ammonyx; Amphoteric-9; Amyl Acetate; Anethole; Anhydrous Citric Acid; Anhydrous Dextrose; Anhydrous Dibasic Calcium Phosphate; Anhydrous Lactose; Anhydrous Trisodium Citrate; Anidrisorb 85/70; Anise; Anise Oil; Anoxid Sbn; Antifoam; Antifoam Dc; Antifoam M; Antipyrine; Apaflurane; Apricot Kernel Oil Peg-6 Esters; Aquacel 126; Aquacoat; Aquacoat Ecd; Aquacoat Ecd-30; Aquaphor; Aquarius Bkt14090 Yellow; Aquarius Bp17066 Blue; Arginine; Arlacel; Ascorbic Acid; Ascorbyl Palmitate; Aspartame; Aspartic Acid; Attapulgite;

Balsam Peru; Barium Sulfate; Beeswax, Synthetic; Beheneth-10; Bentonite; Benzaldehyde; Benzalkonium Chloride; Benzenesulfonic Acid; Benzethonium Chloride; Benzododecinium Bromide; Benzoic Acid; Benzoin Resin; Benzyl Acetate; Benzyl Alcohol; Benzyl Benzoate; Benzyl Chloride; Benzyl Violet; Betadex; Betanaphthol; Betose; Bibapcitide; Bismuth Subcarbonate; Bismuth Subgallate; Black Currant; Black Ink; Boric Acid; Brocrinat; Brown Iron Oxide; Buffered Soda; Butane; Butyl Alcohol; Butyl Ester Of Methyl Vinyl Ether/Maleic Anhydride Copolymer (125000 Mw); Butyl Stearate; Butylated Hydroxyanisole; Butylated Hydroxytoluene; Butylene Glycol; Butylparaben; Butyric Acid; C12-15 Alkyl Lactate; C20-40 Pareth-24; Caffeine; Calcium; Calcium Acetate; Calcium Alginate And Ammonium Alginate; Calcium Ascorbate; Calcium Carbonate; Calcium Carrageenan Sulfate; Calcium Chloride; Calcium Citrate; Calcium Cyclamate; Calcium Gluceptate; Calcium Hydroxide; Calcium Lactate; Calcium Phosphate Dibasic Dihydrate-Sucrose Agglomerate; Calcium Phosphate, Dibasic Monohydrate; Calcium Phosphate, Calcium Polycarbophil; Calcium Pyrophosphate; Calcium Salicylate; Calcium Silicate; Calcium Stearate; Calcium Sulfate Anhydrous; Calcium Sulfate Dihydrate; Calcium Sulfate Hemihydrate; Calcium Sulfate, Calcobutrol; Caldiamide Sodium; Caloxetate Trisodium; Calteridol Calcium; Canada Balsam; Candelilla Wax; Candesartan Cilexetil; Canola Oil; Caprylic/Capric Mono/Diglycerides; Caprylic/Capric/Stearic Triglyceride; Caprylic/Capric/Succinic Triglyceride; Caprylocaproyl Macrogolglycerides; Capsicum Oleoresin; Captan; Caramel; Carbomer 1382; Carbomer Copolymer Type B (Allyl Pentaerythritol Crosslinked); Carbomer Homopolymer Type A (Allyl Pentaerythritol Crosslinked); Carbomer Homopolymer Type B (Allyl Pentaerythritol Crosslinked); Carbomer Homopolymer Type B (Allyl Pentaerythritol Or Allyl Sucrose Crosslinked); Carbomer Homopolymer Type C (Allyl Pentaerythritol Crosslinked); Carbon Dioxide; Carbon Tetrachloride; Carboxy Vinyl Copolymer; Carboxymethyl Starch; Carboxymethylamylopectin Sodium; Carboxymethylcellulose; Carboxymethylcellulose Calcium; Carboxymethylcellulose Sodium; Carboxypolymethylene; Carmine; Carmine 50; Carnauba Wax; Carrageenan; Carrageenan Calcium; Carrageenan Sodium; Carvone, (-)-; Castor Oil; Cedar Leaf Oil; Cellaburate; Cellacefate; Cellulose Acetate; Cellulose Acetate Ca-320s; Cellulose Acetate Ca-398-10; Cellulose Microcrystalline/Carboxymethylcellulose Sodium; Cellulose, Microcrystalline; Cellulose, Oxidized; Cellulosic Polymers; Ceresin; Ceteareth-12; Ceteareth-15;

Ceteareth-30; Cetearyl Alcohol/Ceteareth-20; Cetearyl Ethylhexanoate; Ceteth-10; Ceteth-2; Ceteth-20; Ceteth-23; Cetostearyl Alcohol; Cetrimonium Chloride; Cetyl Alcohol; Cetyl Esters Wax; Cetyl Palmitate; Cetylpyridinium Chloride; Chemoderm 6401b; Cherry; Cherry Juice; Chinese Cinnamon Oil; Chlorobutanol; Chlorobutanol Hemihydrate; Chlorocresol; Chloroform; Chloroxylenol; Cholesterol; Choleth; Choleth-24; Chondrus Crispus Carrageenan; Chromacote T 2700gn; Chromacote T 2716y; Chroma-Kote T2956-Y Yellow; Ciclopirox Olamine; Cinnamaldehyde; Cinnamon; Cinnamon Oil; Citric Acid Monohydrate; Citrus Sinensis Flower Oil; Clove Oil; Coateric Ypa-6-7430 White; Cocamide Ether Sulfate; Cocamine Oxide; Coco Betaine; Coco Diethanolamide; Coco Monoethanolamide; Cocoa; Cocoa Butter; Coco-Caprylate/Caprate; Coco-Glycerides; Coconut Oil; Coconut Oil - Lecithin; Coconut Oil/Palm Kernel Oil Glycerides, Hydrogenated; Coffee Bean; Cola Nut; Collagen; Color Hs 290008cr01 White; Color Icg-U-10251 Brown; Coloring Suspension; Compressible Sugar; Copovidone K25-31; Coriander Oil; Corn Glycerides; Corn Oil; Corn Oil Peg-6 Esters; Corn Syrup; Cottonseed Oil; Cream Base; Creatine; Creatinine; Cresol; Croscarmellose; Croscarmellose Sodium; Crospovidone (15 Mpa.S At 5%); Crystal Gum; Cupric Sulfate; Cupric Sulfate Anhydrous; Cutina; Cyclamic Acid; Cyclomethicone; Cyclomethicone 5; Cyclomethicone/Dimethicone Copolyol; Cysteine; Cysteine Hydrochloride; Cysteine Hydrochloride Anhydrous; Cysteine, Dl-; D&C Black No. 2; D&C Blue No. 1 Lake; D&C Blue No. 1--Aluminum Lake; D&C Blue No. 2 Lake; D&C Blue No. 4; D&C Blue No. 6; D&C Blue No. 9; D&C Brown No. 1; D&C Green No. 3 Lake; D&C Green No. 5; D&C Green No. 6; D&C Orange No. 4; D&C Red No. 21--Aluminum Lake; D&C Red No. 22; D&C Red No. 27; D&C Red No. 27 Lake; D&C Red No. 27--Aluminum Lake; D&C Red No. 28; D&C Red No. 28--Aluminum Lake; D&C Red No. 30; D&C Red No. 30 Lake; D&C Red No. 33; D&C Red No. 33 Lake; D&C Red No. 36; D&C Red No. 39; D&C Red No. 4 Lake; D&C Red No. 40 Lake; D&C Red No. 6; D&C Red No. 6 Barium Lake; D&C Red No. 6 Lake; D&C Red No. 7; D&C Red No. 7 Lake; D&C Violet No. 2 Lake; D&C Yellow No. 10; D&C Yellow No. 10 Lake; D&C Yellow No. 10-Aluminum Lake; D&C Yellow No. 10--Aluminum Lake; D&C Yellow No. 11; D&C Yellow No. 5--Aluminum Lake; D&C Yellow No. 6 Lake; Daubert 1-5 Pestr (Matte) 164z; Dc Antifoam Af Trituration 1% On Sucrose; Decyl Methyl Sulfoxide; Dehydag Wax Sx; Dehydroacetic Acid; Dehymuls E; Denatonium Benzoate; Deoxycholic Acid; Dexbrompheniramine Maleate; Dextran; Dextran 40;

Dextrates; Dextrins Modified; Dextrose Monohydrate; Dextrose; Diacetylated Monoglycerides; Diastase, Malt; Diatomaceous Earth; Diatrizoic Acid; Diazolidinyl Urea; Dibasic Calcium Phosphate Dihydrate; Dibutyl Sebacate; Dichlorobenzyl Alcohol; Dichlorodifluoromethane; Dichlorofluoromethane; Dichlorotetrafluoroethane; Diethanolamine; Diethyl Phthalate; Diethyl Pyrocarbonate; Diethyl Sebacate; Diethylaminoethyl Stearamide Phosphate; Diethylene Glycol Monoethyl Ether; Diethylhexyl Phthalate **See Cder Guidance: Limiting The Use Of Certain Phthalates As Excipients In Cder-Regulated Products; Dihydroxyaluminum Aminoacetate; Dihydroxyaluminum Sodium Carbonate; Diisopropanolamine; Diisopropyl Adipate; Diisopropyl Dilinoleate; Diisopropylbenzothiazyl-2-Sulfenamide; Dimethicone; Dimethicone 100; Dimethicone 1000; Dimethicone 20; Dimethicone 350; Dimethicone Mdx4-4210; Dimethiconol/Trimethylsiloxysilicate Crosspolymer (40/60 W/W; 1000000 Pa.S); Dimethyl Isosorbide; Dimethyl Phthalate; Dimethyl Sulfoxide; Dimethylaminoethyl Methacrylate - Butyl Methacrylate - Methyl Methacrylate Copolymer; Dimethyldioctadecylammonium Bentonite; Dimethylsiloxane/Methylvinylsiloxane Copolymer; Dinoseb-Ammonium; Dipalmitoylphosphatidylglycerol, Dl-; Dipentenedimercaptan; Dipropylene Glycol; Disodium Citrate Sesquihydrate; Disodium Cocoamphodiacetate; Disodium Hydrogen Citrate; Disodium Laureth Sulfosuccinate; Disodium Lauryl Sulfosuccinate; Disodium Oleamido Monoethanolamine Sulfosuccinate; Disodium Sulfosalicylate; Disofenin; Distearoylphosphatidylcholine, Dl-; Divinylbenzene Styrene Copolymer; Dmdm Hydantoin; Docosanol; Docusate Sodium; Docusate Sodium/Sodium Benzoate; Dri Klear; Dri Klear 042; Dri Klear Lv 609527; Dry Flo; Dry-Clear Lv; Duro-Tak 280-2516; Duro-Tak 387-2516; Duro-Tak 80-1196; Duro-Tak 87-2070; Duro-Tak 87-2194; Duro-Tak 87-2287; Duro-Tak 87-2296; Duro-Tak 87-2888; Duro-Tak 87-2979; Dusting Powder; Dye Beige P-1437; Dye Black Lb-1171; Dye Black Lb-442; Dye Black Lb-636; Dye Black Lb-9972; Dye Black Oxide; Dye Blue Lake Blend Lb-1245; Dye Blue Lake Blend Lb-1939; Dye Blue Lake Blend Lb-332; Dye Blue Lakolene; Dye Blue Lb-781; Dye Brown Lake; Dye Brown Lake Blend; Dye Brown Lake Blend Lb-1685; Dye Brown Lake Blend Lb-1792; Dye Brown Lb-292; Dye Brown Lb-464; Dye Burnt Umber; Dye Caramel 105; Dye Caramel Acid Proof 100; Dye Carmine 09349; Dye Casing 27-75; Dye Chroma-Teric Deb-5037-Ore; Dye Chroma-Teric T3000-We; Dye Chroma-Teric Yellow T3277-Ye; Dye Chroma-Tone; Dye Chroma-Tone Pddb-8906w; Dye Chroma-Tone-P

Ddb-8746-Or; Dye Dc Red Lake; Dye Dc Red Lb No. 9570; Dye Dc Red Lb Wj-9570; Dye Diolack 00f32892 Yellow; Dye Emerald Green Lb; Dye Emerald Green Lb-9207; Dye Fdc Black Lb260; Dye Fdc Blue No. 10; Dye Fdc Blue No. 40 Ht Lake; Dye Fdc Brown R Lb-56069; Dye Fdc Green Lb-1174; Dye Fdc Green Lb-3323; Dye Fdc Green Lb-9583; Dye Fdc Lb483; Dye Fdc Orange Lb-452; Dye Fdc Purple Lb588; Dye Fdc Purple Lb-694; Dye Grape; Dye Gray No. 2982; Dye Green 70363; Dye Green Al Lb-265; Dye Green Aluminum Lb; Dye Green Lake Blend Lb-1236; Dye Green Lake Blend Lb-1441; Dye Green Lake Blend Lb-1644; Dye Green Lake Blend Lb-333; Dye Green Lb; Dye Green Lb-1594; Dye Green Lb-1616; Dye Green Lb-279; Dye Green Lb-482; Dye Green Lb-555; Dye Green Lb-603; Dye Green Lb-820; Dye Green Lb-883; Dye Green Pb-1543; Dye Green Pb-1763; Dye Green Pb-1766; Dye Green Pms-579; Dye Green Pr-1333; Dye Green Pr-1339; Dye Lavender; Dye Lavender Lake Blend Lb-1603; Dye Lavender Lb-1356; Dye Mint Green; Dye Ochre 3506; Dye Orange 54172; Dye Orange Lake Blend 3810; Dye Orange Lake Blend Lb-1439; Dye Orange Lake Blend Lb-1944; Dye Orange Lb-1387; Dye Orange Lb-715; Dye Orange Pb-1657; Dye Orange Pb-2148; Dye Peach Lb-1576; Dye Pink; Dye Purple Lake; Dye Purple Lb-1902; Dye Purple Lb-562; Dye Purple Lb-639; Dye Purple Lb-694; Dye Red Cotolene-P; Dye Red Lake Blend 6053-R; Dye Red Pb-1595; Dye Red R07058; Dye Salmon Lb-1668; Dye Spectraspray Blue 50726; Dye Swedish Orange No. 2191; Dye Tan Pb-1388; Dye Tetrarome Orange; Dye Turquoise Lb-1430; Dye Violet; Dye White Coateric Ypa-6-7089; Dye White Cotolene-P; Dye White Tc-1032; Dye Wild Cherry 7598; Dye Yellow 70362; Dye Yellow Lake Blend Lb-1769; Dye Yellow Lb 104; Dye Yellow Lb 9706; Dye Yellow Lb-111; Dye Yellow Lb-1577; Dye Yellow Lb-1637; Dye Yellow Lb-282; Dye Yellow No. 62; Dye Yellow Pb1345; Dye Yellow Pb-1381; Dye Yellow Wd-2014; Edetate Calcium Disodium; Edetate Disodium; Edetate Disodium Anhydrous; Edetate Sodium; Edetic Acid; Egg Phospholipids; Eiderdown Soap; Entsufon; Entsufon Sodium; Epilactose; Epitetracycline Hydrochloride; Erythorbic Acid; Erythritol; Essence Bouquet 9200; Essence Fritzbro Orange; Essence Lemon; Essence Orange; Ethanolamine Hydrochloride; Ether; Ethyl Acetate; Ethyl Acrylate And Methyl Methacrylate Copolymer (2:1; 750000 Mw); Ethyl Maltol; Ethyl Oleate; Ethyl Vanillate; Ethyl Vanillin; Ethylcellulose (10 Mpa.S); Ethylcellulose (20 Mpa.S); Ethylcellulose (4 Mpa.S); Ethylcellulose (45 Mpa.S); Ethylcellulose (50 Mpa.S); Ethylcellulose (7 Mpa.S); Ethylcelluloses; Ethylene; Ethylene Glycol; Ethylene Glycol

Monoethyl Ether; Ethylenediamine; Ethylenediamine Dihydrochloride; Ethylene-Propylene Copolymer; Ethylene-Vinyl Acetate Copolymer (15% Vinyl Acetate); Ethylene-Vinyl Acetate Copolymer (28% Vinyl Acetate); Ethylene-Vinyl Acetate Copolymer (9% Vinylacetate); Ethylene-Vinyl Acetate Copolymers; Ethylhexyl Hydroxystearate; Ethylparaben; Eucalyptol; Eucalyptus Oil; Eugenol; Exametazime; Ext. D&C Yellow No. 7; Fat, Edible; Fat, Hard; Fatty Acid Esters; Fatty Acid Esters, Saturated; Fatty Acid Glycerides; Fatty Acid Pentaerythriol Ester; Fatty Acids; Fatty Alcohol Citrate; Fatty Alcohols; Fd&C Blue No. 1; Fd&C Blue No. 1 Lake; Fd&C Blue No. 1--Aluminum Lake; Fd&C Blue No. 2; Fd&C Blue No. 2--Aluminum Lake; Fd&C Green No. 3; Fd&C Red No. 3; Fd&C Red No. 30--Aluminum Lake; Fd&C Red No. 3--Aluminum Lake; Fd&C Red No. 4; Fd&C Red No. 40; Fd&C Red No. 40--Aluminum Lake; Fd&C Yellow No. 5; Fd&C Yellow No. 5--Aluminum Lake; Fd&C Yellow No. 6; Fd&C Yellow No. 6-Aluminum Lake; Fd&C Yellow No. 6--Aluminum Lake; Feculose; Ferric Chloride; Ferric Oxide Brown; Ferric Oxide Green; Ferric Oxide Orange; Ferric Oxide Pink; Ferric Oxide Red; Ferric Oxide Yellow; Ferrosoferric Oxide; Ferrous Fumarate; Ferrous Oxide; Ferula Assa-Foetida Resin; Film Coating Solution, Aqueous Im-163; Firmenich 51.226/T; Flavor 18317; Flavor 57000 Iu; Flavor 57820/A; Flavor 89-186; Flavor 89-259; Flavor Anise 29653; Flavor Aniseed 501007 Bp0551; Flavor Apple Watermelon Pfc 9887; Flavor Apricot 23067; Flavor Apricot 24829; Flavor Apricot Peach; Flavor Aromalok 182608; Flavor Aromalok 262453; Flavor Banana 11090; Flavor Banana 15223; Flavor Banana 501013 Ap0551; Flavor Banana 59256c; Flavor Banana 71507; Flavor Banana 74546; Flavor Banana 8763; Flavor Banana 9.19081; Flavor Banana Durarome 860.095 Td09.91; Flavor Banana Fmc 23406; Flavor Banana Fn-6713; Flavor Banana Sa84; Flavor Bba-47769; Flavor Berry Citrus Blend 8409; Flavor Berry Citrus Blend 9621; Flavor Berry Citrus Blend 9756; Flavor Berry Fruit Punch 135846; Flavor Bitter Mask 9885; Flavor Bitterness Modifier 15555; Flavor Bitterness Modifier 36734; Flavor Bitterness Modifier 367343; Flavor Black Cherry 501027 Ap0551; Flavor Black Cherry 825.083; Flavor Blood Orange 51.226t; Flavor Blood Orange Sa; Flavor Bubble Gum 15864; Flavor Bubble Gum 175303; Flavor Bubble Gum 3266p; Flavor Bubble Gum Mc-4938; Flavor Burnt Sugar 680537; Flavor Burnt Sugar 687817; Flavor Burnt Sugar 994535; Flavor Butter Vanilla; Flavor Buttermint 24020; Flavor Butterscotch 61oo5-U; Flavor Butterscotch F-1785; Flavor C&K Mixed Fruit A13688; Flavor Candied Sugar 510155u; Flavor Cheri Beri Pcd-

5580; Flavor Cheri-Beri Pfc-8573; Flavor Cheri-Beri Pfc-8580; Flavor Cherry 104613; Flavor Cherry 107026; Flavor Cherry 11539; Flavor Cherry 11929; Flavor Cherry 1566; Flavor Cherry 181612; Flavor Cherry 213; Flavor Cherry 231494; Flavor Cherry 3321; Flavor Cherry 338614; Flavor Cherry 349; Flavor Cherry 461566; Flavor Cherry 500910u; Flavor Cherry 57.679/A; Flavor Cherry 590271a; Flavor Cherry 594 S.D.; Flavor Cherry 598384; Flavor Cherry 825.382; Flavor Cherry 825.476wc; Flavor Cherry 842; Flavor Cherry 8513; Flavor Cherry A-22872; Flavor Cherry Beri Pfc-8573; Flavor Cherry Berry F-1194; Flavor Cherry Blend 770; Flavor Cherry Burgundy 11650; Flavor Cherry Cream 14850; Flavor Cherry Dp300684; Flavor Cherry Durarome 860.097 Td10.91; Flavor Cherry E.P.Modified 151; Flavor Cherry Ep-3699; Flavor Cherry F-232; Flavor Cherry Fi-8568; Flavor Cherry Fmc 22872; Flavor Cherry Fmc 8513; Flavor Cherry Fona 825.662; Flavor Cherry H&R Pharma 004; Flavor Cherry Iff 13530912; Flavor Cherry L-1233; Flavor Cherry Maraschino S-3531; Flavor Cherry Mint 5073a; Flavor Cherry N-2755; Flavor Cherry Nv-1489; Flavor Cherry Pfc-9768; Flavor Cherry Pistachio Pfc-8450; Flavor Cherry R-6556; Flavor Cherry Vanilla Compound A77487; Flavor Cherry Wixon 3566; Flavor Cherry Wl-1093; Flavor Cherry Wl-18022; Flavor Cherry Wl-4658; Flavor Cherry-Anise Pfc-9758; Flavor Chloroform 103589; Flavor Chocolate P727; Flavor Cinnamon; Flavor Cinnamon Sd 516; Flavor Cinnamon Veko 3726; Flavor Citrus Fn-7176; Flavor Citrus/Fruit Freeze 1100609500; Flavor Coconut 41; Flavor Coconut F-3893; Flavor Coconut Toasted 1323pg; Flavor Cola Fmc 15740; Flavor Cool Vanilla Bp18114; Flavor Cool Vanilla Bp18257; Flavor Cotton Candy 30-92-0011; Flavor Cotton Candy F-9967; Flavor Cough Syrup 110257; Flavor Cough Syrup 134681; Flavor Cough Syrup 819; Flavor Cream Ep-17688; Flavor Cream Soda; Flavor Creamy Vanilla 16345; Flavor Creme 46971; Flavor Creme De Menthe 14677; Flavor Creme De Vanilla 28156; Flavor Curacao; Flavor Curacao 50.397a; Flavor Custard 52.940/A Fir; Flavor Df-119; Flavor Df-1530; Flavor E-472; Flavor Enhancer; Flavor F-5397a; Flavor F-9843; Flavor Felton 6-R-9; Flavor Fig 827118; Flavor Fona 815.019wc; Flavor Fritzsche 21028-D; Flavor Fritzsche 46215; Flavor Fritzsche 73959; Flavor Fritzsche 75021; Flavor Fruit 01-10428; Flavor Fruit 84.6422; Flavor Fruit Fn-6714; Flavor Fruit Gum 912; Flavor Fruit Mint 75588; Flavor Fruit N&A Ws-605398; Flavor Fruit Punch 14761fm; Flavor Fruit Punch No. 28140; Flavor Fruit Punch No. 716; Flavor Fruit Tak 20008; Flavor Golden Punch; Flavor Grape 054158; Flavor Grape 10273; Flavor Grape 13403873; Flavor Grape

486939; Flavor Grape 501040a; Flavor Grape 501417c; Flavor Grape 59.145/Apo5.51; Flavor Grape 59.266/Apo5.51; Flavor Grape 61.13252; Flavor Grape 6175; Flavor Grape F&F 231460; Flavor Grape Firmenich 587.444; Flavor Grape Firmenich 597.303/C; Flavor Grape Givaudan 433160; Flavor Grape Iff 13549478; Flavor Grape Manheimer 522463; Flavor Grape Micron Zd-3876; Flavor Grape Nector Pfc-8599; Flavor Grape Pfc 8439; Flavor Grape Pfc-9711; Flavor Grape Pfc-9924; Flavor Grape St6835/09; Flavor Guarana Fmc-15417; Flavor Haverstroo Zd 49284; Flavor Iff Fp 69 F; Flavor Kiwi S-718; Flavor Lemon 812; Flavor Lemon Fmc-10471; Flavor Lemon Givaudan 74940-74; Flavor Lemon Lime Sd 935; Flavor Lemon Mint 862.547; Flavor Lemon Mint Fritzsche 54369; Flavor Lemon N&A 397; Flavor Lemon Spray V3938-1n1; Flavor Magnasweet 110; Flavor Mandarin 15228-71; Flavor Maque Tree 377(Bush); Flavor Mask Rbt-Nv-7759; Flavor Masker Fn-6819; Flavor Masker Fn-6820; Flavor Masking 35321; Flavor Masking Agent 141.18074; Flavor Masking Tak-031431; Flavor Mcp Lemon Duramone 4409a; Flavor Mcp Lime Duramone 6419; Flavor Menthol 875.017; Flavor Menthol Mint Pfc-9926; Flavor Menthol Tak-020184; Flavor Menthol Veralock; Flavor Mint 287; Flavor Mint 501359; Flavor Mint 51296 Tp0551; Flavor Mint Sn027513; Flavor Mixed Fruit Pfc-9970; Flavor Orange 002.120; Flavor Orange 13334; Flavor Orange 249792; Flavor Orange 501071 Ap0551; Flavor Orange 57.458/Ap05.51; Flavor Orange 607217; Flavor Orange 739k (Pb82); Flavor Orange 74016-71; Flavor Orange 9/79j839; Flavor Orange Banana Wl-18093; Flavor Orange Blood Silician Fn-12235; Flavor Orange G-10431; Flavor Orange Givaudan 74388-74; Flavor Orange No. 7679; Flavor Orange P-5614; Flavor Orange Pfw-730016u; Flavor Orange Pineapple Fv-43; Flavor Orange Wonf 608352; Flavor Orbit Serene 20340; Flavor Peach 10457; Flavor Peach 13503584; Flavor Peach 23070; Flavor Peach 302789; Flavor Peach 57695; Flavor Peach Mint Fritzsche 106109; Flavor Peach Pineapple Fmc 14258; Flavor Peppermint 104; Flavor Peppermint 131989; Flavor Peppermint 501500; Flavor Peppermint 517; Flavor Peppermint 894.115; Flavor Peppermint 894.143; Flavor Peppermint Art F-10012; Flavor Peppermint Extract Fn-2356; Flavor Peppermint F94249; Flavor Peppermint K373; Flavor Peppermint Pfc 9927; Flavor Peppermint Seelock 34907; Flavor Peppermint Sn583865; Flavor Peppermint Stick Fmc 16170; Flavor Peppermint Tak-022173; Flavor Peppermint Wl-6167; Flavor Peppermint, Natural Spraylene; Flavor Perlarom Strawberry; Flavor Pharmaceutical 182608; Flavor Pharmasweet 10772900; Flavor Pineapple 182661; Flavor Pineapple 501085;

Flavor Pineapple N-2566; Flavor Pineapple N-2766; Flavor Pineapple-Coconut; Flavor Prosweet 694; Flavor Punch 610962u; Flavor Punch Wl-7126; Flavor Raspberry 1840; Flavor Raspberry 21028d; Flavor Raspberry 262085; Flavor Raspberry 28106; Flavor Raspberry 50776; Flavor Raspberry 65934; Flavor Raspberry 8456; Flavor Raspberry 954; Flavor Raspberry 954k (Bk77); Flavor Raspberry 998; Flavor Raspberry A11693; Flavor Raspberry Arome Pfc-9908; Flavor Raspberry Cream Pfc-9950; Flavor Raspberry D9599; Flavor Raspberry Dy-04447; Flavor Raspberry F-1784; Flavor Raspberry F-1840; Flavor Raspberry F-6887-S; Flavor Raspberry Pfc-8407; Flavor Raspberry Polak 5000064; Flavor Refrachessment Fd-8027d; Flavor Rhodia Pharmaceutical No. Rf 451; Flavor Rob Nv-23027; Flavor Root Beer 180339; Flavor Strawberry 052311 Ap0551; Flavor Strawberry 11545; Flavor Strawberry 133.5655; Flavor Strawberry 14953; Flavor Strawberry 17.36.8509; Flavor Strawberry 17c56217; Flavor Strawberry 52.311ap; Flavor Strawberry 5210(Fd&D); Flavor Strawberry 52312/A; Flavor Strawberry 52312/Ap0551; Flavor Strawberry 55058; Flavor Strawberry 5951; Flavor Strawberry 9843; Flavor Strawberry Banana 24020; Flavor Strawberry Cream 11407-33; Flavor Strawberry Cream Phl-131991; Flavor Strawberry Dy-04359; Flavor Strawberry F-5665; Flavor Strawberry F-5930-A; Flavor Strawberry Fn-13819; Flavor Strawberry Guarana 586.997/Apo5.51; Flavor Strawberry Microseal; Flavor Strawberry Pfc-9626; Flavor Strawberry Phs-132962; Flavor Strawberry Trusil Windsor 2373031; Flavor Strawberry Wd Fo-1022; Flavor Strawberry Wl-16650; Flavor Sweet 24052; Flavor Sweet 604978; Flavor Sweet Tone 28837; Flavor Sweet-Am 918.005; Flavor Sweetness Enhancer 5401b; Flavor Tangerine Fritzsche 51465; Flavor Tetrarome; Flavor Tm 313298; Flavor Tpf 135; Flavor Tpf 143; Flavor Tropical Blend Fv-50; Flavor Tropical Fruit Punch 1591; Flavor Tropical Fruit Punch N&A 50432; Flavor Tutti Frutti 0002028; Flavor Tutti Frutti 24093fm; Flavor Tutti Frutti 501.103/A; Flavor Tutti Frutti 51.880/Ap05.51; Flavor Tutti Frutti P-5400; Flavor Tutti Frutti Wl-18481; Flavor Vanilla 20.4573.5p Pha; Flavor Vanilla 323453; Flavor Vanilla 33869; Flavor Vanilla 501441 Ap2004; Flavor Vanilla C7984; Flavor Vanilla F-6257; Flavor Vanilla Orange; Flavor Vanilla P-1160; Flavor Vanilla Pfc-8541; Flavor Vanilla Pfc-9772; Flavor Veralock Bubble Gum; Flavor Wild Cherry 29653; Flavor Wild Cherry 695047u; Flavor Wild Cherry Givaudan F-1813; Flavor Wild Cherry K-321; Flavor Wild Cherry Nv-101-1489; Flavor Wild Cherry Pfc-14783; Flavor Wild Cherry Wl-1093; Flavor Wintergreen Pfc-8421; Flavor Yellow Plum Lemon 39k 020;

Florasynth; Flour; Fluorescein; Fluorochlorohydrocarbons; Formaldehyde; Fosveset; Fragrance 3949-5; Fragrance 520a; Fragrance 6.007; Fragrance 91-122; Fragrance 9128-Y; Fragrance 93498g; Fragrance Balsam Pine; Fragrance Balsam Pine No. 5124; Fragrance Bouquet 10328; Fragrance Chemoderm 6401-B; Fragrance Chemoderm 6411; Fragrance Cream; Fragrance Cream No. 73457; Fragrance Cs-28197; Fragrance Felton 066m; Fragrance Firmenich 47373; Fragrance Givaudan Ess 9090/1c; Fragrance H-6540; Fragrance Herbal 10396; Fragrance Nj-1085; Fragrance P O Fl-147; Fragrance Pa 52805; Fragrance Pera Derm D; Fragrance Rbd-9819; Fragrance Shaw Mudge U-7776; Fragrance Tf 044078; Fragrance Ungerer Honeysuckle K 2771; Fragrance Ungerer N5195; Fructose; Fumaric Acid; Fumaryl Diketopiperazine; Gadolinium Oxide; Galactose; Gamma Cyclodextrin; Gelatin; Gelatin 200 Bloom; Gelatin Capsule, Hard; Gelatin Type A, Pork; Gelatin, Crosslinked; Gelfoam Sponge; Gellan Gum (Low Acyl); Gelucire 33/01; Gelva 737; Gentisic Acid; Gentisic Acid Ethanolamide; Gentisic Acid Ethanolamine; Ginger; Gluceptate Sodium; Gluceptate Sodium Dihydrate; Gluconolactone; Glucuronic Acid; Glutamic Acid Hydrochloride; Glutamic Acid, Dl-; Glutathione; Glycerin; Glycerin Polymer Solution I-137; Glycerin Polymer Solution Im-137; Glycerol Ester Of Hydrogenated Rosin; Glyceryl 1-Stearate; Glyceryl Behenate/Eicosadioate; Glyceryl Caprylate; Glyceryl Dibehenate; Glyceryl Distearate; Glyceryl Isostearate; Glyceryl Laurate; Glyceryl Monostearate; Glyceryl Oleate; Glyceryl Oleate/Propylene Glycol; Glyceryl Palmitate; Glyceryl Palmitostearate; Glyceryl Ricinoleate; Glyceryl Stearate - Laureth-23; Glyceryl Stearate Se; Glyceryl Stearate/Peg Stearate; Glyceryl Stearate/Peg-100 Stearate; Glyceryl Stearate/Peg-40 Stearate; Glyceryl Stearate-Stearamidoethyl Diethylamine; Glyceryl Trioleate; Glycine; Glycine Hydrochloride; Glycol Distearate; Glycol Stearate; Glycyrrhizin; Green Starch Blend; Guanidine Hydrochloride; Guar Gum; Guinea Green B; Gum Base, Chewing; Hair Conditioner (18n195-1m); Heptane; Hetastarch; Hexane; Hexylene Glycol; Hexylresorcinol; High Density Polyethylene; High Fructose Corn Syrup; Histidine; Hornstedtia Costata Seed; Human Albumin Microspheres; Hyaluronate Sodium; Hydrocarbon; Hydrocarbon Gel, Plasticized; Hydrochloric Acid; Hydrocortisone; Hydrogel Polymer; Hydrogen Peroxide; Hydrogenated Castor Oil; Hydrogenated Coconut Oil; Hydrogenated Cottonseed Oil; Hydrogenated Palm Oil; Hydrogenated Palm/Palm Kernel Oil Peg-6 Esters; Hydrogenated Polybutene 635-690; Hydrogenated Soybean Lecithin; Hydrogenated Soybean Oil; Hydrogenated Starch Hydrolysate;

Hydrogenated Tallow Acid; Hydrolyzed Soy Protein (Enzymatic; 2000 Mw); Hydroxyethyl Cellulose; Hydroxyethyl Cellulose (140 Mpa.S At 5%); Hydroxyethyl Cellulose (5000 Mpa.S At 1%); Hydroxyethylpiperazine Ethane Sulfonic Acid; Hydroxymethyl Cellulose; Hydroxyoctacosanyl Hydroxystearate; Hydroxyprogesterone Caproate; Hydroxypropyl .Beta.-Cyclodextrin; Hydroxypropyl .Gamma.-Cyclodextrin; Hydroxypropyl Cellulose (Type H); Hydroxypropyl Cellulose (Type L); Hydroxypropyl Cellulose, Low Substituted; Hypromellose 2208 (100 Mpa.S); Hypromellose 2208 (100000 Mpa.S); Hypromellose 2208 (15000 Mpa.S); Hypromellose 2208 (3 Mpa.S); Hypromellose 2208 (4000 Mpa.S); Hypromellose 2208 (60000 Mpa.S); Hypromellose 2906 (4000 Mpa.S); Hypromellose 2910 (15 Mpa.S); Hypromellose 2910 (15000 Mpa.S); Hypromellose 2910 (3 Mpa.S); Hypromellose 2910 (4000 Mpa.S); Hypromellose 2910 (5 Mpa.S); Hypromellose 2910 (50 Mpa.S); Hypromellose 2910 (6 Mpa.S); Hypromellose Acetate Succinate; Hypromellose Acetate Succinate 06081224 (3 Mm2/S); Hypromellose Phthalate; Hypromellose Phthalate (24% Phthalate, 55 Cst); Hypromellose Phthalate (31% Phthalate, 40 Cst); Hypromelloses; Hystrene; Icodextrin; Imidurea; Indigotindisulfonate Sodium; Ink Black 2271; Ink Black A-10464; Ink Black A-10527; Ink Black Fge-1386; Ink Black Gg-606; Ink Black S-1-8100-Hv; Ink Black Sw-9007; Ink Black Sw-9008; Ink Black Sw-9009; Ink Black Sw-9010; Ink Blue And Yellow Imprint Gg-823; Ink Blue Black A-10463; Ink Blue Black A-9371; Ink Blue S-1-10551; Ink Blue S-1-4118; Ink Blue Tek Print Sb-6029; Ink Blue Tekprint Sb-6008; Ink Blue Videojet V496-D; Ink Dark Yellow And Yellow Imprint Gg-824; Ink Edible Black; Ink Edible Blue; Ink Edible Brown; Ink Edible Gray; Ink Edible Orange; Ink Edible Pink; Ink Edible Red; Ink Edible Red A-8032; Ink Edible White; Ink Fine Black 2202c; Ink Fine Black 2212; Ink Flexographic Pink; Ink Green A-10454; Ink Green A-10629; Ink Orange And Yellow Imprint Gg-822; Ink Pink Imprinting Sb-1003; Ink Purple Tekprint Sb-7007; Ink Red 5-1-9034; Ink Red A-8032; Ink Red And Aqua Imprinting Gg-827; Ink Red And Caramel Imprinting Gg-825; Ink Red Imprinting Gg-826; Ink S-1-7085; Ink Thinner; Ink White A-8154; Ink White S-1-7075; Ink White Sb-0007p; Ink White Sw-0012; Ink White Tek Print Sb-007p; Ink/Polyethylene Terephthalate/Aluminum/Polyethylene/Sodium Polymethacrylate/Ethylene Vinylacetate Copolymer; Invert Sugar; Invert Syrup, Medium; Iobenguane; Iodine; Iodoxamic Acid; Iofetamine Hydrochloride; Iron Oxide Beige; Isobutane; Isobutyl Alcohol; Isoceteth-20; Isoleucine; Isomalt; Isooctyl Acrylate; Isooctyl

Acrylate/Acrylamide/Vinyl Acetate Copolymer, Kollidon Va 64 Polymer; Isopropyl Alcohol; Isopropyl Isostearate; Isopropyl Myristate; Isopropyl Myristate - Myristyl Alcohol; Isopropyl Palmitate; Isopropyl Stearate; Isostearic Acid; Isostearyl Alcohol; Jelene; Kaolin; Karaya Gum; Karion 83 (D-Sorbitol Content 19-25%); Kathon Cg; Kathon Cg Ii; Lactic Acid, Dl-; Lactic Acid, L-; Lactic Acid; Lactitol Monohydrate; Lactobionic Acid; Lactoferrin, Bovine; Lactose Monohydrate; Lactose Monohydrate - Cellulose, Microcrystalline; Lactose; Laneth; Lanolin; Lanolin Alcohol - Mineral Oil; Lanolin Alcohols; Lanolin Cholesterols; Lanolin Nonionic Derivatives; Lanolin, Ethoxylated; Lauralkonium Chloride; Lauramine Oxide; Laurdimonium Hydrolyzed Animal Collagen; Laureth Sulfate; Laureth-2; Laureth-23; Laureth-4; Lauric Diethanolamide; Lauric/Myristic Diethanololamide; Lauroyl Polyoxylglycerides; Lauroyl Sarcosine; Lauryl Lactate; Lauryl Sulfate; Lavandula Angustifolia Flowering Top; Lecithin; Lecithin Unbleached; Lecithin, Soybean; Lemon Oil; Leucine; Levomenthol; Levulinic Acid; Lidofenin; Light Green Cf Yellowish; Light Mineral Oil; Ligroin; Lime (Calcium Oxide); Lime Oil; Limonene, (+/-)-; Linoleoyl Macrogolglycerides; Lipocol Sc-15; Liquefied Petroleum Gas; Locust Bean Gum; Lubritab; Ludipress; Lysine; Lysine Acetate; Lysine Monohydrate; Magnesium Acetate; Magnesium Aluminum Silicate; Magnesium Aluminum Silicate Type Iia; Magnesium Aspartate; Magnesium Carbonate; Magnesium Chloride; Magnesium Citrate; Magnesium Hydroxide; Magnesium Nitrate; Magnesium Oxide; Magnesium Phosphate, Tribasic, Pentahydrate; Magnesium Silicate; Magnesium Stearate; Magnesium Sulfate Anhydrous; Magnesium Sulfate; Magnesium Tartrate; Magnesium Trisilicate; Maleic Acid; Malic Acid; Malic Acid, L-; Maltitol; Maltodextrin; Maltol; Maltose; Maltose Anhydrous; Mandarin Oil; Mannitol; Mannose, D-; Maprofix; Mebrofenin; Medical Antifoam Emulsion C; Medical Antiform A-F Emulsion; Medium-Chain Triglycerides; Medronate Disodium; Medronic Acid; Meglumine; Melojel; Menthol; Metacresol; Metanil Yellow; Metaphosphoric Acid; Methacrylic Acid; Methacrylic Acid - Ethyl Acrylate Copolymer (1:1) Type A; Methacrylic Acid - Methyl Methacrylate Copolymer (1:1); Methacrylic Acid - Methyl Methacrylate Copolymer (1:2); Methacrylic Acid Copolymer; Methanesulfonic Acid; Methionine; Methoxy Peg-16; Methyl Acrylate - Methyl Methacrylate; Methyl Alcohol; Methyl Chloride; Methyl Ethyl Ketone; Methyl Gluceth-10; Methyl Gluceth-20; Methyl Glucose Sesquistearate; Methyl Hydroxyethyl Cellulose; Methyl Laurate; Methyl Pyrrolidone; Methyl Salicylate; Methyl

Stearate; Methylated Spirits; Methylboronic Acid; Methylcellulose (15 Mpa.S); Methylcellulose (1500 Mpa.S); Methylcellulose (400 Mpa.S); Methylcellulose (4000 Mpa.S); Methylcelluloses; Methylchloroisothiazolinone; Methylene Blue; Methylene Chloride; Methylisothiazolinone; Methylparaben; Methylparaben Sodium; Methylphenidate; Microcrystalline Wax; Milk Protein Concentrate; Mineral Oil; Miripirium Chloride; Misoprostol; Mistron Spray Talc; Modified Corn Starch (1-Octenyl Succinic Anhydride); Mono And Diglyceride; Monoethanolamine; Monoglyceride Citrate; Monoglycerides; Monosodium Citrate; Monosodium Glutamate; Monostearyl Citrate; Monothioglycerol; Montan Wax; Multisterol Extract; Muscatel Wine; Myristic Acid; Myristyl Alcohol; Myristyl Lactate; Myvacet Type 5-00; N-(Carbonyl-Methoxypolyethylene Glycol 2000)-1,2-Distearoyl-Sn-Glycero-3-Phosphoethanolamine; N-(Carbonyl-Methoxypolyethylene Glycol 2000)-Distearoyl-Glycerophosphoethanolamine, Sodium Salt; N,N-Dimethylacetamide; Naphtha; Naphthol Blue Black; Neohesperidin Dihydrochalone; Neotame; Neutral Oil; Niacinamide; Nioxime; Nipasept; Nipastat; Nitric Acid; Nitrogen; Nonoxynol Iodine; Nonoxynol-15; Nonoxynol-9; Non-Pareil Seeds; Non-Pareil Seeds Blue; Non-Pareil Seeds Orange; Non-Pareil Seeds White; Norethindrone; Norflurane; Nutmeg Oil; Oatmeal; Octadecene-1/Maleic Acid Copolymer; Octanoic Acid; Octisalate; Octoxynol-1; Octoxynol-40; Octoxynol-9; Octreotide; Octyldodecanol; Octylphenol Polymethylene; Oil Cream Soda; Oil Orange Ss; Oil, Hydrogenated; Oleic Acid; Oleth-10/Oleth-5; Oleth-2; Oleth-20; Oleyl Alcohol; Oleyl Oleate; Oleyl Polyethylene Glycol Glyceride; Olive Oil; Opacoat Na2123; Opacoat Na2203; Opacoat Na4108 Blue; Opacoat Na4711 Lavender; Opacoat Na7013 Clear; Opacode A-10450 Black; Opacode A-10509 Black; Opacode Ns-78-10013-N; Opacode Ns-78-17502 Gray; Opacode Ns-78-17821 Wb Black; Opacode Ns-78-8000 Black; Opacode Ns-78-8001; Opacode Nsp-78-17734 Black; Opacode S-1-13001 Orange; Opacode S-1-15034-Fd Red; Opacode S-1-15038 Red; Opacode S-1-16507; Opacode S-1-1666 Red; Opacode S-1-1666-M Red; Opacode S-1-1681 Red; Opacode S-1-17706 Black; Opacode S-1-17711 Black; Opacode S-1-17734 Black; Opacode S-1-17749 Black; Opacode S-1-17762 Black; Opacode S-1-17797 Black; Opacode S-1-17822 Black; Opacode S-1-17823 Black; Opacode S-1-18025 White; Opacode S-1-26514 Brown; Opacode S-1-27794 Black; Opacode S-1-3110 Green; Opacode S-1-3171 Green; Opacode S-1-4124 Blue; Opacode S-1-4157; Opacode S-1-4159 Black; Opacode S-1-4160 Blue; Opacode S-1-4172 Blue; Opacode S-1-4172m Blue; Opacode S-1-4362; Opacode

S-1-7020; Opacode S-1-7077; Opacode S-1-7078; Opacode S-1-7085 White; Opacode S-1-7090 White; Opacode S-1-800hv Black; Opacode S-1-8025 Black; Opacode S-1-8081 Black; Opacode S-1-8090 Black; Opacode S-1-8092 Black; Opacode S-1-8093 Black; Opacode S-1-8094 Black; Opacode S-1-8095; Opacode S-1-8100-Hv Black; Opacode S-1-8105 Black; Opacode S-1-8106 Black; Opacode S-1-8109 Black; Opacode S-1-8110 Black; Opacode S-1-8114 Black; Opacode S-1-8115 Black; Opacode S-1-8152hv Black; Opacode S-1-8814 Black; Opacode S-1-8815 Black; Opacode S-1-9009 Brown; Opacode S-1-9032; Opacode S-1-9037 Brown; Opacode S-1-9048c; Opacode S-1-9460hv Brown; Opacode S-19-7014 White; Opacode S-8-20931; Opacode Sb-4028 Green; Opacode Wb Ns-78-10521 Blue; Opacode Wb Ns-78-17715 Black; Opacode Wb Ns-78-18001 White; Opacode Wb Nsp-78-18022 White; Opadry 00a28646; Opadry 00b53815 Orange; Opadry 00b57513 Grey; Opadry 00f44042 Red; Opadry 02a82904 Yellow; Opadry 02b14941 Pink; Opadry 02b22429 Yellow; Opadry 02b32413 Yellow; Opadry 02b58839 White; Opadry 02b94016 Pink; Opadry 02f34337 Pink; Opadry 02f54181 Pink; Opadry 02g22555 Yellow; Opadry 02g24523 Pink; Opadry 02g26637 Brown; Opadry 02g28619 White; Opadry 02g59011 Clear; Opadry 02-H-22703 Yellow; Opadry 03a 58900 White; Opadry 03a14309 Pink; Opadry 03b11434 Green; Opadry 03b12878 Yellow; Opadry 03b12896 Yellow; Opadry 03b12914 Yellow; Opadry 03b14424 Pink; Opadry 03b14436 Pink; Opadry 03b14899 Pink; Opadry 03b16083 Maroon; Opadry 03b17426 Beige; Opadry 03b17495 Beige; Opadry 03b17618 Gray; Opadry 03b20024 Purple; Opadry 03b20556 Blue; Opadry 03b21517 Green; Opadry 03b22426 Yellow; Opadry 03b23523 Orange; Opadry 03b24562 Peach; Opadry 03b28796 White; Opadry 03b32034 Yellow; Opadry 03b34239 Pink; Opadry 03b34399 Pink; Opadry 03b50899 Blue; Opadry 03b510003 Green; Opadry 03b53850 Orange; Opadry 03b54138 Pink; Opadry 03b54180 Pink; Opadry 03b54504 Pink; Opadry 03b54573 Pink; Opadry 03b54588 Pink; Opadry 03b54955 Pink; Opadry 03b56518 Brown; Opadry 03b56982 Brown; Opadry 03b57310 Brown; Opadry 03b57520 Grey; Opadry 03b57631 Grey; Opadry 03b58902 White; Opadry 03b58930 White; Opadry 03b58965 White; Opadry 03b68903 White; Opadry 03b80829 Blue; Opadry 03b80969 Blue; Opadry 03b82316 Yellow; Opadry 03b82419 Yellow; Opadry 03b82836 Yellow; Opadry 03b82849 Yellow; Opadry 03b82943 Yellow; Opadry 03b84681 Pink; Opadry 03b84755 Pink; Opadry 03b86585 Brown; Opadry 03b86625 Brown; Opadry 03b86636 Brown; Opadry 03b86737 Brown; Opadry 03b86811 Brown; Opadry

03b86891 Brown; Opadry 03b86892 Brown; Opadry 03c34219 Pink; Opadry 03f12920 Yellow; Opadry 03f12967 Yellow; Opadry 03f13325 Orange; Opadry 03f14895 Pink; Opadry 03f42192 Yellow; Opadry 03f43159 Brown; Opadry 03f51681 Green; Opadry 03f540000 Pink; Opadry 03f54568 Pink; Opadry 03f565001 Brown; Opadry 03f57311 Brown; Opadry 03f58741 White; Opadry 03f58991 White; Opadry 03f59016 Clear; Opadry 03f82329 Yellow; Opadry 03f82604 Yellow; Opadry 03f82726 Yellow; Opadry 03f82788 Yellow; Opadry 03f84641 Pink; Opadry 03f84782 Pink; Opadry 03f84793 Pink; Opadry 03f86762 Brown; Opadry 03f86776 Brown; Opadry 03f86845 Brown; Opadry 03f86990 Brown; Opadry 03g24389 Pink; Opadry 03g82464 Yellow; Opadry 03g82490 Yellow; Opadry 03j18312 White; Opadry 03k14881 Pink; Opadry 03k29121 Clear; Opadry 03k50891 Blue; Opadry 03k51211 Green; Opadry 03k52543 Yellow; Opadry 03k54121 Pink; Opadry 03k80846 Blue; Opadry 04e28779 White; Opadry 04f50603 Blue; Opadry 04f50702 Blue; Opadry 04f51279 Green; Opadry 04f52565 Yellow; Opadry 04f53544 Orange; Opadry 04f58804 White; Opadry 05b10446 Purple; Opadry 05b10457 Purple; Opadry 05b11552 Green; Opadry 05b11781 Green; Opadry 05b12337 Yellow; Opadry 05b15325 Red; Opadry 05b17055 Tan; Opadry 06f32500 Yellow; Opadry 06f34520 Pink; Opadry 06f34521 Orange; Opadry 06f34522 Pink; Opadry 06f34523 Pink; Opadry 12b58900 White; Opadry 12f20984 Blue; Opadry 12f21129 Green; Opadry 12f22609 Yellow; Opadry 12j18255 White; Opadry 13b50159 Purple; Opadry 13b50780 Blue; Opadry 13b51260 Green; Opadry 13b52329 Yellow; Opadry 13b58802 White; Opadry 13b58894 White; Opadry 13b80922 Blue; Opadry 13b82555 Yellow; Opadry 13f51381 Green; Opadry 13f52194 Yellow; Opadry 13f52195 Yellow; Opadry 13f54198 Pink; Opadry 13f58866 White; Opadry 13h52750 Yellow; Opadry 13h52754 Yellow; Opadry 13h54756 Pink; Opadry 13h54757 Pink; Opadry 13k52177 Yellow; Opadry 13m530001 Orange; Opadry 13m565001 Brown; Opadry 13m86920 Brown; Opadry 15b110003 Green; Opadry 15b11947 Green; Opadry 15b13335 Orange; Opadry 15b20780 Blue; Opadry 15b21340 Green; Opadry 15b22275 Yellow; Opadry 15b24473 Pink; Opadry 15b24879 Pink; Opadry 15b28665 White; Opadry 15b50612 Blue; Opadry 15b52000 Yellow; Opadry 15b52070 Yellow; Opadry 15b53449 Orange; Opadry 15b58810 White; Opadry 15b86703 Brown; Opadry 15b91211 Green; Opadry 15b92484 Yellow; Opadry 15b96558 Brown; Opadry 16b38982 White; Opadry 16b5900 Yellow; Opadry 20014832 Pink; Opadry 20a28569 White; Opadry 20a52229 Yellow; Opadry 20a52560 Yellow; Opadry 20a52900

Yellow; Opadry 20a54211 Pink; Opadry 20a54239 Pink; Opadry 20a54614 Pink; Opadry 20a54616 Pink; Opadry 20a54900 Pink; Opadry 20a54901 Pink; Opadry 20a56500 Brown; Opadry 20a56694 Brown; Opadry 20a56788 Brown; Opadry 20a58806 White; Opadry 20a58916 White; Opadry 20a59015 Clear; Opadry 20a91487 Green; Opadry 20a99171 Blue; Opadry 20a99172 Blue; Opadry 20b11521 Green; Opadry 20b17583 Gray; Opadry 20b50135 Purple; Opadry 20b50184 Purple; Opadry 20b97160 Beige; Opadry 20c15347 Red; Opadry 20h52619 Yellow; Opadry 20h58983 White; Opadry 21k84964 Pink; Opadry 31f20963 Blue; Opadry 31f32870 Yellow; Opadry 32f540014 Pink; Opadry 32k14834 Pink; Opadry 32k23123 Orange; Opadry 33g12976 Yellow; Opadry 33g25171 Brick Red; Opadry 40l14278 Pink; Opadry 80w 12319 Yellow; Opadry 80w22657 Amb Yellow; Opadry 80w-93032 Amb Orange; Opadry 85f14999 Pink; Opadry 85f19250 Clear; Opadry 85f21445 Green; Opadry 85f21446 Green; Opadry 85f21450 Green; Opadry 85g689183 White; Opadry 85g93096 Orange; Opadry Amb 80w52110 Yellow; Opadry Amb 80w62680 Yellow; Opadry Amb 80w62681 Yellow; Opadry Amb 80w64837 Pink; Opadry Amb 80w68912 White; Opadry Amb Oy-B-28920 White; Opadry I 03b22409 Yellow; Opadry I 03b23197 Orange; Opadry I 03b24658 Pink; Opadry Ii 03b10903 Blue; Opadry Ii 30f84515 Pink; Opadry Ii 31f22088 Yellow; Opadry Ii 31f23111 Orange; Opadry Ii 31f24128 Pink; Opadry Ii 31f24239 Pink; Opadry Ii 31f27625 Gray; Opadry Ii 31f32090 Yellow; Opadry Ii 31f58914 White; Opadry Ii 31k34575 Pink; Opadry Ii 31k34581 Pink; Opadry Ii 31k52633 Yellow; Opadry Ii 31k84972 Pink; Opadry Ii 32b10817 Blue; Opadry Ii 32f28553 White; Opadry Ii 32f505001 Blue; Opadry Ii 32f540002 Pink; Opadry Ii 32f540012 Pink; Opadry Ii 32f58900 White; Opadry Ii 32f84835 Pink; Opadry Ii 32k10054 Purple; Opadry Ii 32k12160 Yellow; Opadry Ii 32k12884 Yellow; Opadry Ii 32k12942 Yellow; Opadry Ii 32k12968 Yellow; Opadry Ii 32k13357 Orange; Opadry Ii 32k13699 Orange; Opadry Ii 32k14826 Pink; Opadry Ii 32k14827 Pink; Opadry Ii 32k14833 Pink; Opadry Ii 32k15649 Red; Opadry Ii 32k16706 Brown; Opadry Ii 32k17089 Tan; Opadry Ii 32k17573 Gray; Opadry Ii 33f28627 White; Opadry Ii 33g10148 Purple; Opadry Ii 33g10907 Blue; Opadry Ii 33g11635 Green; Opadry Ii 33g11938 Green; Opadry Ii 33g28435 White; Opadry Ii 33g28707 White; Opadry Ii 33g32605 Yellow; Opadry Ii 33g34594 Pink; Opadry Ii 33g92112 Yellow; Opadry Ii 39b18529 White; Opadry Ii 40 L14235 Pink; Opadry Ii 40 L17589 Gray; Opadry Ii 40014876 Pink; Opadry Ii 40b12994 Beige; Opadry Ii 40b97172 Yellow; Opadry Ii 40c10881 Blue;

Opadry Ii 40c13396 Orange; Opadry Ii 40c18303 White; Opadry Ii 40l10412 Purple; Opadry Ii 40l10884 Blue; Opadry Ii 40l11438 Green; Opadry Ii 40l11588 Green; Opadry Ii 40l12917 Yellow; Opadry Ii 40l12979 Yellow; Opadry Ii 40l13950 Orange; Opadry Ii 40l14190 Pink; Opadry Ii 40l14336 Pink; Opadry Ii 40l14836 Pink; Opadry Ii 40l17427 Beige; Opadry Ii 40l17587 Gray; Opadry Ii 40l92058 Yellow; Opadry Ii 40l93159 Orange; Opadry Ii 40o93122 Orange; Opadry Ii 45f22481 Yellow; Opadry Ii 45f24512 Yellow; Opadry Ii 49b10882 Blue; Opadry Ii 49b13460 Orange; Opadry Ii 49b16716 Brown; Opadry Ii 57u92682 Yellow; Opadry Ii 57u97337 Tan; Opadry Ii 57u97508 Gray; Opadry Ii 85f10129 Purple; Opadry Ii 85f10245 Purple; Opadry Ii 85f10447 Purple; Opadry Ii 85f10919 Blue; Opadry Ii 85f11881 Green; Opadry Ii 85f12345 Yellow; Opadry Ii 85f12372 Yellow; Opadry Ii 85f12375 Yellow; Opadry Ii 85f13751 Orange; Opadry Ii 85f13980 Orange; Opadry Ii 85f140024 Pink; Opadry Ii 85f14452 Pink; Opadry Ii 85f16876 Brown; Opadry Ii 85f18378 White; Opadry Ii 85f18422 White; Opadry Ii 85f18442 White; Opadry Ii 85f22055 Yellow; Opadry Ii 85f22075 Yellow; Opadry Ii 85f22079 Yellow; Opadry Ii 85f23470 Pink; Opadry Ii 85f23499 Orange; Opadry Ii 85f23976 Orange; Opadry Ii 85f24033 Pink; Opadry Ii 85f24035 Pink; Opadry Ii 85f24307 Pink; Opadry Ii 85f28751 White; Opadry Ii 85f32121 Yellow; Opadry Ii 85f32157 Yellow; Opadry Ii 85f32547 Yellow; Opadry Ii 85f32782 Yellow; Opadry Ii 85f34610 Pink; Opadry Ii 85f62534 Yellow; Opadry Ii 85f64712 Pink; Opadry Ii 85f64732 Pink; Opadry Ii 85f66775 Brown; Opadry Ii 85f66815 Brown; Opadry Ii 85f90093 Purple; Opadry Ii 85f91135 Green; Opadry Ii 85f91136 Green; Opadry Ii 85f91137 Green; Opadry Ii 85f91238 Green; Opadry Ii 85f92008 Yellow; Opadry Ii 85f92204 Yellow; Opadry Ii 85f92621 Yellow; Opadry Ii 85f92716 Yellow; Opadry Ii 85f93042 Orange; Opadry Ii 85f93314 Orange; Opadry Ii 85f94172 Pink; Opadry Ii 85f94552 Pink; Opadry Ii 85f97458 Beige; Opadry Ii 85f97531 Gray; Opadry Ii 85f97533 Gray; Opadry Ii 85f99126 Blue; Opadry Ii 85g20583 Blue; Opadry Ii 85g56434 Maroon; Opadry Ii 85g56867 Brown; Opadry Ii 85g57680 Grey; Opadry Ii 85g62591 Yellow; Opadry Ii Oy-L-22903; Opadry Ii Oy-L-23028 Orange; Opadry Ii Oy-L-24802 Pink; Opadry Ii Oy-L-24803 Pink; Opadry Ii Oy-L-24808; Opadry Ii Oy-L-28900 White; Opadry Ii Oy-L-32920; Opadry Ii Pink 85g94027; Opadry Ii Pink 85g94065; Opadry Ii Red 85g94101; Opadry Ii Y-19-19054 Clear; Opadry Ii Y-19-7483 Clear; Opadry Ii Y-22-10274 Lavender; Opadry Ii Y-22-10508 Blue; Opadry Ii Y-22-10519 Blue; Opadry Ii Y-22-10538 Blue; Opadry Ii Y-22-10702 Blue; Opadry Ii Y-22-10764

Blue; Opadry Ii Y-22-11184 Green; Opadry Ii Y-22-11210 Green; Opadry Ii Y-22-11251 Green; Opadry Ii Y-22-12098 Yellow; Opadry Ii Y-22-12553 Yellow; Opadry Ii Y-22-12664 Yellow; Opadry Ii Y-22-12718 Yellow; Opadry Ii Y-22-12720 Pale Yellow; Opadry Ii Y-22-12780 Yellow; Opadry Ii Y-22-13034 Orange; Opadry Ii Y-22-13061 Orange; Opadry Ii Y-22-13083 Orange; Opadry Ii Y-22-13089 Orange; Opadry Ii Y-22-13167 Orange; Opadry Ii Y-22-13526 Orange; Opadry Ii Y-22-13577 Flesh; Opadry Ii Y-22-13603 Orange; Opadry Ii Y-22-13613 Orange; Opadry Ii Y-22-13663 Orange; Opadry Ii Y-22-14001 Pink; Opadry Ii Y-22-14701 Pink; Opadry Ii Y-22-15061; Opadry Ii Y-22-16562 Brown; Opadry Ii Y-22-16577 Brown; Opadry Ii Y-22-17025 Beige; Opadry Ii Y-22-17165 Beige; Opadry Ii Y-22-17221 Beige; Opadry Ii Y-22-17279 Beige; Opadry Ii Y-22-17515 Gray; Opadry Ii Y-22-18238 White; Opadry Ii Y-22-7719 White; Opadry Ii Y-30-10671a Blue; Opadry Ii Y-30-10701 Blue; Opadry Ii Y-30-12705 Yellow; Opadry Ii Y-30-12736a Yellow; Opadry Ii Y-30-12737a Yellow; Opadry Ii Y-30-12842a Yellow; Opadry Ii Y-30-12863a Yellow; Opadry Ii Y-30-13091 Orange; Opadry Ii Y-30-13242a Orange; Opadry Ii Y-30-13616 Orange; Opadry Ii Y-30-13642a Orange; Opadry Ii Y-30-14700a Pink; Opadry Ii Y-30-14758 Pink; Opadry Ii Y-30-17295a Tan; Opadry Ii Y-30-17296a Beige; Opadry Ii Y-30-17340a Beige; Opadry Ii Y-30-17528 Gray; Opadry Ii Y-30-18037 White; Opadry Ii Ys-1-12524a; Opadry Ii Ys-1-19025a Clear; Opadry Ii Ys-1-7006 Clear; Opadry Ii Ys-22-13571 Orange; Opadry Ii Ys-22-17227a Beige; Opadry Ii Ys-22-18096 White; Opadry Ii Ys-30-12788a Yellow; Opadry Ii Ys-30-13641a Orange; Opadry Ii Ys-30-14743a Pink; Opadry Ii Ys-30-14777a Pink; Opadry Ii Ys-30-17265a Beige; Opadry Ii Ys-30-17271a Beige; Opadry Ii Ys-30-18105 White; Opadry O2b24864 Pink; Opadry Os-F-32867 Yellow; Opadry Oy-22959 Yellow; Opadry Oy-23050 Orange; Opadry Oy-27202 Tan; Opadry Oy-27301 Butterscotch; Opadry Oy-3736 Butterscotch; Opadry Oy-38924 White; Opadry Oy-52945 Yellow; Opadry Oy-54937 Pink; Opadry Oy-58900 White; Opadry Oy-7240 Clear; Opadry Oy-7300 White; Opadry Oy-8764h Orange; Opadry Oy-B-28920 White; Opadry Oy-B-32830; Opadry Oy-Gm-28900; Opadry Oy-L-27204 Tan; Opadry Oy-L-27205 Beige; Opadry Oy-L-28906; Opadry Oy-L-34836 Pink; Opadry Oy-Ls-20921 Blue; Opadry Oy-Ls-23016 Orange; Opadry Oy-Ls-23018 Orange; Opadry Oy-Ls-28908 White; Opadry Oy-Ls-28914 White; Opadry Oy-Ls-33111 Orange; Opadry Oy-Ls-37200 Buff; Opadry Oy-Ls-58900 White; Opadry Oy-S-1387 Pink; Opadry Oy-S-20007 Purple; Opadry Oy-S-20900 Blue; Opadry Oy-S-20901

Blue; Opadry Oy-S-21001 Green; Opadry Oy-S-21027 Green; Opadry Oy-S-22802 Yellow; Opadry Oy-S-22815 Yellow; Opadry Oy-S-22907 Yellow; Opadry Oy-S-23049 Orange; Opadry Oy-S-24900 Pink; Opadry Oy-S-24972 Pink; Opadry Oy-S-26529 Red; Opadry Oy-S-26530 Red; Opadry Oy-S-28833 White; Opadry Oy-S-28849 White; Opadry Oy-S-28876 White; Opadry Oy-S-28924 White; Opadry Oy-S-29019 Clear; Opadry Oy-S-30013 Purple; Opadry Oy-S-30913 Blue; Opadry Oy-S-30953 Blue; Opadry Oy-S-32921 Yellow; Opadry Oy-S-32986 Yellow; Opadry Oy-S-33016 Orange; Opadry Oy-S-34800 Pink; Opadry Oy-S-34817 Pink; Opadry Oy-S-34923 Pink; Opadry Oy-S-34995 Pink; Opadry Oy-S-38928; Opadry Oy-S-38944 White; Opadry Oy-S-52902 Yellow; Opadry Oy-S-53010 Orange; Opadry Oy-S-54902 Pink; Opadry Oy-S-54904 Pink; Opadry Oy-S-6937 Pink; Opadry Oy-S-7322 White; Opadry Oy-S-7399 White; Opadry Oy-S-9476 Brown; Opadry Oy-S-9603 White; Opadry Oy-Sr-34907; Opadry S-1-1666 Red; Opadry Y-1-1518 Pink; Opadry Y-1-17272a Beige; Opadry Y-1-17517 Gray; Opadry Y-1-2102 Yellow; Opadry Y-1-2132 Yellow; Opadry Y-1-2516 Orange; Opadry Y-1-2553 Orange; Opadry Y-1-2605 Beige; Opadry Y-1-3211 Green; Opadry Y-1-4205 Blue; Opadry Y-1-4234 Blue; Opadry Y-1-7000 White; Opadry Y-1-7000b White; Opadry Y-1-7000h White; Opadry Y-1-7006 Blue; Opadry Y-1-7503 Gray; Opadry Y-22-10501 Blue; Opadry Y-22-12721 Light Yellow; Opadry Y-22-12751 Yellow; Opadry Y-22-13558 Orange; Opadry Y-22-14525 Pink; Opadry Y-22-15008 Red; Opadry Y-22-15119 Red; Opadry Y-22-18238 White; Opadry Y-30-13168a Orange; Opadry Y-30-14565 Pink; Opadry Y-30-17267 Beige; Opadry Y-33g-27241 Beige; Opadry Y-5-10272a Lavender; Opadry Y-5-10300 Lavender; Opadry Y-5-10670 Blue; Opadry Y-5-12539 Yellow; Opadry Y-5-12544a Yellow; Opadry Y-5-12584 Yellow; Opadry Y-5-13512 Orange; Opadry Y-5-13513 Orange; Opadry Y-5-14530a Pink; Opadry Y-5-1727 Red; Opadry Y-5-2028 Yellow; Opadry Y-5-2042 Yellow; Opadry Y-5-2086 Yellow; Opadry Y-5-2312 Yellow; Opadry Y-5-2328 Orange; Opadry Y-5-2371 Orange; Opadry Y-5-2394 Orange; Opadry Y-5-2450 Orange; Opadry Y-5-2644 Beige; Opadry Y-5-2646 Beige; Opadry Y-5-3140 Green; Opadry Y-5-3171 Green; Opadry Y-5-3193 Green; Opadry Y-5-3296 Green; Opadry Y-5-4129 Blue; Opadry Y-5-4270 Blue; Opadry Y-5-4287 Blue; Opadry Y-5-4295 Blue; Opadry Y-5-6233 Light Orange; Opadry Y-5-6301 Yellow; Opadry Y-5-6308; Opadry Y-5-7058 White; Opadry Y-5-7068 White; Opadry Y-5-7072 White; Opadry Y-5-7524 Grey; Opadry Y-5-8050 Black; Opadry Y-5-9006 Brown; Opadry Y-5-9020

Brown; Opadry Yellow; Opadry Yps-7-2127; Opadry Ys-1-003 White; Opadry Ys-1-10010 Purple; Opadry Ys-1-10291 Lavender; Opadry Ys-1-10523a Blue; Opadry Ys-1-10525 Blue; Opadry Ys-1-10533a; Opadry Ys-1-10542a Blue; Opadry Ys-1-10547a Blue; Opadry Ys-1-10563 Blue; Opadry Ys-1-10613a Blue; Opadry Ys-1-10618; Opadry Ys-1-10629; Opadry Ys-1-10654a Blue; Opadry Ys-1-10682 Blue; Opadry Ys-1-10690a Blue; Opadry Ys-1-10699 Blue; Opadry Ys-1-10745 Blue; Opadry Ys-1-10748a Light Blue; Opadry Ys-1-10755 Blue; Opadry Ys-1-10783a Blue; Opadry Ys-1-11000 Pink; Opadry Ys-1-11051 Green; Opadry Ys-1-11060 Green; Opadry Ys-1-1107 Green; Opadry Ys-1-11075a Green; Opadry Ys-1-11113 Green; Opadry Ys-1-11171 Green; Opadry Ys-1-11234 Green; Opadry Ys-1-11305 Green; Opadry Ys-1-11369 Green; Opadry Ys-1-1246 Pink; Opadry Ys-1-1252 Pink; Opadry Ys-1-12524a Yellow; Opadry Ys-1-12525a Yellow; Opadry Ys-1-12526a Yellow; Opadry Ys-1-12529 Yellow; Opadry Ys-1-12541 Yellow; Opadry Ys-1-1256-A Yellow; Opadry Ys-1-12573 Yellow; Opadry Ys-1-12581 Yellow; Opadry Ys-1-1262 Pink; Opadry Ys-1-12625 Yellow; Opadry Ys-1-12702a Yellow; Opadry Ys-1-12726a Yellow; Opadry Ys-1-12732 Yellow; Opadry Ys-1-1277 Pink; Opadry Ys-1-12789 Yellow; Opadry Ys-1-12826 Yellow; Opadry Ys-1-1283 Pink; Opadry Ys-1-12844 Yellow; Opadry Ys-1-12847 Yellow; Opadry Ys-1-1298 Pink; Opadry Ys-1-13013 Peach; Opadry Ys-1-13065a Orange; Opadry Ys-1-13119 Orange; Opadry Ys-1-13121 Yellow; Opadry Ys-1-13148a Orange; Opadry Ys-1-13214 Orange; Opadry Ys-1-13269 Orange; Opadry Ys-1-13271 Orange; Opadry Ys-1-13555 Orange; Opadry Ys-1-13591a Orange; Opadry Ys-1-13664a Orange; Opadry Ys-1-13673a Orange; Opadry Ys-1-13675a Orange; Opadry Ys-1-14012 Pink; Opadry Ys-1-14129 Pink; Opadry Ys-1-14130 Pink; Opadry Ys-1-14142 Pink; Opadry Ys-1-1418 Pink; Opadry Ys-1-1441g; Opadry Ys-1-1448g Pink; Opadry Ys-1-14518a Pink; Opadry Ys-1-14519a Pink; Opadry Ys-1-14532 Pink; Opadry Ys-1-1454 Pink; Opadry Ys-1-14555a Pink; Opadry Ys-1-14559 Pink; Opadry Ys-1-1456g Pink; Opadry Ys-1-14587a Pink; Opadry Ys-1-14593a Pink; Opadry Ys-1-14595 Pink; Opadry Ys-1-14608a; Opadry Ys-1-14643a Pink; Opadry Ys-1-14725 Pink; Opadry Ys-1-14756a Pink; Opadry Ys-1-14779a Pink; Opadry Ys-1-15050 Red; Opadry Ys-1-1510 Pink; Opadry Ys-1-1528 Pink; Opadry Ys-1-1543 Pink; Opadry Ys-1-15585a Red; Opadry Ys-1-16002 Maroon; Opadry Ys-1-16518a Brown; Opadry Ys-1-17169a; Opadry Ys-1-17180a Beige; Opadry Ys-1-17181a Beige; Opadry Ys-1-17192a; Opadry Ys-1-17209 Beige; Opadry Ys-1-17220; Opadry Ys-1-17222a Tan; Opadry Ys-

1-17235a Peach; Opadry Ys-1-1724 Red; Opadry Ys-1-17274a Beige; Opadry Ys-1-17277a Beige; Opadry Ys-1-17307a Butterscotch; Opadry Ys-1-17505a Gray; Opadry Ys-1-17506a Gray; Opadry Ys-1-1751g Red; Opadry Ys-1-1755 Gray; Opadry Ys-1-18005 White; Opadry Ys-1-18022 White; Opadry Ys-1-18027 White; Opadry Ys-1-18027a White; Opadry Ys-1-18028 White; Opadry Ys-1-18097a White; Opadry Ys-1-1811 Red; Opadry Ys-1-18111 White; Opadry Ys-1-18130a White; Opadry Ys-1-1814 Red; Opadry Ys-1-18177a White; Opadry Ys-1-18202a White; Opadry Ys-1-18229 White; Opadry Ys-1-1846 Red; Opadry Ys-1-1847 Red; Opadry Ys-1-1891 Red; Opadry Ys-1-19025-A Clear; Opadry Ys-1-2007 Yellow; Opadry Ys-1-2013 Yellow; Opadry Ys-1-2053 White; Opadry Ys-1-2053 Yellow; Opadry Ys-1-2063 Yellow; Opadry Ys-1-2074 Yellow; Opadry Ys-1-2083 Yellow; Opadry Ys-1-2115 Yellow; Opadry Ys-1-2122 Yellow; Opadry Ys-1-2134 Yellow; Opadry Ys-1-2135 Yellow; Opadry Ys-1-2136 Yellow; Opadry Ys-1-2141 Yellow; Opadry Ys-1-2152 Yellow; Opadry Ys-1-2167 Yellow; Opadry Ys-1-2181 Yellow; Opadry Ys-1-2184 Gold; Opadry Ys-1-2186 Yellow; Opadry Ys-1-2192 Yellow; Opadry Ys-1-2305 Orange; Opadry Ys-1-2308 Dark Orange; Opadry Ys-1-2344 Yellow; Opadry Ys-1-2383 Orange; Opadry Ys-1-2398 Orange; Opadry Ys-1-2449 Orange; Opadry Ys-1-2455 Red; Opadry Ys-1-2465; Opadry Ys-1-2487 Orange; Opadry Ys-1-2522 Orange; Opadry Ys-1-2526 Orange; Opadry Ys-1-2527 Orange; Opadry Ys-1-2534; Opadry Ys-1-2546 Orange; Opadry Ys-1-2548 Orange; Opadry Ys-1-2549 Orange; Opadry Ys-1-2558 Orange; Opadry Ys-1-2563 Orange; Opadry Ys-1-2564; Opadry Ys-1-2578 Orange; Opadry Ys-1-2596 Orange; Opadry Ys-1-2604 Beige; Opadry Ys-1-2612 Beige; Opadry Ys-1-2619; Opadry Ys-1-2621 Rust; Opadry Ys-1-2623 Brown; Opadry Ys-12630 Yellow; Opadry Ys-1-2635 Tan; Opadry Ys-1-2660 Salmon; Opadry Ys-1-2665 Beige; Opadry Ys-1-2669 Rust; Opadry Ys-1-2671 Beige; Opadry Ys-1-3105 Green; Opadry Ys-1-3130 Green; Opadry Ys-1-3134 Green; Opadry Ys-1-3146 Green; Opadry Ys-1-3147; Opadry Ys-1-3166 Green; Opadry Ys-1-3256 Green; Opadry Ys-1-3288 Green; Opadry Ys-1-4014 Blue; Opadry Ys-1-4018 Blue; Opadry Ys-1-4112 Blue; Opadry Ys-1-4137 Blue; Opadry Ys-1-4215; Opadry Ys-1-4216; Opadry Ys-1-4221 Blue; Opadry Ys-1-4228 Blue; Opadry Ys-1-4229 Blue; Opadry Ys-1-4234 Blue; Opadry Ys-1-4235 Blue; Opadry Ys-1-4236 Blue; Opadry Ys-1-4240 Blue; Opadry Ys-1-4241 Blue; Opadry Ys-1-4245 Blue; Opadry Ys-1-4249 Blue; Opadry Ys-1-4251 Blue; Opadry Ys-1-4254; Opadry Ys-1-4255; Opadry Ys-1-4256 Blue; Opadry Ys-1-4282 Blue; Opadry Ys-1-4298 Blue;

Opadry Ys-14644 Pink; Opadry Ys-1-4700 Purple; Opadry Ys-1-4710; Opadry Ys-1-4739 Lavender; Opadry Ys-1-4812 Lavender; Opadry Ys-1-4845 Purple; Opadry Ys-1-6275 Orange; Opadry Ys-1-6300; Opadry Ys-1-6312 Yellow; Opadry Ys-1-6318 Yellow; Opadry Ys-1-6320 Yellow; Opadry Ys-1-6357 Yellow; Opadry Ys-1-6370g Yellow; Opadry Ys-1-6378g Yellow; Opadry Ys-1-6381 Yellow; Opadry Ys-1-6382g Yellow; Opadry Ys-1-7000e White; Opadry Ys-1-7002 White; Opadry Ys-1-7003 White; Opadry Ys-1-7003h White; Opadry Ys-1-7006 Clear; Opadry Ys-1-7022 Off-White; Opadry Ys-1-7027 White; Opadry Ys-1-7040 White; Opadry Ys-1-7052 White; Opadry Ys-1-7059 White; Opadry Ys-1-7060 White; Opadry Ys-1-7079 White; Opadry Ys-1-7086 White; Opadry Y-S-17191 Brown; Opadry Ys-1-7444g White; Opadry Ys-1-7449 White; Opadry Ys-1-7472 Clear; Opadry Ys-1-7507 Grey; Opadry Ys-1-7552 Grey; Opadry Ys-1-7700 White; Opadry Ys-1-7706 Clear; Opadry Ys-1-7706g White; Opadry Ys-1-7724 White; Opadry Ys-1-8325 Beige; Opadry Ys-1-8343g Beige; Opadry Ys-1-8345g Beige; Opadry Ys-1-8608 Orange; Opadry Ys-1-8619 Orange; Opadry Ys-1-89193 Clear; Opadry Ys-1-9011 Brown; Opadry Ys-1-9012 Brown; Opadry Ys-1r-1418 Pink; Opadry Ys-1r-7006 Clear; Opadry Ys-2-10657 Blue; Opadry Ys-2-19071a Clear; Opadry Ys-2-19114a Clear; Opadry Ys-22-16576 Brown; Opadry Ys-22-18119 White; Opadry Ys-2-7013 Clear; Opadry Ys-2-7063 White; Opadry Ys-3-7011 Clear; Opadry Ys-3-7031 Clear; Opadry Ys-3-7413 Clear; Opadry Ys-5-12575 Yellow; Opadry Ys-5-12576 Yellow; Opadry Ys-5-1260 Pink; Opadry Ys-5-1296 Pink; Opadry Ys-5-17266 Tan; Opadry Ys-5-18011 White; Opadry Ys-5-18068 White; Opadry Ys-5-18074 White; Opadry Ys-5-19010 Clear; Opadry Ys-5-2085 Yellow; Opadry Ys-5-2370 Orange; Opadry Ys-5-3116 Green; Opadry Ys-5-4277 Blue; Opadry Ys-5-4278 Blue; Opadry Ys-5-7017; Opadry Ys-5-7042 Clear; Opadry Ys-5-7068; Opadry Ys-5-7099 White; Opaglos 2 97w19206 Clear; Opaglos 6000 White; Opaglos Gs 2-0300; Opaglos Gs 2-0310; Opaglos Ii 97w90646 Blue; Opaglos S 0750; Opalux As 1406 Pink; Opalux As 1459 Pink; Opalux As 1589 Pink; Opalux As 2006 Yellow; Opalux As 2007 Yellow; Opalux As 2052 Yellow; Opalux As 2062 Yellow; Opalux As 2086 Chartreuse; Opalux As 2094; Opalux As 2167 Yellow; Opalux As 2236; Opalux As 2269 Yellow; Opalux As 2324 Orange; Opalux As 2336 Orange; Opalux As 2395 Peach; Opalux As 2413; Opalux As 2433 Orange; Opalux As 2490 Coral; Opalux As 2498 Orange; Opalux As 2553 Orange; Opalux As 2612; Opalux As 2613 Tan; Opalux As 2620-B Tan; Opalux As 2676 Salmon Jasper Red; Opalux As 2754; Opalux As 2768; Opalux As 2787

Butterscotch; Opalux As 3140 Green; Opalux As 3287; Opalux As 3288 Green; Opalux As 3308 Green; Opalux As 3348-C Green; Opalux As 3376; Opalux As 3378-A Green; Opalux As 3381; Opalux As 3389 Green; Opalux As 3391 Green; Opalux As 3942 Maroon; Opalux As 4025; Opalux As 4151 Blue; Opalux As 4188 Blue; Opalux As 4193 Blue; Opalux As 4258 Blue; Opalux As 4270 Blue; Opalux As 4800 Lavender; Opalux As 4854 Lavender; Opalux As 4855 Purple; Opalux As 4891; Opalux As 5005-A Red; Opalux As 5034 Red; Opalux As 5107; Opalux As 5162 Green; Opalux As 5178 Green; Opalux As 5203 Green; Opalux As 5212 Green; Opalux As 7000-B; Opalux As 7000-P White; Opalux As 7001; Opalux As 7535 Gray; Opalux As 8010-A Black; Opalux As 8050-L Black; Opalux As 9010 Brown; Opalux As 9050 Brown; Opalux As-1475 Pink; Opalux As-9030 Brown; Opalux Blue; Opalux Green; Opaque Blue 100; Opaque Blue 147; Opaque Blue 605; Opaque Brown 85 Bfj; Opaque Green 1664; Opaque Green 97; Opaque Green/Flesh; Opaque Maroon 6 Dar; Opaque Pink 0439; Opaque White 001; Opaque White 002; Opaque White 535; Opaque White 536; Opaque White 538; Opaque White 8; Opaspray 3-1700; Opaspray 3-1810; Opaspray 3-1820; Opaspray 3-1830; Opaspray Im-176; Opaspray K-1-1230 Pink; Opaspray K-1-1243; Opaspray K-1-1254; Opaspray K-1-1279; Opaspray K-1-1289 Pink; Opaspray K-1-14016 Pink; Opaspray K-1-1413 Pink; Opaspray K-1-1414 Pink; Opaspray K-1-1432; Opaspray K-1-1437; Opaspray K-1-1455 Pink; Opaspray K-1-1526 Pink; Opaspray K-1-1563 Pink; Opaspray K-1-1573 Lavender; Opaspray K-1-1574; Opaspray K-1-1584; Opaspray K-1-1719 Red; Opaspray K-1-2004 Yellow; Opaspray K-1-2013 Yellow; Opaspray K-1-2043 Yellow; Opaspray K-1-2182 Yellow; Opaspray K-1-2186 Yellow; Opaspray K-1-2216-A Yellow; Opaspray K-1-2227 Yellow; Opaspray K-1-2228 Yellow; Opaspray K-1-2239; Opaspray K-1-2240 Yellow; Opaspray K-1-2256 Yellow; Opaspray K-1-2275 Yellow; Opaspray K-1-2300 Peach; Opaspray K-1-2301 Peach; Opaspray K-1-2303 Orange; Opaspray K-1-2304 Orange; Opaspray K-1-2314 Orange; Opaspray K-1-2327 Orange; Opaspray K-1-2330 Orange; Opaspray K-1-2335 Orange; Opaspray K-1-2406 Orange; Opaspray K-1-2410 Orange; Opaspray K-1-2417 Orange; Opaspray K-1-2430; Opaspray K-1-2441 Orange; Opaspray K-1-2471 Orange; Opaspray K-1-2473; Opaspray K-1-2492; Opaspray K-1-2531; Opaspray K-1-2533 Orange; Opaspray K-1-2554; Opaspray K-1-2568 Orange; Opaspray K-1-2570 Orange; Opaspray K-1-2588 Orange; Opaspray K-1-2614 Beige; Opaspray K-1-2621 Brown; Opaspray K-1-2626 Orange; Opaspray K-1-2656 Beige; Opaspray K-1-2670 Tan;

Opaspray K-1-2674 Beige; Opaspray K-1-2711; Opaspray K-1-2723 Butterscotch; Opaspray K-1-2837; Opaspray K-1-3000; Opaspray K-1-3142 Green; Opaspray K-1-3144 Green; Opaspray K-1-3147; Opaspray K-1-3148 Green; Opaspray K-1-3156; Opaspray K-1-3173 Green; Opaspray K-1-3178 Green; Opaspray K-1-3197 Green; Opaspray K-1-3202 Green; Opaspray K-1-3209 Green; Opaspray K-1-3220 Green; Opaspray K-1-3227; Opaspray K-1-3300-A Green; Opaspray K-1-3300-C Green; Opaspray K-1-3843; Opaspray K-1-4108 Blue; Opaspray K-1-4119; Opaspray K-1-4122 Blue; Opaspray K-1-4136 Blue; Opaspray K-1-4205 Blue; Opaspray K-1-4210-A; Opaspray K-1-4213 Blue; Opaspray K-1-4214; Opaspray K-1-4227; Opaspray K-1-4234 Blue; Opaspray K-1-4235 Blue; Opaspray K-1-4728; Opaspray K-1-4731 Purple; Opaspray K-1-4743 Lavender; Opaspray K-1-4786; Opaspray K-1-7000 White; Opaspray K-1-70008 White; Opaspray K-1-7000b; Opaspray K-1-7076; Opaspray K-1-9027 Brown; Opaspray K-1-9039-L Brown; Opaspray K-1-9060 Red; Opaspray K-1-9080 Brown; Opaspray K-1-9112 Brown; Opaspray L-2113; Opaspray L-3305 Green; Opaspray L-3306 Green; Opaspray L-7000 White; Opaspray M-1-2042; Opaspray M-1-3459 B Orange; Opaspray M-1-4395b Blue; Opaspray M-1-7111-B; Opaspray M-1-711b White; Opaspray M-1-7120 White; Opaspray M-1-8429 Yellow; Opaspray Wd-1270 Pink; Opatint Ad-22901 Yellow; Opatint Ad-25000 Red; Opatint Dd-14000 Pink; Opatint Dd-18000 White; Orange Juice; Orange Juice,Synthetic; Orange Oil; Orange Oil Terpeneless; Orange Peel; Orvus K Liquid; Oxidronate Disodium; Palm Kernel Oil; Palm Oil - Soybean Oil, Hydrogenated; Palmitamine Oxide; Palmitic Acid; Parabens; Paraffin; Parfum Creme 45/3; Parmacoat 606; Pd Base-1000; Peanut Oil; Pectin; Peg 6-32 Stearate/Glycol Stearate; Peg Vegetable Oil; Peg/Ppg-18/18 Dimethicone; Peg-100 Stearate; Peg-12 Glyceryl Laurate; Peg-120 Glyceryl Stearate; Peg-120 Methyl Glucose Dioleate; Peg-15 Cocamine; Peg-150 Distearate; Peg-2 Stearate; Peg-20 Methyl Glucose Sesquistearate; Peg-20 Sorbitan Isostearate; Peg-20 Stearate; Peg-22 Methyl Ether/Dodecyl Glycol Copolymer; Peg-25 Propylene Glycol Stearate; Peg-4 Dilaurate; Peg-4 Laurate; Peg-40 Castor Oil; Peg-40 Sorbitan Diisostearate; Peg-45/Dodecyl Glycol Copolymer; Peg-5 Oleate; Peg-50 Stearate; Peg-54 Hydrogenated Castor Oil; Peg-6 Isostearate; Peg-60 Hydrogenated Castor Oil; Peg-7 Methyl Ether; Peg-75 Lanolin; Peg-8 Caprylic/Capric Glycerides; Peg-8 Laurate; Peg-8 Stearate; Pegoxol 7 Stearate; Pentadecalactone; Pentaerythritol Cocoate; Pentasodium Pentetate; Pentetate Calcium Trisodium; Pentetic Acid; Peppermint Oil; Perflutren; Perfume 25677; Perfume B-

8412; Perfume Bouquet; Perfume E-1991; Perfume Gd 5604; Perfume Tana 90/42 Scba; Perfume W-1952-1; Petrolatum; Petroleum Distillates; Pharmaburst B1; Pharmaburst B2; Pharmaburst C1; Phenol; Phenonip; Phenoxyethanol; Phenylalanine; Phenylethyl Alcohol; Phenylmercuric Acetate; Phenylmercuric Nitrate; Phosphate Ion; Phospholipid; Phosphoric Acid; Pigment Blend 86620 Brown; Pigment Blend Pb-2145 Red; Pigment Blend Pb-2289 Yellow; Pigment Blend Pb-2389 Off-White; Pigment Blend Pb-2417 Pink; Pigment Blend Pb-2418 Black; Pigment Blend Pb-24899 Ih; Pine Needle Oil (Pinus Sylvestris); Pineapple; Piperazine; Piperazine Hexahydrate; Placebo; Plasacryl; Plastibase-50w; Plusweet; Polacrilin; Polacrilin Potassium; Polidronium Chloride; Polish Wax 7625 P 100; Polishing Solution Im-182; Poloxamer ; Poloxamer 70; Poloxamer 124; Poloxamer 181; Poloxamer 182; Poloxamer 188; Poloxamer 237; Poloxamer 331; Poloxamer 338; Poloxamer 407; Poly(Bis(P-Carboxyphenoxy)Propane Anhydride):Sebacic Acid; Poly(Dimethylsiloxane/Methylvinylsiloxane/Methylhydrogensiloxane) Dimethylvinyl Or Dimethylhydroxy Or Trimethyl Endblocked; Poly(Dl-Lactic-Co-Glycolic Acid), (50:50; 12000 Mw); Poly(Dl-Lactic-Co-Glycolic Acid), (75:25; 20000 Mw); Poly(Dl-Lactic-Co-Glycolic Acid), Ethyl Ester Terminated, (50:50; 12000 Mw); Poly(Methyl Acrylate-Co-Methyl Methacrylate-Co-Methacrylic Acid 7:3:1; 280000 Mw); Polyacrylic Acid (250000 Mw); Polybutene (1400 Mw); Polycarbophil; Polydextrose; Polydextrose K; Polyester; Polyester Polyamine Copolymer; Polyester Rayon; Polyester/Ethylene-Vinyl Acetate; Polyethylene Glycol 1000; Polyethylene Glycol 1450; Polyethylene Glycol 1500; Polyethylene Glycol 200; Polyethylene Glycol 20000; Polyethylene Glycol 300; Polyethylene Glycol 3000; Polyethylene Glycol 3350; Polyethylene Glycol 3500; Polyethylene Glycol 400; Polyethylene Glycol 4000; Polyethylene Glycol 4500; Polyethylene Glycol 540; Polyethylene Glycol 600; Polyethylene Glycol 6000; Polyethylene Glycol 7000; Polyethylene Glycol 800; Polyethylene Glycol 8000; Polyethylene Glycol 900; Polyethylene Glycols; Polyethylene High Density Containing Ferric Oxide Black (<1%); Polyethylene Low Density Containing Barium Sulfate (20-24%); Polyethylene Oxide 1000000; Polyethylene Oxide 200000; Polyethylene Oxide 2000000; Polyethylene Oxide 600000; Polyethylene Oxide 7000000; Polyethylene Oxide 900000; Polyethylene T; Polyethylene Terephthalates; Polygalacturonic Acid; Polyglactin; Polyglyceryl-10 Oleate; Polyglyceryl-10 Tetralinoleate; Polyglyceryl-3 Oleate; Polyglyceryl-4 Oleate;

Polyhydroxyethyl Methacrylate; Polyisobutylene; Polyisobutylene (1100000 Mw); Polyisobutylene (2300 Mw); Polyisobutylene (35000 Mw); Polyisobutylene (55000 Mw); Polyisobutylene (800000 Mw); Polyisobutylene Low Molecular Weight; Polyisobutylene Medium Molecular Weight; Polyisobutylene/Polybutene Adhesive; Polylactide; Polyols; Polyoxyethylene - Polyoxypropylene 1800; Polyoxyethylene Alcohols; Polyoxyethylene Fatty Acid Esters; Polyoxyethylene Propylene; Polyoxyl 20 Cetostearyl Ether; Polyoxyl 35 Castor Oil; Polyoxyl 40 Hydrogenated Castor Oil; Polyoxyl 40 Stearate; Polyoxyl 6 And Polyoxyl 32 Palmitostearate; Polyoxyl Distearate; Polyoxyl Glyceryl Stearate; Polyoxyl Lanolin; Polyoxyl Palmitate; Polyoxyl Stearate; Polyoxylethylene Isononylphenyl Ester; Polypropylene; Polypropylene Glycol; Polyquaternium-10; Polyquaternium-7 (70/30 Acrylamide/Dadmac; 1600000 Mw); Polysaccharides; Polysaccharides Soy; Polysiloxane; Polysorbate 20; Polysorbate 40; Polysorbate 60; Polysorbate 65; Polysorbate 80; Polysorbate 85; Polystyrene Sulfonic Acid; Polyurethane; Polyvinyl Acetate; Polyvinyl Acetate Phthalate; Polyvinyl Alcohol; Polyvinyl Alcohol Graft Polyethylene Glycol Copolymer (3:1; 45000 Mw); Polyvinyl Chloride; Polyvinyl Chloride-Polyvinyl Acetate Copolymer; Polyvinylacetal; Polyvinylpyridine; Polyvinylpyrrolidone Ethylcellulose; Ponceau 3r; Ponceau Xylidine; Poppy Seed Oil; Potassium; Potassium Acetate; Potassium Alum; Potassium Bicarbonate; Potassium Bisulfite; Potassium Bitartrate; Potassium Carbonate; Potassium Chloride; Potassium Citrate; Potassium Citrate Anhydrous; Potassium Hydroxide; Potassium Metabisulfite; Potassium Metaphosphate; Potassium Phosphate, Dibasic; Potassium Phosphate, Monobasic; Potassium Soap; Potassium Sorbate; Povidone Acrylate Copolymer; Povidone Hydrogel; Povidone K12; Povidone K17; Povidone K25; Povidone K26/28; Povidone K29/32; Povidone K30; Povidone K90; Povidone/Eicosene Copolymer; Povidones; Powdered Cellulose; Ppg-11 Stearyl Ether; Ppg-12/Smdi Copolymer; Ppg-15 Stearyl Ether; Ppg-20 Methyl Glucose Ether Distearate; Ppg-26 Oleate; Pramoxine Hydrochloride; Primajel; Primary Taste Modifier No. 29275; Product Wat; Proline; Promulgen D; Promulgen G; Propane; Propenyl Guaethol; Propyl Gallate; Propylene Carbonate; Propylene Glycol; Propylene Glycol - Lecithin; Propylene Glycol Alginate; Propylene Glycol Diacetate; Propylene Glycol Dicaprylate; Propylene Glycol Laurates; Propylene Glycol Monolaurate; Propylene Glycol Monopalmitostearate; Propylene Glycol Monostearate; Propylene Glycol Ricinoleate; Propylene Glycol/Diazolidinyl

Urea/Methylparaben/Propylparben; Propylparaben; Propylparaben Sodium; Prosolv; Prosolv 50; Prosolv 90; Prosolv Hd 90; Prosolv Smcc 50; Prosolv Smcc 90; Prosweet; Prosweet 604; Prosweet K; Protamine Sulfate; Protein Hydrolysate; Pvm/Ma Copolymer; Quaternium-15; Quaternium-15 Cis-Form; Quaternium-52; Ra-2397; Ra-3011; Raspberry; Raspberry Juice; Rhodamine B; Riboflavin; Rosin; Saccharin; Saccharin Calcium; Saccharin Sodium; Saccharin Sodium Anhydrous; Safflower Oil; Scandium; Sd Alcohol 3a; Sd Alcohol 3a Anhydrous; Sd Alcohol 40; Sd Alcohol 40-2; Sd Alcohol 40b; Sepifilm Lp-761 Blanc; Sepineo P 600; Sepisperse Ap 3527; Serine; Sesame Oil; Shea Butter; Shellac; Shellac P.V.P. Solution No. 4; Silastic Brand Medical Grade Tubing; Silastic Medical Adhesive,Silicone Type A; Silicon; Silicon Dioxide; Silicone; Silicone Emulsion; Silicone/Polyester Film Strip; Simethicone; Simethicone C; Simethicone Emulsion; Sipon Ls 20np; Soap; Sodium 1,2-Ethanedisulfonate; Sodium 2-Naphthalenesulfonate; Sodium Acetate; Sodium Acetate Anhydrous; Sodium Alginate; Sodium Alkyl Sulfate; Sodium Aluminium Silicate; Sodium Ascorbate; Sodium Benzoate; Sodium Bicarbonate; Sodium Bisulfate; Sodium Bisulfate Acetone; Sodium Bisulfite; Sodium Bitartrate; Sodium Borate; Sodium Carbonate; Sodium Carbonate Decahydrate; Sodium Carbonate Monohydrate; Sodium Carboxymethyl .Beta.-Glucan (Ds 0.65-0.85); Sodium Caseinate; Sodium Cellulose; Sodium Cetostearyl Sulfate; Sodium Chlorate; Sodium Chloride; Sodium Chlorite; Sodium Cholesteryl Sulfate; Sodium Citrate; Sodium Citrate; Sodium Cocoyl Sarcosinate; Sodium Cyclamate; Sodium Desoxycholate; Sodium Dithionite; Sodium Dodecylbenzenesulfonate; Sodium Ethylparaben; Sodium Formaldehyde Sulfoxylate; Sodium Gluconate; Sodium Hydroxide; Sodium Hypochlorite; Sodium Iodide; Sodium Lactate; Sodium Lactate, L-; Sodium Laureth-2 Sulfate; Sodium Laureth-3 Sulfate; Sodium Laureth-5 Sulfate; Sodium Lauroyl Sarcosinate; Sodium Lauryl Sulfate; Sodium Lauryl Sulfoacetate; Sodium Metabisulfite; Sodium Nitrate; Sodium Oleate; Sodium Phosphate; Sodium Phosphate Dihydrate; Sodium Phosphate P-32; Sodium Phosphate, Dibasic; Sodium Phosphate, Dibasic Dihydrate; Sodium Phosphate, Dibasic Dodecahydrate; Sodium Phosphate, Dibasic, Anhydrous; Sodium Phosphate, Dibasic, Dodecahydrate; Sodium Phosphate, Dibasic, Heptahydrate; Sodium Phosphate, Monobasic, Anhydrous; Sodium Phosphate, Monobasic, Dihydrate; Sodium Phosphate, Monobasic, Monohydrate; Sodium Phosphate, Monobasic; Sodium Phosphate, Tribasic; Sodium Phosphate, Tribasic, Anhydrous; Sodium Phosphate, Tribasic, Monohydrate;

Sodium Phosphite; Sodium Polyacrylate; Sodium Polyacrylate (2500000 Mw); Sodium Polymetaphosphate; Sodium Polystyrene Sulfonate; Sodium Propionate; Sodium Pyrophosphate; Sodium Pyrrolidone Carboxylate; Sodium Starch Glycolate Type A Corn; Sodium Starch Glycolate Type A Potato; Sodium Starch Glycolate Type B Potato; Sodium Stearate; Sodium Stearyl Fumarate; Sodium Succinate Hexahydrate; Sodium Sulfate; Sodium Sulfate Anhydrous; Sodium Sulfite; Sodium Sulfosuccinated Undecyclenic Monoalkylolamide; Sodium Tartrate; Sodium Thioglycolate; Sodium Thiomalate; Sodium Thiosulfate; Sodium Thiosulfate Anhydrous; Sodium Trimetaphosphate; Sodium Tripolyphosphate; Sodium Xylenesulfonate; Solvent Red 49; Somay 44; Sorbic Acid; Sorbitan; Sorbitan Isostearate; Sorbitan Monolaurate; Sorbitan Monooleate; Sorbitan Monopalmitate; Sorbitan Monostearate; Sorbitan Sesquioleate; Sorbitan Trioleate; Sorbitan Tristearate; Sorbitol; Sorbitol Special Polyol Solution; Sorbitol-Glycerin Blend; Soybean; Soybean Oil; Spearmint; Spearmint Oil; Spectrablend Csl-15764 (Blue); Spermaceti; Squalane; Stannous 2-Ethylhexanoate; Stannous Chloride; Stannous Chloride Anhydrous; Stannous Fluoride; Stannous Tartrate; Star Anise; Starch; Starch 7150; Starch 825; Starch 826; Starch, Corn; Starch, Modified; Starch, Potato; Starch, Pregelatinized; Starch, Rice; Starch, Tapioca; Starch, Wheat; Stearalkonium Chloride; Stearalkonium Hectorite/Propylene Carbonate; Stearamidoethyl Diethylamine; Stearates; Steareth-10; Steareth-100; Steareth-2; Steareth-20; Steareth-21; Steareth-40; Stearic Acid; Stearic Diethanolamide; Stear-O-Wet C; Stear-O-Wet M; Stearoxytrimethylsilane; Stearoyl Polyoxylglycerides; Steartrimonium Hydrolyzed Animal Collagen; Stearyl Alcohol; Strawberry; Styrene/Isoprene/Styrene Block Copolymer; Succimer; Succinic Acid; Sucralose; Sucrose; Sucrose Laurate; Sucrose Palmitate; Sucrose Polyesters; Sucrose Stearate; Sucrose Stearate/Sucrose Distearate; Sugar Liquid Type No. 0; Sugar/Starch Insert Granules; Sulfacetamide Sodium; Sulfur Dioxide; Sulfuric Acid; Sulfurous Acid; Surelease E-719010 Clear; Surelease E-7-7050; Surfactol Qs; Synchron Oral Carrier; Synchron Oral Carrier Base Kf; Synchron Oral Carrier Vehicle Type Em; Synthetic Iron Oxides; Tagatose; Talc; Talc 127; Talc Triturate; Tall Oil; Tallow Glycerides; Tartaric Acid; Tartaric Acid, Dl-; Tegacid; Tenox; Tenox-2; Terpene Resin; Tert-Butyl Alcohol; Tert-Butyl Hydroperoxide; Tert-Butylhydroquinone; Tetrachloroethylene; Tetrakis(2-Methoxyisobutylisocyanide)Copper(I) Tetrafluoroborate; Tetrapropyl Orthosilicate; Tetrofosmin; Thimerosal; Threonine; Thymol; Timing Solution Clear

N-7; Tin; Titanium Dioxide; Tocopherol; Tocophersolan; Tolterodine Tartrate; Tolu Balsam; Tragacanth; Trehalose; Triacetin; Tribasic Calcium Phosphate; Tribehenin; Tricaprylin; Tricetareth-4 Phosphate; Trichloroethane; Trichloroethylene; Trichloromonofluoromethane; Trideceth-10; Triethanolamine Lauryl Sulfate; Triethyl Citrate; Trifluoroacetic Acid; Triglyceride, Synthetic; Trihydroxystearin; Trilaneth-4 Phosphate; Trilaureth-4 Phosphate; Trimethylsilyl Treated Dimethiconol/Trimethylsiloxysilicate Crosspolymer (35/65 W/W; 50000000 Pa.S); Trimethylsilyl Treated Dimethiconol/Trimethylsiloxysilicate Crosspolymer (40/60 W/W; 5000000 Pa.S); Trimethylsilyl Treated Dimethiconol/Trimethylsiloxysilicate Crosspolymer (45/55 W/W; 100000 Pa.S); Trimyristin; Trisodium Citrate Dihydrate; Trisodium Hedta; Tristearin; Triton 720; Trolamine; Tromantadine; Tromethamine; Tryptophan; Turpentine Oil; Tyloxapol; Ty-Med Filler, Blue; Tyrosine; Undecylenic Acid; Union 76 Amsco-Res 6038; Urea; Urethane; Ursodiol; Valine; Vanilla; Vanillin; Vegetable Oil; Vegetable Oil Glyceride, Hydrogenated; Vegetable Oil, Hydrogenated; Vegetable Shortening; Velvetine Black Powder; Verbascum Densiflorum Leaf; Versetamide; Vinyl Acetate - Crotonic Acid Copolymer; Viscose/Cotton; Water; Wax; Wax Blend; Wax, Emulsifying; Wax, Vegetable; Wecobee Fs; Wheat; Wheat Gluten; White Wax; Xanthan Gum; Xylitol; Xylitol 300; Yellow Ob; Yellow Wax; Zein; Zinc; Zinc Acetate; Zinc Carbonate; Zinc Chloride; Zinc Oxide; Zinc Stearate; Zinc Sulfate Monohydrate; Zinc Sulfate (anhydrous).

[0205] In some embodiments, the composition comprises a sweetening compound and/or a sweet flavor enhancing compound, and one or more texture modifying agents, including, for example, emulsifying agents, gelling agents, thickening agents, and binders. In some embodiments, the one or more texture modifying agents are selected from gums, alginates, gelatins, starches, pectins, agars, carageenans, and salts thereof.

[0206] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more bitterants, bitter flavor compounds, or bitterness-enhancing compounds. Representative bitterants, bitter flavor compounds, and bitterness-enhancing compounds include but are not limited to: Acteoside, Adhumulone,Adlupulone, Aesculetin, Aesculin, L-Alanine, L-alanyl-L-alanyl-L-Alanine, L-alanyl-L-isoleucyl-Alanine L-, L-valyl-L-valyl-Amarogentin, Amaropanin Amaroswerin, Amygdalin, Angustifoline, Antiacetylhumulone, Antiisohumulone, Arginine, L-Arginyl Leucine, Arginyl Leucy Leucine,

Arginyl Proline, Asaronaldehyde, Aspartyl Aspartic acid, Asparasaponin I, Atropine, Benzyl beta-D-arabinoside, Benzyl beta-L-arabinoside, Benzyl beta-D-fructoside, Benzyl beta-D-galactoside, Benzyl alpha-D-glucoside, Benzyl beta-D-glucoside, Benzyl alpha-D-mannoside, Bitter Peptides, Bitter Peptides from Soy Proteins, Butyl alpha-D-glucoside, Butyl beta-D-glucoside, Caffeine, Carnosifloside II, Carnosifloside III, Carnosifloside IV, Catechin, Epicatechin, Epicatechin gallate, Chaconine, alpha-Chaconine, beta2-Chloramphenicol, Cholic Acid, Cichoriin, Cohumulone, Colupulone, Cryptochlorogenic Acid, gamma-lactone, Cucurbitacin B, Cucurbitacin D, Cyclo Alanine-glycine, Cyclo Alanine-phenylanaline, Cyclo Alanine-valine, Cyclo(L-arginylglycyl-L-prolyl -L-prolyl-L-phenylalanyl-L-isoleucyl-L-valyl), Cyclo Asparagine-phenylalanine, Cyclo Glycine-phenylalanine, Cycloheximide Cyclo Lucine-Tryptophan, Cyclopent(b)azepin-8(1 H)-one, 7-Methyl-2,3,6,7-Tetrahydro-Cyclopent(b)azepin-8(1H)-one, 2,3,6,7-tetrahydro-7-hydroxy-7-methyl-Cyclopent-2-en-1-one, 2,5-dihydroxy-5-methyl-3-(1-piperidinyl)-Cyclopent-2-en-1-one, 2,5-dihydroxy-5-methyl-3-(1-pyrrolidinyl) Cyclopent-2-en-1-one, 2,3-di-1-pyrrolidinyl-Cyclopent-2-en-1-one, 5-hydroxy-5-methyl-2,3-di-1-piperidinyl-Cyclopent-2-en-1-one, 5-hydroxy-5-methyl-2,3-di-1-pyrrolidinyl-Cyclopent-2-en-1-one, 5-methyl-2,3-di-1-pyrrolidinyl-Cyclopent-2-en-1-one, 5-methylene-2,3-di-1-pyrrolidinyl-Cyclopent-2-en-1-one, 3-methyl-2-(1-pyrrolidinyl)-Cyclo Phenyalanine-aspartic acid, Cyclo Proline-alanine, Cyclo Proline-asparagine, Cyclo Proline-glycine, Cyclo Proline-isolucine, Cyclo Proline-leucine, Cyclo Proline-methionine, Cyclo Proline-phenylalanine, Cyclo Proline-proline, Cyclo Proline-valine, Cyclo Valine-phenylalanine, Cynaratriol, Cynaropicrin, Cynaropicrin, Daidzein, Daidzin Denatonium benzoate, Denatonium saccharide, Dhurrin, Dihydroxybenzoic Acid, 2,3-Dihydroxybenzoic Acid, 2,4-Ethyl b-L-arabinoside, Ethyl alpha-D-Glucoside, Ethyl beta-D-Glucoside, Eustomoroside, Eustomoside, Gallic Acid, Epigallocatechin, Epigallocatechin gallate, Gaudichaudioside F, Gelidoside, Genistein, Genistin, Gentiopicroside, Gentistic Acid, Gentomoside, Geshoidin, 6'-O-beta-D-Glucosylgentiopicroside, ucozaluzanin C, Glutamyl Aspartic Acid, Glutamyl Glutamic Acid, Glycyl Leucine, Goitrin, Gramine, Grosshemin, Haematoxylin Tetramethyl Ether Helicin, Heptadeca-16-ene, 1-Acetoxy-2,4-Dihydroxy-Heptadeca-16-ene, 1,2,4-Trihydroxy-Histidine, L-Hulupone, Humulinone, Humulone, Hydroxybenzoic Acid, 4-Hymenoside A, Hymenoside B, Hymenoside C, Hymenoside D, Hymenoside E, Hymenoside F, Isohumulone, cis-Isohumulone, trans-Isoleucine, L-Isolupanine,

Isosparteine, beta-Isosparteine, 10,17-Dioxo-beta-Isosparteine, 10-oxo-beta-Lactucin, L-Leucine, L-alanyl-L-alanyl-L-Leucine,N-[(R2R) -6-amino-2-[(4S)-2,5-dioxo-4-(phenylmethyl)-1-imidazolidinyl]-1-oxohexyl]- -L-leucyl-L-methionyl-N-methyl-L-phenylalanyl-, (4-1)-lactam, L-Leucine, glycyl-L-alanyl-Leucine, L-L-Leucine, N-(N2-L-leucyl-L-glytaminyl)-L-Leucine, N-(N-L-leucyl-L-a-glutamyl)-L-Leucine, N-[N2-[N2-[N-(1-L-leucyl-L-prolyl)-L-phenylalanyl]-L-asparaginyl]-L-gluta- minyl]-L-Leucine, N[N2-[N-[N-(1-L-leucyl-L-prolyl)-L-phenylalanyl]-L-seryl]-L-glutaminyl]-L- -Leucine, L-leucyl-L-valyl-Leucy Leucine, Leucyl Phenylalanine, Limonin, Limoninmonolactone, Linamarin, Lotaustralin, Lupine, Lupanine, 13-Hydroxy-Lupanine, 7-hydroxy-Lupinine, Epilupinine Lupoxes B, Lupoxes C, Lupulone, Luputrione, Mellein, 6-Methoxy-Methionine, L-Methyl alpha-L-arabinoside, Methyl beta-L-arabinoside, Methyl beta-D-Glucoside, Methyl alpha-D-Glucoside 2,3-Di-isoleucine, Methyl alpha-D-Glucoside 2,3-Di-leucine, Methyl alpha-D-Glucoside 2,3-Di-L-phenylalanine, Methyl alpha-D-Glucoside 2,3-Di-threonine, Methyl alpha-D-Glucoside 2,3-Di-tyrosine, Methyl a-D-mannoside, Methyl beta-L-xylopyranoside, Methyl alpha-D-xyloside, Naringin, Neochlorogenic Acid, gamma-Lactone, Neohesperidin, Nuezhenide, Oleonuezhenide, Oleuropein, Olivieroside A, Olivieroside B, Olivieroside C, Perrottetin H, Phenylalanine, L-Phenyl alpha-D-galactoside, Phenyl alpha-D-glucoside, Phenyl beta-D-glucoside, Phenylthiourea, Phlomisoside II, Piperidine-2-carboxylic acid, 4-[(2-carboxy-2-hydroxyethyl(thio]-Piperidinecarboxylic acid-2, 4-[(2-carboxy-2-hydroxyethyl)thio]-Prehumulone, Prelupulone, Propyl beta-D-fructoside, Propyl alpha-D-glucoside, Propyl beta-D-glucoside, Protocatechuic Acid, Prunasin, Pulcherrimine, Quinidine, Quinine, Quinolizinium-7-olate, Ranitidine, Rebaudioside C, Salicin, Salidroside, Scabraside, Scandenoside R5, Sclareolide, Scopolin, Septemfidoside, Seryl Lysyl Glycyl Leucine, Sinapine, Solanine, alpha-Sparteine, Sparteine, 17-oxo-Stevisalioside A, Strychnine, Suavioside C1, Suavioside D2, Suavioside F, Sucrose Octaacetate, Sweroside, Swertiamarin, Swertiapunimarin, Taxiphyllin, TFI (Furostan, beta-D-galactopyranoside), Theaflavin, Theaflavin Gallate A, Theaflavin Gallate B, Tomatidine, Tomatine, alpha-Tricyclodehydroisohumulone, Trifloroside, Trihydroxybenzoic Acid, 2,4,6-Tryptophan, L-Uracil, 6-propyl-2-thio-L-Valine, L-arginylglycyl-L-prolyl-L-prolyl-L-phenylalanyl-L-isoleucyl-(BPIa)Valine , L-Yohimbine, extract of wild cucumber, Denatonium, denatonium benzoate, and denatonium saccharide.

[0207] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more acids or sour flavorants. Representative sour flavorants include but are not limited to: ascorbic acid, benzoic acid, gallic acid, glucuronic acid, adipic acid, glutaric acid, malonic acid, succinic acid, malic acid, acetic acid, lactic acid, citric acid, tartaric acid, fumaraic acid, phosphoric acid, pyrophosphoric acid, tannic acid, vinegar, lemon juice, lime juice, acidic fruit juices, and acidic fruit extracts.

[0208] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more salts or salt flavor enhancers. Representative salts or salt flavor enhancers include but are not limited to: mineral salts, sodium chloride, potassium chloride, magnesium chloride, ammonium chloride, sodium gluconate, sodium phosphates, glycine, L-alanine, L-valine, L-leucine, L-isoleucine, L-phenylalanine, L-tyrosine, L-glutamine, L-glutamic acid, L-asparagine, L-aspartic acid, L-serine, L-threonine, L-cysteine, L-methionine, L-proline, L-lysine, L-arginine, L-tryptophan, L-histidine, L-pyrolysine, L-pyroglutamine, L-4-trans-hydroxyproline, L-3-cis-hydroxyproline, L-homoserine, L-homocysteine, L-cystine, L-ornithine and L-citrulline, L-glutamine, L-glutamic acid, L-asparagine, L-aspartic acid, L-valine, L-arginine and L-lysine.

[0209] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more umami flavors or umami flavor enhancers. Representative umami flavor compounds or umami flavor enhancing compounds include but are not limited to the compounds identified in U.S. Patent Application Publications 2005/0084506A1, U.S. 2009/0111834A1, U.S. 2012/0201763A1, U.S. 2015/0093339A1, U.S. 2006/0263411A1, U.S. 2012/0226047A1,and 2009/0220662A1. Additional representative umami flavor compounds or umami flavor enhancing compounds include but are not limited to: hydrolyzed soy protein, hydrolyzed corn protein, hydrolyzed wheat protein, anchovy, anchovy paste, fish sauce, yeast extract, nutritional yeast, hydrolyzed yeast extract, mushrooms, mushroom powder, dehydrated mushrooms, mushroom extract, kombucha, hydrolyzed vegetable protein, oyster sauce, soy sauce, soy extract, tamari, miso powder, miso paste, parmesan cheese, parmesan cheese solids, kombu powder, kombu, dehydrated kombu, kombu paste, nori, nori powder, nori paste, seaweed, dehydrated seaweed, seaweed powder, seaweed extract, tomato, dehydrated tomato, tomato powder, tomato extract, vegetable powder, vegetable extract, whey

powder, whey solids, whey, collagen, gelatin, textured vegetable protein, sodium caseinate, calcium caseinate, magnesium caseinate, potassium caseinate, glyoxylic acid, 3-methyl-2-oxo-butanoic acid, 3-methyl-2-oxo-pentanoic acid, 4-methyl-2-oxo-pentanoic acid, 3-hydroxy-2-oxo-propanoic acid, oxalacetic acid, 2-oxo-glutaric acid, 2-oxo-3-phenyl-propanoic acid, 3-(4-hydroxyphenyl)-2-oxo-propanoic acid, 2-oxo-1H-indole-3-propanoic acid, 2-oxo-1H-imidazole-4-propanoic acid, 4-methylthio-2-oxo-butanoic acid, 3-mercapto-2-oxo-propanoic acid, 3-hydroxy-2-oxo-butanoic acid, 6-amino-2-oxo-hexanoic and 5-guanidino-2-oxo-pentanoic acid, 2-amino-butanoic acid, .alpha.-alanine, glycine, norvaline, valine, aspartic acid, norleucine, leucine, isoleucine, serine, threonine, glutamic acid, phenylalanine, tyrosine, cysteine, methionine, lysine, tryptophane, histidine, arginine, asparagine, glutamine, cystine, citrulline, theanine, .gamma.-methylene-glutamic acid, isoeugenol, 2-propylphenol, p-vinylguaiacol, 2-acetylpyrazine, 2-ethyl-3,5-dimethylpyrazine, 2,3,5-trimethylpyrazine, 2,3-diethyl-5-methylpyrazine, 3-ethyl-2-methylpyrazine, dimethyl sulfide, dimethyl disulfide, dimethyl trisulfide, methylpropyl disulfide, 2-methylthiophenol, methional (3-methylthiopropanal), 2-octenal, 2,4-nonadienal, 2,4-decadienal, 2,4-undecadienal, 2-methoxybenzaldchyde, 2,4-dodecadienal, decenal, methyl 2-furanecarboxylate, 2-ethyl-4-hydroxy-3-methyl 5(2H)-furanone, 2,6-dimethylbenzenethiol 2-nonen-1-ol, 10-undecenoic acid, undecanoic acid, isodecanoic acid and isononanoic acid, 2-oxo-butanoic acid, oxalacetic acid, 3-methyl-2-oxo-butanoic acid, 3-methyl-2-oxo-pentanoic acid, 2-oxo-glutaric and 3-mercapto-2-oxo-propanoic acid, NaCl, KCl, MSG, guanosine monophosphate (GMP), inosin monophospahte (IMP), ribonucleotides such as disodium inosinate, disodium guanylate, N-(2-hydroxyethyl)-lactamide, N-lactoyl -GMP, N-lactoyl tyramine, gamma amino butyric acid, allyl cysteine, 1-(2-hydroxy-4-methoxylphenyl)-3-(pyridine-2-yl)propan-1-one, arginine, potassium chloride, ammonium chloride, succinic acid, N-(2-methoxy-4-methyl benzyl)-N'-(2-(pyridin-2-yl)ethyl) oxalamide, N-(heptan-4-yl)benzo(D)(1,3)dioxole-5-carboxamide, N-(2,4-dimethoxybenzyl)-N'-(2-(pyridin-2-yl)ethyl) oxalamide, N-(2-methoxy-4-methyl benzyl)-N'-2(2-(5-methyl pyridin-2-yl)ethyl) oxalamide, cyclopropyl-E,Z-2,6-nonadienamide, glutamic acid, glutamate, monosodium glutamate, monopotassium glutamate, monoammonium glutamate, calcium diglutamate, magnesium diglutamate, L-asparagine or a salt thereof, 5'-ribonucleotides or their salts, calcium 5'-ribonucleotides, disodium 5'-ribonucleotides, dipotassium 5'-ribonucleotides, inosinic acid,

guanylic acid, adenosinic acid, inosinates, guanylates, and adenylates, guanosine 5'-monophosphate, inosine 5'-monophosphate, 5'-adenylate, disodium guanylate, disodium inosinate, disodium adenylate; dipotassium guanylate, dipotassium inosinate, dipotassium adenylate, calcium guanylate, calcium inosinate, calcium adenylate, maltol, ethyl maltol, glycine, L-leucine, autolyzed or hydrolyzed proteins (e.g. autolyzed yeast, hydrolyzed yeast, hydrolyzed vegetable proteins), Koji-Aji (Ajinomoto Food Ingredients), fermented wheat gluten, Glutathione, Glutamyl Glutamic Acid, (Z)-6-Dodecen-4-olide, Inosinic acid, Dodec-Z6-en-4-olide, Glutamic Acid, L-Aconitic Acid, N-(1-deoxy-fructos-1-yl) glutamate, hydrolyzed vegetable protein, Methyl alpha-D-Glucoside, 2,3-Di-lysine, Methyl alpha-D-Glucoside 2,3-Di-ornithine, L-Asparagine, L-a-glutamyl-L-a-glutamyl-L-Glutamic acid, L-a-aspartyl-L-a-glutamyl-Glutamyl valine, Wheat gluten hydrolyzate, Aspartic acid L-, L-a-aspartyl-L-a-aspartyl-L-a-aspartyl-Docosahexaenoic acid, and (4Z,7Z,10Z,13Z,16Z,19Z)-L-Theanine, allyl cysteine, propenyl cysteine, S-(.alpha.,.beta.-dicarboxyethyl) .gamma.-L-glutamyl-L-cysteinyl-glycine, S-(.alpha., .beta.-dicarboxyethyl) cysteine, 3-(carboxymethoxy)-alanine, S-carboxymethyl-glutathione (glutaramic acid), S-carboxymethyl-cysteinyl-glycine, (S-carboxymethyl)-lysyl-cysteine, S-dicarboxymethyl-glutathione, S-carboxymethyl-cysteine, S-(1,2-dicarboxyethyl)-glutathione, and S-(1,2-dicarboxyethyl)-cysteine, N-acetyl GMP, N-formyl GMP, N-propanoyl GMP, N-butanoyl GMP, N-pentanoyl GMP, N-hexanoyl GMP, N-heptanoyl GMP, N-octanoyl GMP, N-oxalyl GMP, N-succinyl GMP, N-glutaryl GMP, N-fumaryl GMP, N-maleyl GMP, N-adipyl GMP, N-citryl GMP, N-galloyl GMP, N-oxalacetyl-GMP, N-feruloyl GMP, N-pyruvyl GMP, N-benzoyl GMP, N-vanilloyl GMP, N-anthranoyl GMP, N-caffeoyl GMP, N-cinnamoyl GMP, N-acetyl AMP, N-formyl AMP, N-propanoyl AMP, N-butanoyl AMP, N-pentanoyl AMP, N-hexanoyl AMP, N-heptanoyl AMP, N-octanoyl AMP, N-oxalyl AMP, N-succinyl AMP, N-glutaryl AMP, N-fumaryl AMP, N-maleyl AMP, N-adipyl AMP, N-citryl AMP, N-galloyl AMP, N-oxalacetyl-AMP, N-feruloyl AMP, N-pyruvyl AMP, N-benzoyl AMP, N-vanilloyl AMP, N-anthranoyl AMP, N-caffeoyl AMP, N-cinnamoyl AMP, N-acetyl CMP, N-formyl CMP, N-propanoyl CMP, N-butanoyl CMP, N-pentanoyl CMP, N-hexanoyl CMP, N-heptanoyl CMP, N-octanoyl CMP, N-oxalyl CMP, N-succinyl CMP, N-glutaryl CMP, N-fumaryl CMP, N-maleyl CMP, N-adipyl CMP, N-citryl CMP, N-galloyl CMP, N-oxalacetyl-CMP, N-feruloyl CMP, N-pyruvyl CMP, N-benzoyl CMP, N-vanilloyl CMP, N-anthranoyl

CMP, N-caffeoyl CMP, N-cinnamoyl CMP, N-acetyl GMP, N-formyl GMP, N-propanoyl GMP, N-butanoyl GMP, N-pentanoyl GMP, N-hexanoyl GMP, N-heptanoyl GMP, N-octanoyl GMP, N-oxalyl GMP, N-succinyl GMP, N-glutaryl GMP, N-fumaryl GMP, N-maleyl GMP, N-adipyl GMP, N-citryl GMP, N-galloyl GMP, N-oxalacetyl-GMP, N-feruloyl GMP, N-pyruvyl GMP, N-benzoyl GMP, N-vanilloyl GMP, N-anthranoyl GMP, N-caffeoyl GMP, N-cinnamoyl GMP, flavor modifiers created by maillard reactions, S-(.alpha.,.beta.-dicarboxyethyl) .gamma.-L-glutamyl-L-cysteinyl-glycine, S-(.alpha., .beta.-dicarboxyethyl) cysteine, 3-(carboxymethoxy)-alanine, S-carboxymethyl-glutathione (glutaramic acid), S-carboxymethyl-cysteinyl-glycine, (S-carboxymethyl)-lysyl-cysteine, S-dicarboxymethyl-glutathione, S-carboxymethyl-cysteine, S-(1,2-dicarboxyethyl)-glutathione, and S-(1,2-dicarboxyethyl)-cysteine, Gamma-L-glutamyl-L-cysteinyl-glycine or y-Glu-Cys-Gly, Rubemamine, rubemamide, rubescenamine, Rubescenamide, zanthosine, zanthosinamide, dioxamide, dioxamine, zanthomamine, and zanthomamide.

[0210] Umami flavor compounds or umami flavor enhancing compounds may also include peptides with the sequence Lys-Ile-His-Pro-Phe, Gly-Pro-Phe-Pro-Ile, or Lys-Lys-Tyr-Lys-Val-Pro-Gln, Glu-Glu-Leu, Glu(Glu-Leu), Leu-Glu-Glu, Glu-Asp-Phe, Glu-Glu-Ile, Asp-Glu-Leu and Glu-Leu-Glu. And their N-lactoyl derivatives, Lys-Gly-Asp-Glu-Glu-Ser-Leu-Ala, Ser-Leu-Ala-Lys-Gly-Asp-Glu-Glu, Ser-Leu-Ala-Asp-Glu-Glu-Lys-Gly, Lys-Gly-Ser-Leu-Ala,-Asp-Glu-Glu, Lys-Gly-Asp-Glu-Glu, Glu-Glu-Asp-Gly-Lys, or Asp-Glu-Glu (See Nakata et al., Biosci. Biotechnol. Biochem. (1995) 59(4):689-93).

[0211] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more plant or animal products. Representative plant or animal products include but are not limited to: zedoary bark extract (curcuma zedoaria (berg.) rosc.), zedoary (curcuma zedoaria (berg.) rosc.), alfalfa extract (medicago sativa l.), alfalfa herb and seed (medicago sativa l.), algae brown extract (macrocystis and laminaria spp.), algae red (porphyra spp. and gloiopeltis furcata and rhodymenia palmata (l.)), algae red extract (porphyra spp. and gloiopeltis furcata and rhodymenia, alkanet root extract (alkanna tinctoria tausch), allspice (pimenta officinalis lindl.), allspice, oil (pimenta officinalis lindl.), allspice, oleoresin (pimenta officinalis lindl.), almond, bitter, oil (ffpa) (prunus spp.), aloe, extract (aloe spp.), ambrette, absolute, oil (hibiscus abelmoschus l.), ambrette seed (hibiscus abelmoschus l.),

ambrette seed, oil (hibiscus abelmoschus l.), ambrette, tincture (hibiscus abelmoschus l.), amyris (amyris balsamifera l.), amyris, oil (amyris balsamifera l.), angelica root (angelica spp.), angelica root, extract (angelica archangelica l.), angelica root, oil (angelica archangelica l.), angelica seed (angelica spp.), angelica seed, extract (angelica archangelica l.), angelica seed, oil (angelica archangelica l.), angelica stem, oil (angelica archangelica l.), angola weed (roccella fuciformis ach.), angostura (galipea offincinalis hancock), angostura, extract (galipea officinalis hancock), anisaldehyde propyleneglycol acetal, anise (pimpinella anisum l.), anise, oil (pimpinella anisum l.), anise, star (illicium verum hook, f.), anise, star, oil (illicium verum hook, f.), annatto, extract (bixa orellana l.), annatto, seed (bixa orellana l.), apple essence, natural, apricot kernel, oil (prunus armeniaca l.), arnica flowers (arnica spp.), arrowroot starch, artemisia (artemisia spp.), artemisia extract, artemisia oil, artichoke leaves (cynara scolymus l.), asafetida, fluid extract (ferula assafoetida l.), asafetida, gum (ferula assafoetida l.), asafetida, oil (ferula assafoetida l.), asparagus, seed and root, extract, bakers yeast extract, baker's yeast glycan, baker's yeast protein, balm (melissa officinalis l.), balm leaves (melissa officinalis l.), balm leaves, extract (melissa officinalis l.), balm, oil (melissa officinalis l.), fir, balsam, needles and twigs (abies balsamea (l.) mill.), balsam fir, oil (abies balsamea (l.) mill.), balsam fir, oleoresin (abies balsamea (l.) mill.), balsam, peru (myroxylon pereirae klotzsch), balsam, peru, oil (myroxylon pereirae klotzsch), basil (ocimum basilicum l.), basil bush (ocimum minimum l.), basil, extract (ocimum basilicum l.), basil, oil (ocimum basilicum l.), basil, oleoresin (ocimum basilicum l.), bay (laurus nobilis l.), bay leaves, sweet, extract (laurus nobilis l.), bay leaves, sweet, oil (laurus nobilis l.), bay leaves, west indian, extract (pimenta acris kostel), bay leaves, west indian, oil (pimenta racemosa (mill.) j.w. moore), bay leaves, west indian, oleoresin (pimenta acris kostel), beechwood, creosote (fagus spp.), benzoin, resin (styrax spp.), bergamot, oil (citrus aurantium l. subsp. bergamia wright et arn.), birch, sweet, oil (betula lenta l.), birch tar, oil (betula pendula roth and related betula spp.), blackberry bark, extract (rubus, spp. of section eubatus), blackberry fruit extract, bois de rose, oil (aniba rosaeodora ducke), boldus leaves (peumus boldus mol.), bonito, dried, boronia, absolute (boronia megastigma nees), bouillon, vegetable, smoke, bryonia root (bryonia spp.), buchu leaves (barosma betulina and crenulata), buchu leaves extract, buchu leaves, oil (barosma spp.), buckbean leaves (menyanthes trifoliata l.), buckbean leaves, extract (menyanthes trifoliata l.), cajeput, oil (melaleuca leucadendron l.), calumba root (jatrorrhiza palmata (lam.)

miers), calumba root, extract (jatrorrhiza palmata (lam.) miers), d-camphor, camphor, japanese, white, oil (cinnamomum camphora (l.) nees et eberm.), camphor oil, formosan ho-sho, leaves (cinnamomum camphora), cananga, oil (cananga odorata hook. f. and thoms.), candelilla wax (wax from stems and branches of euphorbia cerifera), capers (capparis spinosa l.), capsicum (capsicum spp.), capsicum extract (capsicum spp.), capsicum, oleoresin (capsicum spp.), caramel, caraway (carum carvi l.), caraway, black (nigella sativa l.), caraway, oil (carum carvi l.), cardamom (elletaria cardamomum (l.) maton), cardamom oleoresin, cardamom seed, oil (elletaria cardamomum (l.) maton), carob bean, extract (ceratonia siliqua l.), cascara, bitterless, extract (rhamnus purshiana dc.), cascarilla bark, extract (croton spp.), cascarilla bark, oil (croton spp.), casein, cassia buds (cinnamomum cassia blume), cassie, absolute (acacia farnesiana (l.) willd.), castoreum, extract (castor spp.), castoreum, liquid (castor spp.), castor oil (ricinus communis l.), catechu, black, extract (acacia catechu willd.), catechu, black, powder (acacia catechu willd.), cedar leaf, oil (thuja occidentalis l.), cedarwood oil alcohols, cedarwood oil terpenes, celery seed (apium graveolens l.), celery seed, extract (apium graveolens l.), celery seed, extract solid (apium graveolens l.), celery seed, oil (apium graveolens l.), celery seed, centaury (centaurium umbellatum gilib.), cereal solids, hydrolyzed, chamomile flower (matricaria chamomilla l.), chamomile flower (anthemis nobilis l.), chamomile flower, hungarian, oil (matricaria chamomilla l.), chamomile flower, oil (anthemis nobilis l.), chamomile flower, roman, extract (anthemis nobilis l.), char smoke flavor, cherry bark, wild, extract (prunus serotina ehrh.), cherry-laurel leaves (prunus laurocerasus l.), cherry laurel, oil (prunus laurocerasus l.) (ffpa), cherry-laurel water (prunus laurocerasus l.), cherry pits, extract (prunus spp.), chervil (anthriscus cerefolium (l.) hoffm.), chervil, extract (anthriscus cerefolium l.), chestnut leaves (castanea dentata (marsh.) borkh.), chestnut leaves, extract (castanea dentata (marsh.) borkh.), chestnut leaves, extract solid (castanea dentata (marsh.) borkh.), chicory, extract (cichorium intybus l.), chilte (cnidoscolus (also known as jatropha) spp.), chiquibul (manilkara zapotilla gilly), chirata (swertia chirata buch.-ham.), chirata, extract (swertia chirata buch.-ham.), chives (allium schoenoprasum l.), cinchona bark, red (cinchona succirubra pav. or its hybrids), cinchona bark, red, extract (cinchona succirubra pav. or its hybrids), cinchona bark, yellow (cinchona spp.), cinchona bark, yellow, extract (cinchona spp.), cinchona, extract (cinchona spp.), cinnamon (cinnamomum spp.), cinnamon bark, extract (cinnamomum spp.),

cinnamon bark, oil (cinnamomum spp.), cinnamon bark oleoresin, ceylon, chinese, or saigon (cinnamomum spp.), cinnamon leaf, oil (cinnamomum spp.), cinnamon leaf oil, rectified, citronella, oil (cymbopogon nardus rendle), citrus peels, extract (citrus spp.), clary (salvia sclarea l.), clary sage, absolute, clary, oil (salvia sclarea l.), clary sage, clove bud, extract (eugenia spp.), clove bud, oil (eugenia spp.), clove bud, oleoresin (eugenia spp.), clove leaf, oil (eugenia spp.), clover (trifolium spp.), clover, extract (trifolium spp.), clover herb distillate, clover, oil (trifolium spp.), clover tops, red, extract solid (trifolium pratense l.), cloves (eugenia spp.), clove stem, oil (eugenia spp.), , coca leaf, extract (decocainized) (erythroxylon coca lam.), cocoa extract, cocoa with dioctyl sodium sulfosuccinate, refined, coffee concentrate, pure, coffee extract (coffea spp.), coffee extract, solid, cognac, green, oil, cognac, white, oil, copaiba (south american spp. of copaifera l.), copaiba, oil (south american spp. of copaifera l.), coriander (coriandrum sativum l.), coriander leaf oil (coriandrum sativum l.), coriander, oil (coriandrum sativum l.), cork, oak (quercus spp.), corn silk extract (zea mays l.), corn silk, oil(zea mays l.), costmary (chrysanthemum balsamita l.), costus root, oil (saussurea lappa clarke), cottonseed flour, defatted, cottonseed flour, partially defatted, cooked, cottonseed flour, partially defatted, cooked, toasted, cottonseed kernels, glandless, raw, cottonseed kernels, glandless, roasted, cubeb (piper cubeba l. f.), cubeb, oil (piper cubeba l. f.), cubebol, cumin (cuminum cyminum l.), cumin, oil (cuminum cyminum l.), currant buds, black, absolute (ribes nigrum l.), currant juice, black, currant leaves, black (ribes nigrum l.), daidai peel oil, damiana leaves (turnera diffusa willd.), dandelion, fluid extract (taraxacum spp.), dandelion root, extract solid (taraxacum spp.), davana oil (artemesia pallens wall.), dehydrated beets, dill (anethum graveolens l.), dill, oil (anethum graveolens l.), dill seed, indian (anethum spp.), dill seed oil(anethum sowa roxb.), dittany of crete (origanum dictamnus l.), dittany (fraxinella) roots (dictamnus albus l.), dog grass, extract (agropyron repens (l.) beauv.), dragon's blood, extract (daemonorops spp. or other botanical sources), dried algae meal, elder flowers (sambucus canadensis l. or sambucus nigra l.), elder flowers, extract (sambucus canadensis l. or sambucus nigra l.), elder tree leaves (sambucus nigra l.), elecampane root, extract (inula helenium l.), elecampane root, oil (inula helenium l.), elemi, gum, elemi, oil (canarium spp.), erigeron, oil (erigeron canadensis l.), eucalyptol, eucalyptus, oil (eucalyptus globulus labille), eugenol, fennel, common (foeniculum vulgare mill.), fennel, sweet (foeniculum vulgare mill. var. dulce (d.c.) alef.), fennel, sweet, oil (foeniculum vulgare mill. var.

dulce (d.c.) alef.), fenugreek (trigonella foenum-graecum l.), fenugreek, extract (trigonella foenum-graecum l.), fenugreek, oleoresin (trigonella foenum-graecum l.), fir (pine) needles and twigs (abies sibirica ledeb.), fir needles and twigs, oil (abies spp.), fish oil (hydrogenated), fish protein concentrate, whole, fish protein isolate, fruit juice, galanga, greater (alpinia galanga willd), galangal root (alpinia spp.), galangal root, extract (alpinia spp.), galangal root, oil (alpinia spp.), galbanum, oil (ferula spp.), galbanum, resin (ferula spp.), gambir (uncaria gambir roxb.), gardenia gummifera distillate, garlic, garlic extract, garlic, oil (allium sativum l.), gelatin, genet, absolute (spartium junceum l.), genet, extract (spartium junceum l.), gentian root, extract (gentiana lutea l.), gentian, stemless (gentiana acaulis l.), geranium (pelargonium spp.), geranium, east indian, extract (cymbopogon martini stapf.), geranium, east indian, oil (cymbopogon martini stapf.), geranium extract (pelargonium spp.), geranium, oil (pelargonium spp.), geranium, rose, oil (pelargonium graveolens l'her.), germander, chamaedrys (teucrium chamaedrys l.), germander, chamaedrys, extract (teucrium chamaedrys l.), germander, chamaedrys, extract solid (teucrium chamaedrys l.), germander, golden (teucrium polium l.), ghatti, gum (anogeissus latifolia wall.), ginger (zingiber officinale rosc.), ginger, extract (zingiber officinale rosc.), ginger, oil (zingiber officinale rosc.), ginger, oleoresin (zingiber officinale rosc.), glycyrrhizin, ammoniated (glycyrrhiza spp.), grains of paradise (aframomum melegueta (rosc.) k. schum.), grape color extract, grape essence, natural, grapefruit essence, natural, grapefruit, extract, grapefruit, juice, grapefruit, oil (citrus paradisi macf.), grapefruit oil, conc., grapefruit, oil, terpeneless (citrus paradisi), grape seed extract, grape skin extract, ground limestone, guaiac gum (guaiacum spp.), guaiac gum, extract (guaiacum spp.), guaiac wood, extract (guaiacum spp.), guaiac wood, oil (guaiacum spp.), guarana, gum (paullinia cupana hbk), guarana seed, extract, guava (psidium spp.), guava extract, gum arabic, gutta hang kang (palaquium leiocarpum boerl. and p. oblongifolium burck.), haematococcus algae meal, haw bark, black, extract (viburnum prunifolium l.), heliopsis longipes extract, hemlock (tsuga spp.), hemlock needles and twigs, oil (tsuga spp.), hickory bark, extract (carya spp.), hickory smoke dist., honeysuckle extract, hops, extract (humulus lupulus l.), hops extract, modified, hops, extract solid (humulus lupulus l.), hops, oil (humulus lupulus l.), horehound extract (marrubium vulgare l.), horehound (marrubium vulgare l.), horehound solid, extract, horsemint leaves, extract (monarda spp.), horseradish (armoracia lapathifolia gilib.), horseradish oil, hyacinth, absolute

(hyacinthus orientalis l.), hyacinth flowers (hyacinthus orientalis l.), hyssop, extract (hyssopus officinalis l.), hyssop (hyssopus officinalis l.), hyssop, oil (hyssopus officinalis l.), iceland moss (cetraria islandica ach.), immortelle, absolute (helichrysum angustifolium dc), immortelle, extract (helichrysum angustifolium dc.), imperatoria (peucedanum ostruthium (l.) koch (imperatoria ostruthium l.)), iva (achillea moschata jacq.), iva, extract (achillea moschata jacq.), jambu oleoresin, japan wax, jasmine, absolute (jasminum spp.), jasmine, concrete (jasminum spp.), jasmine, oil (jasminum grandiflorum l.), jasmine, spiritus (jasminum grandiflorum l.), jelutong (dyera costulata hook, f. and d. lowii hook, f.), juniper (berries) (juniperus communis l.), juniper, extract (juniperus communis l.), juniper oil (juniperus communis l.), karaya, gum (sterculia urens roxb.), kelp, kola nut, extract (cola acuminata schott et endl.), labdanum, absolute (cistus spp.), labdanum, oil (cistus spp.), labdanum, oleoresin (cistus spp.), laurel berries (laurus nobilis l.), lavandin absolute, lavandin, concrete, lavandin, oil, lavender, absolute (lavandula officinalis chaix), lavender, concrete (lavandula officinalis chaix), lavender (lavandula officinalis chaix), lavender, oil (lavandula officinalis chaix), lavender, spike (lavandula latifolia bill.), lavender, spike, oil (lavandula spp.), leche caspi (couma macrocarpa barb. rodr.), leche de vaca (brosimum utile (h.b.k.) pittier, and poulsenia spp.), leek oil, lemon essence, lemon, extract (citrus limon (l.) burm. f.), lemon grass, oil (cymbopogon citratus dc. and cymbopogon flexuosusstapf), lemon, juice, lemon, oil (citrus limon (l.) burm. f.), lemon, oil, terpeneless (citrus limon (l.) burm. f.), lemon peel extract, lemon peel granules, lemon terpenes, lemon-verbena (lippia citriodora hbk.), lemon verbena, oil (lippia citriodora), licorice extract (glycyrrhiza spp.), licorice extract powder (glycyrrhiza spp.), licorice (glycyrrhiza spp.), lime, essence, lime, juice, lime juice, dehydrated, lime oil, distilled, lime oil, expressed, lime, oil, terpeneless (citrus aurantifolia (christman) swingle), linaloe wood, oil (bursera delpechiana poiss. and other bursera spp.), linden flowers, extract (tilia spp.), linden flowers (tilia glabra vent.), linden leaves (tillia spp.), litsea cubeba berry oil, locust (carob) bean gum, lovage, extract (levisticum officinale koch), lovage (levisticum officinale koch), lovage, oil (levisticum officinale koch), luo han fruit concentrate, lupulin (humulus lupulus l.), mace (myristica fragrans houtt.), mace, oil (myristica fragrans houtt.), mace, oleoresin (myristica fragrans houtt.), maidenhair fern (adiantum capillus-veneris l.), malt syrup (malt extract), mandarin, oil (citrus reticulata blanco), marigold, pot (calendula officinalis l.), marjoram, oleoresin (marjorana

hortensis moench (origanum majorana l.)), marjoram, pot (majorana onites (l.) benth. (origanum vulgare l.)), marjoram seed (majorana hortensis moench (origanum majorana l.)), marjoram, sweet (majorana hortensis moench (origanum majorana l.)), marjoram, sweet, oil (majorana hortensis moench (origanum majorana l.)), massaranduba balata (manilkara huberi (ducke) chevalier), massaranduba balata, solvent-free resin extract, massaranduba chocolate (manilkara solimoesensis gilly), massoia bark oil, mastic gum, mate, absolute (ilex paraguariensis st. hil.), mate, leaves, menhaden oil, menhaden oil, hydrogenated, menhaden oil, partially hydrogenated, menthol, mesquite wood extract, milk powder, whole, enzyme-modified, mimosa, absolute (acacia decurrens willd. var. dealbata), mimosa concrete (acacia decurrens willd. var. dealbata), mineral oil, white, molasses, concentrate, molasses, extract (saccharum officinarum l.), molasses (saccharum officinarum l.), mountain maple (acer spicatum lam.), mountain maple bark (acer spicatum lam.), mountain maple, extract solid (acer spicatum lam.), mullein flowers (verbascum spp.), mushroom oil, distilled, musk ambrette, musk, ketone, musk tonquin (moschus moschiferus l.), mustard, brown (brassica spp.), mustard, brown, extract (brassica spp.), mustard flour, mustard oil, mustard, oriental, mustard, yellow (brassica spp.), mustard, yellow, extract (brassica spp.), myrrh, extract, myrrh, gum (commiphora spp.), myrrh, oil (commiphora spp.), myrtle leaves (myrtus communis l.), myrtle, oil (myrtus communis l.), naringin, extract (citrus paradisi macf.), nisin preparation, nutmeg (myristica fragrans houtt.), nutmeg, oil (myristica fragrans houtt.), white, extract (quercus alba l.), oak moss, absolute (evernia spp.), oak moss, concrete (evernia prunasti spp.), oak wood, english (quercus robur l.), oat gum, oiticica oil, oleic acid, oleic acid, from tall oil fatty acids, olestra, oleyl alcohol, olibanum, absolute (boswellia spp.), olibanum, gum, resin (boswellia spp.), olibanum, oil (boswellia spp.), olibanum, resinoid (boswellia spp.), onion, oil (allium cepa l.), opopanax, gum, opopanax, non-specific, opopanax, oil, opopanax tincture, orange b, orange essence, natural, orange essence oil, natural, orange, extract, orange flowers, absolute (citrus aurantium l.), orange flowers, bitter (citrus aurantium l), orange, juice, orange leaf, absolute (citrus aurantium l.), orange, oil, distilled (citrus sinensis (l.) osbeck), orange, oil, terpeneless (citrus sinensis (l.) osbeck), orange peel, orange peel, bitter, extract (citrus aurantium l.), orange peel, bitter, oil (citrus aurantium l.), orange peel, sweet, extract (citrus sinensis (l.) osbeck), orange peel, sweet, oil (citrus sinensis (l.) osbeck), orange peel, sweet, oil, terpeneless (citrus sinensis (l.) osbeck), oregano, european (origanum spp.),

oregano (lippia spp., usually l. graveolens hbk), oregano (other genera including coleus, lantana and hyptis), origanum oil (extractive)(thymus capitatus hoff. et link), orin lactone, l-ornithine monochlorohydrate/ornithine, orris, concrete, liquid, oil (iris florentina l.), orris root, extract (iris florentina l.), osmanthus absolute, ox bile extract, pansy (viola tricolor l.), papain (carica papaya l.), paprika (capsicum annuum l.), paprika oleoresin (capsicum annuum l.), parsley, oil (petroselinum spp.), parsley, oleoresin (petroselinum spp.), parsley (petroselinum spp.), passion flower extract, passion flower (passiflora incarnata l.), patchouly, oil (pogostemon spp.), peach kernel, extract(prunus persica sieb et zucc.), peach leaves, extract (prunus persica (l.) batsch), peach leaves (prunus persica (l.) batsch), peanut oil, peanut stearine (arachis hypogaea l.), pecan shell flour, pennyroyal, oil, american (hedeoma pulegiodes (l.)), pennyroyal, oil, european (mentha pulegium l.), pepper, black, oil (piper nigrum l.), pepper, black, oleoresin (piper nigrum l.), pepper, black (piper nigrum l.), pepper, cayenne, peppermint leaves (mentha piperita l.), peppermint, oil (mentha piperita l.), peppermint plant, pepper, red, pepper, white, oil (piper nigrum l.), pepper, white, oleoresin (piper nigrum l.), pepper, white (piper nigrum l.), perilla leaf oil, petitgrain, lemon, oil (citrus limon (l.) burm. f.), petitgrain, mandarin, oil (citrus reticulata blanco var. mandarin), petitgrain, oil (citrus aurantium l.), pimenta leaf, oil (pimenta officinalis lindl.), 3-pinanone, pine bark, white, extract solid (pinus strobus l.), pine bark, white, oil (pinus strobus l.), pine bark, white (pinus strobus l.), pine needle, dwarf, oil (pinus mugo turra var. pumilio (haenke) zenari), pine, scotch, oil (pinus sylvestris l.), pine tar, oil (pinus spp.), pine, white, oil (pinus spp.), pomegranate bark, extract (punica granatum l.), poplar buds (populus spp.), poppy seed (papaver somniferum l.), prickly ash bark extract (xanthoxylum spp.), prickly ash bark, oil, protein, animal, hydrolyzed, protein hydrolysate, protein, milk, hydrolyzed, protein, vegetable, hydrolyzed, pulegone, extract (picrasma excelsa (sw.) planch or quassia amara l.), quebracho bark extract, quillaia extract (quillaja saponaria molina), quillaia (quillaja saponaria molina), quince seed, extract (cydonia spp.), rhatany, extract (krameria spp.), rhubarb, garden root (rheum rhaponticum l.), rhubarb root (rheum spp.), rose, absolute (rosa spp.), rose, bud (rosa spp.), rose flowers (rosa spp.), rose hips, extract (rosa spp.), rose leaves (rosa spp.), roselle (hibiscus sabdariffa l.), rosemary, extract (rosmarinus officinalis l.), rosemary, oil (rosemarinus officinalis l.), rosemary, oleoresin, rosemary (rosemarinus officinalis l.), rose, oil (rosa spp.), rose water, stronger (rosa centifolia l.), rosidinha (micropholis (also known as sideroxylon) spp.),

rosin, glycerol ester, rosin, gum, glycerol ester, rosin, gum or wood, partially hydrogenated, glycerol ester, rosin, gum or wood, partially hydrogenated, pentaerythritol ester, rosin, gum or wood, pentaerythritol ester, rosin, limed, rosin, methyl ester, partially hydrogenated, rosin, partially dimerized, calcium salt, rosin, partially dimerized, glycerol ester, rosin, partially hydrogenated, rosin (pinus spp.) and rosin derivatives, rosin, polymerized, glycerol ester, rosin, tall oil, glycerol ester, rosin, wood, rosin, wood, glycerol ester, rosin, wood, oil (ruta graveolens l.), rue (ruta graveolens l.), rum, saffron (crocus sativus l.), saffron, extract (crocus sativus l.), safrole-free extract of sassafras, safrole--prohibited, sage, greek (salvia triloba l.), sage, oil (salvia officinalis l.), sage, oleoresin (salvia officinalis l.), sage (salvia officinalis l.), sage, spanish, oil (salvia lavandulaefolia vahl.), sandalwood, red (pterocarpus santalinus l.f.), sandalwood, white (santalum album l.), sandalwood, yellow, oil (santalum album l.), sandarac (tetraclinis articulata (vahl.) mast.), sarcodactylis oil, sarsaparilla, extract (smilax spp.), sassafras bark, extract (safrole-free) (sassafras albidum (nutt.) nees), sassafras leaves (safrole-free) (sassafras albidum (nutt.) nees), sausage casing (hcl and cellulose fibers), savory, summer, oil (satureja hortensis l.), savory, summer, oleoresin (satureja hortensis l.), savory, summer (satureja hortensis l.), savory, winter, oil (satureja montana l.), savory, winter, oleoresin (satureja montana l.), savory, winter (satureja montana l.), schinus molle, oil (schinus molle l.), scotch spearmint oil, senna, alexandria (cassia acutifolia delile), serpentaria (aristolochia serpentaria l.), sesame (sesamum indicum l.), silver fir, needles and twigs, oil (abies alba mill.), silver-silver dragees, simaruba bark (simaruba amara aubl.), sloe berries, extract (prunus spinosa l.), sloe berries, extract solid (prunus spinosa l.), sloe berries (prunus spinosa l.), snakeroot, canadian, oil (asarum canadense l.), soya bean oil fatty acids, hydroxylated, soya fatty acid amine, ethoxylated, soybean oil, epoxidized, soybean oil, hydrogenated, soy protein concentrate, enzyme activated, soy protein, isolate, spearmint, extract (mentha spicata l.), spearmint (mentha spicata l.), spearmint, oil (mentha spicata l.), spikenard extract, spruce needles and twigs, extract (picea spp.), spruce needles and twigs, oil (picea spp.), st. johnswort leaves, flowers and caulis (hypericum perforatuml.), storax extract (liquidambar spp.), storax (liquidambar spp.), storax oil, sugar beet juice extract, sugar beet extract flavor base, sweet blackberry leaves extract, tagetes meal & extract, tagetes, oil (tagetes spp.), tallow alcohol, hydrogenated, tallow, beef, tallow flakes, tallow, hydrogenated, tallow, hydrogenated, oxidized or sulfated, tamarind extract

(tamarindus indica l.), tamarinds, tangerine, essence, tangerine, extract (citrus reticulata blanco), tangerine, oil (citrus reticulata blanco), tannic acid, tansy, oil (tanacetum vulgara l.), tansy (tanacetum vulgara l.), tarragon (artemisia dracunculus l.), tarragon extract (artemisia dracunculus l.), tarragon oil (artemisia dracunculus l.), tea extract (thea sinensis l.), tea tree oil (melaleuca alternifolia), blessed (cnicus benedictus l.), thistle, blessed, extract (cnicus benedictus l.), thistle, blessed, extract solid (cnicus benedictus l.), thistle, blessed, oil (cnicus benedictus l.), thyme, extract, thyme oil (thymus vulgaris l. and t. zygis var. gracilis boiss.), thyme oleoresin, thyme (thymus serpyllum l.), thyme (thymus vulgaris l.), thyme, wild or creeping, extract (thymus serpyllum l.), thymol, balsam, extract (myroxylon spp.), tolu, balsam, gum (myroxylon spp.), tragacanth, gum (astragalus spp.), trefoil, sweet (melilotus coerulea), triacetin (glycerol triacetate), oil (polianthes tuberosa l.), tunu (castilla fallax cook), turmeric (curcuma longa l.), turmeric, extract (curcuma longa l.), turmeric, oleoresin (curcuma longa l.), valerian root, extract (valeriana officinalis l.), valerian root, oil (valeriana officinalis l.), vanilla, absolute (vanilla spp.), vanilla, extract (vanilla spp.), vanilla, oleoresin (vanilla spp.), vanilla (vanilla spp.), vegetable juice, veronica (veronica officinalis l.), vervain, european (verbena officinalis l.), vetiver, oil (vetiveria zizanioides stapf), vetiverol, vetiver (vetiveria zizaniodes stapf), violet leaves absolute (viola odorata l.), violet, swiss (viola calcarata l.), walnut hull, extract (juglans spp.), walnut leaves, extract (juglans spp.), wheat gluten, whey, whey, delactosed, whey, demineralized, whey, partially dimineralized and partially delactosed, whey protein concentrate, wintergreen, extract (gaultheria procumbens l.), wintergreen, oil (gaultheria procumbens l.), woodruff, sweet (asperula odorata l.), wort, yarrow, herb (achillea millefolium l.), yarrow, oil (achillea millefolium l.), yeast autolysate, yeast, dried irradiated, yeast extract autolyzed, yeast-malt sprout extract, yeasts, yeasts, dried, yerba santa, fluid extract (eriodictyon californicum (hook and arn) torr), ylang-ylang, oil (cananga odorata hook. f. and thomas), yucca, joshua-tree (yucca brevifolia engelm.), yucca, mohave, extract (yucca spp.), and acai berry extract.

[0212] In some embodiments, the plant or animal product is a culinary herb or spice. Representative culinary herbs and spices include but are not limited to: carrot, dehydrated carrot, carrot extract, parsnip, dehydrated parsnip, parsnip extract, onion, dehydrated onion, onion powder, onion flakes, onion extract, garlic, dehydrated garlic, garlic flakes, garlic powder, garlic extract, buttermilk, buttermilk powder, buttermilk solids, whey, whey powder, whey solids, milk,

reduced fat milk, milk powder, milk solids, cream, cheese, cheese powder, cheese solids, cheese cultures, annatto, turmeric, sodium caseinate, milk protein, enzymatic digest of milk protein, tomato, tomato paste, tomato powder, tomato sauce, tomato extract, dehydrated tomato, sour cream, sour cream solids, caramel color, soy flour, chives, dehydrated chives, chive powder, ajwain, carom seeds (trachyspermum ammi), akudjura (solanum centrale), alkanet (alkanna tinctoria), for red color, alligator pepper, mbongo spice (mbongochobi), hepper pepper (aframomum danielli, a. citratum, a. exscapum), allspice (pimenta dioica), angelica (angelica archangelica), anise (pimpinella anisum), anise hyssop (agastache foeniculum), aniseed myrtle (syzygium anisatum), annatto (bixa orellana), apple mint (mentha suaveolens, mentha × rotundifolia and mentha × villosa), artemisia (artemisia spp.), asafoetida (ferula assafoetida), asarabacca (asarum europaeum), avens (geum urbanum), avocado leaf (persea americana), barberry (berberis vulgaris and other berberis spp.), basil, sweet (ocimum basilicum), basil, holy (ocimum tenuiflorum), basil, lemon (ocimum × citriodorum), basil, thai (o. basilicum var. thyrsiflora), bay leaf (laurus nobilis), bay leaf, indian, tejpat, malabathrum, bee balm (monarda didyma), boldo (peumus boldus), borage (borago officinalis), blue fenugreek, blue melilot (trigonella caerulea), caper (capparis spinosa), caraway (carum carvi), cardamom (elettaria cardamomum), cardamom, black (amomum subulatum, amomum costatum), cassia (cinnamomum aromaticum), catnip (nepeta cataria), cayenne pepper (capsicum annuum), celery leaf (apiumi graveolens), celery seed (apiumi graveolens), chervil (anthriscus cerefolium), chicory (cichorium intybus), chili pepper (capsicum spp.), cicely, sweet cicely (myrrhis odorata), cilantro, coriander greens, coriander herb (coriandrum sativum), cinnamon, indonesian (cinnamomum burmannii, cassia vera), cinnamon, saigon or vietnamese (cinnamomum loureiroi), cinnamon, true or ceylon (cinnamomum verum, c. zeylanicum), cinnamon, white (canella winterana), cinnamon myrtle (backhousia myrtifolia), clary, clary sage (salvia sclarea), clove (syzygium aromaticum), coriander seed (coriandrum sativum), coriander, vietnamese (persicaria odorata), costmary (tanacetum balsamita), cubeb pepper (piper cubeba), cudweed (gnaphalium spp.), culantro, culangot, long coriander (eryngium foetidum), cumin (cuminum cyminum), curry leaf (murraya koenigii), curry plant (helichrysum italicum), dill herb or weed (anethum graveolens), dill seed (anethum graveolens), elderflower (sambucus spp.), epazote (dysphania ambrosioides), fennel (foeniculum vulgare), fenugreek (trigonella foenum-graecum),

filé powder, gumbo filé (sassafras albidum), fingerroot, krachai, temu kuntji (boesenbergia rotunda), galangal, greater (alpinia galanga), galangal, lesser (alpinia officinarum), galingale (cyperus spp.), garlic chives (allium tuberosum), ginger (zingiber officinale), ginger, torch, bunga siantan (etlingera elatior) , golpar, persian hogweed (heracleum persicum) , grains of paradise (aframomum melegueta), grains of selim, kani pepper (xylopia aethiopica), horseradish (armoracia rusticana), houttuynia cordata (vietnam), huacatay, mexican marigold, mint marigold (tagetes minuta), hyssop (hyssopus officinalis), indonesian bay leaf, daun salam (syzygium polyanthum), jasmine flowers (jasminum spp.), jiaogulan (gynostemma pentaphyllum), jimbu (allium hypsistum) , juniper berry (juniperus communis), kaffir lime leaves, makrud lime leaves (citrus hystrix), kala zeera (or kala jira), black cumin (bunium persicum) , kawakawa seeds (macropiper excelsum), keluak, kluwak, kepayang (pangium edule), kencur, galangal, kentjur (kaempferia galanga), kinh gioi, vietnamese balm (elsholtzia ciliata), kokam seed (garcinia indica), korarima, ethiopian cardamom, false cardamom (aframomum corrorima), koseret leaves (lippia adoensis) , lavender (lavandula spp.), lemon balm (melissa officinalis), lemon ironbark (eucalyptus staigeriana), lemon myrtle (backhousia citriodora), lemon verbena (lippia citriodora), lemongrass (cymbopogon citratus, c. flexuosus, and other cymbopogon spp.), leptotes bicolor , lesser calamint (calamintha nepeta), nipitella, nepitella , licorice, liquorice (glycyrrhiza glabra), lime flower, linden flower (tilia spp.), lovage (levisticum officinale), mace (myristica fragrans), mahleb, st. lucie cherry (prunus mahaleb), marjoram (origanum majorana), mastic (pistacia lentiscus), mint (mentha spp.), 25 species, hundreds of varieties, mountain horopito (pseudowintera colorata), 'pepper-plant', musk mallow, abelmosk (abelmoschus moschatus), mustard, black, mustard plant, mustard seed (brassica nigra), mustard, brown, mustard plant, mustard seed (brassica juncea), mustard, white, mustard plant, mustard seed (sinapis alba), mustard, yellow (brassica hirta = sinapis alba), nigella, kalonji, black caraway, black onion seed (nigella sativa), njangsa, djansang (ricinodendron heudelotii), nutmeg (myristica fragrans), olida (eucalyptus olida) , oregano (origanum vulgare, o. heracleoticum, and other species), oregano, cuban (plectranthus amboinicus), orris root (iris germanica, i. florentina, i. pallida), pandan flower, kewra (pandanus odoratissimus), pandan leaf, screwpine (pandanus amaryllifolius), paprika (capsicum annuum), paracress (spilanthes acmella, soleracea), parsley (petroselinum crispum), pepper, black, white, and green (piper nigrum), pepper, brazilian, or pink pepper

(schinus terebinthifolius), pepper, dorrigo (tasmannia stipitata), pepper, long (piper longum), pepper, mountain, cornish pepper leaf (tasmannia lanceolata), peppermint (mentha piperata), peppermint gum leaf (eucalyptus dives), perilla, shiso (perilla spp.), peruvian pepper (schinus molle), quassia (quassia amara), rice paddy herb (limnophila aromatica), rosemary (rosmarinus officinalis), rue (ruta graveolens), safflower (carthamus tinctorius), saffron (crocus sativus), trade and use of saffron, sage (salvia officinalis), saigon cinnamon (cinnamomum loureiroi), salad burnet (sanguisorba minor), salep (orchis mascula), sassafras (sassafras albidum), savory, summer (satureja hortensis), savory, winter (satureja montana), shiso (perilla frutescens), silphium, silphion, laser, laserpicium, lasarpicium , sorrel (rumex acetosa), sorrel, sheep (rumex acetosella), spearmint (mentha spicata), spikenard (nardostachys grandiflora or n. jatamansi), star anise (illicium verum), sumac (rhus coriaria), sweet woodruff (galium odoratum), szechuan pepper, sichuan pepper (zanthoxylum piperitum), tarragon (artemisia dracunculus), thyme (thymus vulgaris), thyme, lemon (thymus × citriodorus), turmeric (curcuma longa), vanilla (vanilla planifolia), voatsiperifery (piper borbonense), wasabi (wasabia japonica), water-pepper, smartweed (polygonum hydropiper), watercress (rorippa nasturtium-aquatica), wattleseed , wild thyme (thymus serpyllum), willow herb (epilobium parviflorum), wintergreen (gaultheria procumbens), wood avens, herb bennet (geum urbanum), woodruff (galium odoratum), wormwood, absinthe (artemisia absinthium), yerba buena, yarrow (achillea millefolium), za'atar (herbs from the genera origanum, calamintha, thymus, and satureja), zedoary (curcuma zedoaria), herb mixes, curry, tandoor masala, garam masala, chaat masala, tikka masala, masala dosa, paan masala, biryani masala, berbere, jerk seasonings, and spice rubs.

[0213] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more fats, oils, or emulsions. Representative fats, oils, and emulsions include but are not limited to: corn oil, peanut oil, soybean oil, palm oil, cottonseed oil, coconut oil, canola oil, rapeseed oil, olive oil, safflower oil, sunflower oil, sesame oil, almond oil, beech nut oil, brazil nut oil, cashew oil, linseed oil, flaxseed oil, hazelnut oil, mongongo nut oil, pecan oil, pine nut oil, pistachio oil, walnut oil, grapeseed oil, grapefruit seed oil, lemon oil, orange oil, mineral oil, petrolatum, cucumber oil, bitter gourd oil, bottle gourd oil, buffalo gourd oil, butternut squash oil, squash oil, pumpkinseed oil, watermelon seed oil, hemp oil, castor oil, butter, lard, margarine, cocoa butter, butterfat, whale oil, sperm oil, fish

oil, cod liver oil, shark liver oil, krill oil, shrimp oil, codfish oil, salmon oil, herring oil, anchovy oil, smelt oil, candlefish oil, sprat oil, sardine oil, mackerel oil, tilefish oil, tuna (Thunnus) oil, swordfish oil, macadamia oil, acai oil, blackcurrant seed oil, borage seed oil, evening primrose oil, amaranth oil, wheat oil, wheat germ oil, apricot oil, argan oil, artichoke oil, avocado oil, babassu oil, ben oil, tallow nut oil, borneo tallow nut oil, carob pod oil, carob oil, coriander seed oil, false flax oil, kapok seed oil, lallemantia oil, meadowfoam seed oil, mustard oil, okra seed oil, perilla seed oil, pequi oil, prune kernel oil, quinoa oil, ramtil oil, rice bran oil, rice oil, barley oil, barley seed oil, tea oil, tea tree oil, thistle oil, jatropha oil, cork tree oil, apple seed oil, balanos oil, bladderpod oil, brucea javanica oil, burdock oil, candlenut oil, carrot seed oil, chaulmoogra oil, crambe oil, cuphea oil, jojoba oil, mango oil, palm kernel oil, mowrah butter, neem oil, orange oil, rosehip seed oil, sea buckthorn oil, shea butter, snowball seed oil, tall oil, tamanu oil, tonka bean oil, chicken fat, schmaltz, beef fat, lamb fat, animal fat, tallowate, tallow, beef tallow, bacon fat, ham fat, suet, milk fat, olestra, stearic acid, lauric acid, linoleic acid, palmitic acid, palmitoleic acid, myristic acid, goose fat, duck fat, drippings from roasting, mayonnaise, and oil-in water or water-in oil emulsions.

[0214] In some embodiments, the composition comprises a sweet compound or sweet flavor enhancing compound and one or more GRAS compounds (generally recognized as safe). Representative GRAS compounds include but are not limited to: Acacia Gum (Acacia Senegal (L.) Willd.), Acetal, Acetaldehyde, Propyl Phenethyl Acetal, Acetanisole, Acetic Acid, (Tri-)Acetin, Acetoin, Acetophenone, Aconitic Acid, Adipic Acid, Agar (Gelidium Spp.), Alfalfa Extract (Medicago Sativa L.), Algin (Laminaria Spp. And Other Kelps), Alginates, Sodium, Calcium, And Ammonium, Allspice (Pimenta Officinalis Lindl.), Allspice Oil (Pimenta Officinalis Lindl.), Allspice Oleoresin (Pimenta Officinalis Lindl.), Allyl Anthranilate, Allyl Butyrate, Allyl Cinnamate, Allyl Cyclohexaneacetate, Allyl Cyclohexanebutyrate, Allyl Cyclohexanehexanoate, Allyl Cyclohexanepropionate, Allyl Cyclohexanevalerate, Allyl Disulfide, Allyl 2-Ethylbutyrate, Allyl 2-Furoate, Allyl Heptanoate, Allyl Hexanoate, Allyl Alpha-Ionone, Allyl Isothiocyanate, Allyl Mercaptan, Allyl Nonanoate, Allyl Octanoate, Allyl Phenoxyacetate, Allyl Phenylacetate, Allyl Propionate, Allyl Sorbate, Allyl Sulfide, Allyl Tiglate, Allyl 10-Undecenoate, Allyl Isovalerate, Almond Oil, Bitter (Ffpa) (Prunus Spp.), Aloe Extract (Aloe Spp.), Althea Root (Althea Officinalis L.), Ambergris Tincture, Ambrette Absolute

Oil (Hibiscus Abelmoschus L.), Ambrette Seed Oil (Hibiscus Abelmoschus L.), Ambrette Tincture (Hibiscus Abelmoschus L.), Ammonium Sulfide, Ammonium Isovalerate, Isoamyl Acetate, Amyl Alcohol, Isoamyl Alcohol, Isoamyl Benzoate, Amyl Butyrate, Isoamyl Butyrate, Alpha-Amylcinnamaldehyde, Alpha-Amylcinnamaldehyde Dimethyl Acetal, Isoamyl Cinnamate, Alpha-Amylcinnamyl Acetate, Alpha-Amylcinnamyl Alcohol, Alpha-Amylcinnamyl Formate, Alpha-Amylcinnamyl Isovalerate, Amyl Formate, Isoamyl Formate, Isoamyl 4(2-Furan)Butyrate, Isoamyl 3(2-Furan)Propionate, Amyl 2-Furoate, Amyl Heptanoate, Amyl Hexanoate, Isoamyl Hexanoate, 2-Amyl-5 Or 6-Keto-1,4-Dioxane, Isoamyl Laurate, Isoamyl Nonanoate, Amyl Octanoate, Isoamyl Octanoate, Isoamyl Phenylacetate, Isoamyl Propionate, Isoamyl Pyruvate, Isoamyl Salicylate, Isoamyl Isovalerate, Trans-Anethole, Angelica Root Extract (Angelica Archangelica L.), Angelica Root Oil (Angelica Archangelica L.), Angelica Seed Extract (Angelica Archangelica L.), Angelica Seed Oil (Angelica Archangelica L.), Angelica Stem Oil (Angelica Archangelica L.), Angostura Extract (Galipea Offincinalis Hancock), Anise (Pimpinella Anisum L.), Anise Oil (Pimpinella Anisum L.), Anise, Star (Illicium Verum Hook, F.), Anise, Star, Oil (Illicium Verum Hook, F.), Anisole, P-Anisyl Acetate, Anisyl Alcohol, Anisyl Butyrate, Anisyl Formate, Anisyl Propionate, Annatto Extract (Bixa Orellana L.), Annatto Seed (Bixa Orellana L.), Apricot Kernel Oil (Prunus Armeniaca L.), Asafetida Fluid Extract (Ferula Assafoetida L.), Asafetida Gum (Ferula Assafoetida L.), Asafoetida Oil (Ferula Asafoetida L.), Ascorbic Acid, Ash Bark, Prickly, Extract (Xanthoxylum Spp.), Balm (Melissa Officinalis L.), Balm Leaves Extract (Melissa Officinalis L.), Balm Oil (Melissa Officinalis L.), Balsam Fir Oil (Abies Balsamea (L.) Mill.), Balsam Fir Oleoresin (Abies Balsamea (L.) Mill.), Balsam, Peru (Myroxylon Pereirae Klotzsch), Balsam Oil, Peru (Myroxylon Pereirae Klotzsch), Basil (Ocimum Basilicum L.), Basil Oil (Ocimum Basilicum L.), Basil Oleoresin (Ocimum Basilicum L.), Bay Leaves, West Indian, Extract (Pimenta Acris Kostel), Bay Leaves, West Indian, Oil (Pimenta Acris Kostel), Bay Leaves, West Indian, Oleoresin (Pimenta Acris Kostel), Bay, Sweet (Laurus Nobilis L.), Bay Oil, Sweet (Laurus Nobilis L.), Beeswax, White (Apis Mellifera L.), Benzaldehyde, Benzaldehyde Dimethyl Acetal, Benzaldehyde Glyceryl Acetal, Benzaldehyde Propylene Glycol Acetal, Benzoic Acid, Benzoin, Benzoin Resinoid, Benzophenone, Benzyl Acetate, Benzyl Acetoacetate, Benzyl Alcohol, Benzyl Benzoate, Benzyl Butyl Ether, Benzyl Butyrate, Benzyl Isobutyrate, Benzyl Cinnamate,

Benzyl 2,3-Dimethylcrotonate, Benzyl Ethyl Ether, Benzyl Formate, 3-Benzyl-4-Heptanone, Benzyl Mercaptan, Benzyl Methoxyethyl Acetal, Benzyl Phenylacetate, Benzyl Propionate, Benzyl Salicylate, Benzyl Isovalerate, Bergamot Oil, Birch, Sweet, Oil (Betula Lenta L.), Blackberry Bark Extract (Rubus, Spp. Of Section Eubatus), Bois De Rose Oil, Borneol, Isoborneol, Bornyl Acetate, Isobornyl Acetate, Bornyl Formate, Isobornyl Formate, Isobornyl Propionate, Bornyl Valerate, Bornyl Isovalerate (Endo-), Isobornyl Isovalerate, Boronia Absolute (Boronia Megastigma Nees), Buchu Leaves Oil (Barosma Spp.), 2-Butanone, Butter Acids, Butter Esters, Butter Starter Distillate, Butyl Acetate, Isobutyl Acetate, Butyl Acetoacetate, Isobutyl Acetoacetate, Butyl Alcohol, Isobutyl Alcohol, Isobutyl Angelate, Butyl Anthranilate, Isobutyl Anthranilate, Butylated Hydroxyanisole, Butylated Hydroxytoluene, Isobutyl Benzoate, Butyl Butyrate, Isobutyl Butyrate, Butyl Isobutyrate, Isobutyl Isobutyrate, Butyl Butyryllactate, Alpha-Butylcinnamaldehyde, Butyl Cinnamate, Isobutyl Cinnamate, Butyl 2-Decenoate, Butyl Ethyl Malonate, Butyl Formate, Isobutyl Formate, Isobutyl 3-(2-Furan)Propionate, Butyl Heptanoate, Isobutyl Heptanoate, Butyl Hexanoate, Isobutyl Hexanoate, Butyl P-Hydroxy Benzoate, 2-Butyl-5- Or 6-Keto-1,4-Dioxane, Butyl Lactate, Butyl Laurate, Butyl Levulinate, Alpha-Isobutylphenethyl Alcohol, Butyl Phenylacetate, Isobutyl Phenylacetate, Butyl Propionate, Isobutyl Propionate, Isobutyl Salicylate, Butyl Stearate, Butyl Sulfide, Butyl 10-Undecenoate, Butyl Valerate, Butyl Isovalerate, Butyraldehyde, Isobutyraldehyde, Butyric Acid, Isobutyric Acid, (Tri-)Butyrin, Caffeine, Cajeput Oil (Melaleuca Leucadendron L.), Calcium Acetate, Camphene, D-Camphor, Camphor, Japanese, White, Oil (Cinnamomum Camphora (L.) Nees Et Eberm.), Cananga Oil, Capsicum Extract (Capsicum Spp.), Capsicum Oleoresin (Capsicum Spp.), Caramel Color, Caraway (Carum Carvi L.), Caraway, Black (Nigella Sativa L.), Caraway Oil, Carboxymethylcellulose, Cardamom (Elettaria Cardamomum (L.) Maton), Cardamom Seed Oil (Elettaria Cardamomum (L.) Maton), Carmine (Coccus Cacti L.), Carob Bean Extract (Ceratonia Siliqua L.), Carrot Oil, Carvacrol, Carvacryl Ethyl Ether, Carveol, 4-Carvomenthenol, Carvone, Carvyl Acetate, Carvyl Propionate, Beta-Caryophyllene, Cascara Bitterless Extract (Rhamnus Purshiana Dc.), Cascarilla Bark Extract (Croton Spp.), Cascarilla Bark Oil (Croton Spp.), Cassia (Cinnamomum Cassia Blume), Cassia Bark Extract (Cinnamomum Cassia Blume), Cassia Bark Oil, Cassia Buds (Cinnamomum Cassia Blume), Cassie Absolute (Acacia Farnesiana (L.) Willd.), Castoreum Oil, Castoreum, Liquid

(Castor Spp.), Castor Oil (Ricinus Communis L.), Catechu Extract (Acacia Catechu Willd.), Catechu Powder (Acacia Catechu Willd.), Cayenne (Capsicum Annuum L. Var. Longum Sendt), Cedar Leaf Oil (Thuja Occidentalis L.), Celery Seed (Apium Graveolens L.), Celery Seed Extract (Apium Graveolens L.), Celery Seed Extract Solid (Apium Graveolens L.), Celery Seed Oil, Chamomile Flower, English, Oil (Anthemis Nobilis L.), Chamomile Flower, Hungarian, Oil (Matricaria Chamomilla L.), Chamomile Flower, Roman, Extract (Anthemis Nobilis L.), Chamomile Flower, Roman, Oil (Anthemis Nobilis L.), Cherry Bark, Wild, Extract (Prunus Serotina Ehrh.), Cherry Laurel Oil (Ffpa) (Prunus Laurocerasus L.), Cherry Pits Extract (Prunus Spp.), Chervil (Anthriscus Cerefolium (L.) Hoffm.), Chicory Extract (Cichorium Intybus L.), Cinchona Bark Red (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark Red Extract (Cinchona Succirubra Pav. Or Its Hybrids), Cinchona Bark Yellow (Cinchona Spp.), Cinchona Bark Yellow Extract (Cinchona Spp.), Cinchona Extract (Cinchona Spp.), Cinnamaldehyde, Cinnamaldehyde Ethylene Glycol Acetal, Cinnamic Acid, Cinnamon (Cinnamomum Spp.), Cinnamon Bark Extract (Cinnamomum Spp.), Cinnamon Bark Oil, Cinnamon Leaf Oil, Cinnamyl Acetate, Cinnamyl Alcohol, Cinnamyl Butyrate, Cinnamyl Isobutyrate, Cinnamyl Cinnamate, Cinnamyl Formate, Cinnamyl Phenylacetate, Cinnamyl Propionate, Cinnamyl Isovalerate, Citral, Citral Diethyl Acetal, Citral Dimethyl Acetal,

[0215] Citric Acid, Citronellal, Citronella Oil, Dl-Citronellol, Citronelloxyacetaldehyde, Citronellyl Acetate, Citronellyl Butyrate, Citronellyl Isobutyrate, Citronellyl Formate, Citronellyl Phenylacetate, Citronellyl Propionate, Citronellyl Valerate, Citrus Peels Extract (Citrus Spp.), Civet Absolute (Viverra Civetta Schreber And Viverra Zibetha Schreber), Clary (Salvia Sclarea L.), Clary Oil (Salvia Sclarea L.), Clove Bud Extract (Eugenia Spp.), Clove Bud Oil (Eugenia Spp.), Clove Bud Oleoresin (Eugenia Spp.), Clove Leaf Oil, Madagascar, Clover Tops Red Extract Solid (Trifolium Pratense L.), Cloves (Eugenia Spp.), Clove Stem, Oil (Eugenia Spp.), Coca Leaf Extract (Decocainized) (Erythroxylon Coca Lam.), Cognac Oil, Green, Cognac Oil, White, Coriander (Coriandrum Sativum L.), Coriander Oil (Coriandrum Sativum L.), Corn Silk (Zea Mays L.), Costus Root Oil (Saussurea Lappa Clarke), P-Cresol, Cubebs (Piper Cubeba L. F.), Cubeb Oil (Piper Cubeba L. F.), Cumin (Cuminum Cyminum L.), Cuminaldehyde, Cumin Black (Nigella Sativa L.), Cumin Oil, Curacao Peel Extract (Citrus Aurantium L.), Curacao Peel Oil (Citrus Aurantium L.), Currant Buds Black

Absolute (Ribes Nigrum L.), Cyclohexaneacetic Acid, Cyclohexaneethyl Acetate, Cyclohexyl Acetate, Cyclohexyl Anthranilate, Cyclohexyl Butyrate, Cyclohexyl Cinnamate, Cyclohexyl Formate, Cyclohexyl Propionate, Cyclohexyl Isovalerate, P-Cymene, Dandelion Fluid Extract (Taraxacum Spp.), Dandelion Root Extract Solid (Taraxacum Spp.), Davana Oil (Artemisia Pallens Wall.), Gamma-Decalactone, Delta-Decalactone, Decanal, Decanal Dimethyl Acetal, Decanoic Acid, 1-Decanol, 2-Decenal, Decyl Acetate, Decyl Butyrate, Decyl Propionate, Diacetyl, Dibenzyl Ether, 4,4-Dibutyl-Gamma-Butyrolactone, Dibutyl Sebacate, Diethyl Malate, Diethyl Malonate, Diethyl Sebacate, Diethyl Succinate, Diethyl Tartrate, Dihydrocarveol (Isomer Unspecified), Dihydrocarvyl Acetate, Dihydrocoumarin, Dill (Anethum Graveolens L.), Dill Oil (Anethum Graveolens L.), Dill Seed Indian (Anethum Spp.), M-Dimethoxybenzene, P-Dimethoxybenzene, 2,4-Dimethylacetophenone, Alpha,Alpha-Dimethylbenzyl Isobutyrate, 2,6-Dimethyl-5-Heptenal, 2,6-Dimethyloctanal, 3,7-Dimethyl-1-Octanol, Alpha,Alpha-Dimethylphenethyl Acetate, Alpha,Alpha-Dimethylphenethyl Alcohol, Alpha,Alpha-Dimethylphenethyl Butyrate, Alpha,Alpha-Dimethylphenethyl Formate, Dimethyl Succinate, 1,3-Diphenyl-2-Propanone, Disodium Phosphate, Dittany Of Crete (Origanum Dictamnus L.), Gamma-Dodecalactone, Delta-Dodecalactone, 2-Dodecenal, Doggrass Extract (Agropyron Repens (L.) Beauv.), Dragon's Blood Extract (Daemonorops Spp. Or Other Botanical Sources), Dulse (Rhodymenia Palmata (L.) Grev.), Elder Flowers (Sambucus Canadensis L. Or Sambucus Nigra L.), Elemi Gum (Canarium Spp.), Elemi Oil (Canarium Spp.), Erigeron Oil (Erigeron Candensis L.), Erythrobic Acid, Estragole, Estragon Oil (Artemisia Dracunculus L.), P-Ethoxybenzaldehyde, Ethyl Acetate, Ethyl Acetoacetate, Ethyl 2-Acetyl-3-Phenylpropionate, Ethyl Aconitate (Mixed Esters), Ethyl Acrylate, Ethyl Alcohol, Ethyl P-Anisate, Ethyl Anthranilate, Ethyl Benzoate, Ethyl Benzoylacetate, Alpha-Ethylbenzyl Butyrate, 2-Ethylbutyl Acetate, 2-Ethylbutyraldehyde, Ethyl Butyrate, Ethyl Isobutyrate, 2-Ethylbutyric Acid, Ethyl Cinnamate, Ethyl Cyclohexanepropionate, Ethyl Decanoate, Ethyl Formate, Ethyl 3(2-Furyl)Propanoate, 4-Ethylguaiacol, Ethyl Heptanoate, 2-Ethyl-2-Heptenal, Ethyl Hexanoate, Ethyl Lactate, Ethyl Laurate, Ethyl Levulinate, Ethyl 2-Methylbutyrate, Ethyl Methylphenylglycidate, Ethyl Myristate, Ethyl Nitrite, Ethyl Nonanoate, Ethyl 2-Nonynoate, Ethyl Octanoate, Ethyl Oleate, Ethyl Palmitate, Ethyl Phenylacetate, Ethyl 4-Phenylbutyrate, Ethyl 3-Phenylglycidate, Ethyl 3-Phenylpropionate, Ethyl Propionate, Ethyl Pyruvate, Ethyl

Salicylate, Ethyl Sorbate, Ethyl Tiglate, Ethyl 10-Undecenoate, Ethyl Valerate, Ethyl Isovalerate, Ethyl Vanillin, Eucalyptol, Eucalyptus Oil (Eucalyptus Globulus Labille), Eugenol, Isoeugenol, Eugenyl Acetate, Isoeugenyl Acetate, Eugenyl Benzoate, Isoeugenyl Ethyl Ether, Eugenyl Formate, Isoeugenyl Formate, Eugenyl Methyl Ether, Isoeugenyl Methyl Ether, Isoeugenyl Phenylacetate, Farnesol, D-Fenchone, Fenchyl Alcohol, Fennel, Common(Foeniculum Vulgare Mill.), Fennel, Sweet (Foeniculum Vulgare Mill. Var Dulce (D.C.), Fennel Oil, Sweet (Foeniculum Vulgare Mill. Var. Dulce Dc.), Fenugreek (Trigonella Foenum-Graecum L.), Fenugreek Extract (Trigonella Foenum-Graecum L.), Fenugreek Oleoresin (Trigonella Foenumgraecum L.), Formic Acid, Fumaric Acid, Furfural, Furfuryl Acetate, Furfuryl Alcohol, 2-Furfurylidene Butyraldehyde, Furfuryl Mercaptan, 3-(2-Furyl)Acrolein, 4-(2-Furyl)-3-Buten-2-One, (2-Furyl)-2-Propanone, Fusel Oil, Refined, Galangal Root (Alpinia Spp.), Galangal Root Extract (Alpinia Spp.), Galangal Root Oil (Alpinia Spp.), Galbanum Oil (Ferula Spp.), Galbanum Resin (Ferula Spp.), Garlic Oil (Allium Sativum L.), Genet Absolute (Spartium Junceum L.), Genet Extract (Spartium Junceum L.), Gentian Root Extract (Gentiana Lutea L.), Geraniol, Elemi Gum (Canarium Spp.), Elemi Oil (Canarium Spp.), Erigeron Oil (Erigeron Candensis L.), Erythrobic Acid, Estragole, Estragon Oil (Artemisia Dracunculus L.), P-Ethoxybenzaldehyde, Ethyl Acetate, Ethyl Acetoacetate, Ethyl 2-Acetyl-3-Phenylpropionate, Ethyl Aconitate (Mixed Esters), Ethyl Acrylate, Ethyl Alcohol, Ethyl P-Anisate, Ethyl Anthranilate, Ethyl Benzoate, Ethyl Benzoylacetate, Alpha-Ethylbenzyl Butyrate, 2-Ethylbutyl Acetate, 2-Ethylbutyraldehyde, Ethyl Butyrate, Ethyl Isobutyrate, 2-Ethylbutyric Acid, Ethyl Cinnamate, Ethyl Cyclohexanepropionate, Ethyl Decanoate, Ethyl Formate, Ethyl 3(2-Furyl)Propanoate, 4-Ethylguaiacol, Ethyl Heptanoate, 2-Ethyl-2-Heptenal, Ethyl Hexanoate, Ethyl Lactate, Ethyl Laurate, Ethyl Levulinate, Ethyl 2-Methylbutyrate, Ethyl Methylphenylglycidate, Ethyl Myristate, Ethyl Nitrite, Ethyl Nonanoate, Ethyl 2-Nonynoate, Ethyl Octanoate, Ethyl Oleate, Ethyl Palmitate, Ethyl Phenylacetate, Ethyl 4-Phenylbutyrate, Ethyl 3-Phenylglycidate, Ethyl 3-Phenylpropionate, Ethyl Propionate, Ethyl Pyruvate, Ethyl Salicylate, Ethyl Sorbate, Ethyl Tiglate, Ethyl 10-Undecenoate, Ethyl Valerate, Ethyl Isovalerate, Ethyl Vanillin, Eucalyptol, Eucalyptus Oil (Eucalyptus Globulus Labille), Eugenol, Isoeugenol, Eugenyl Acetate, Isoeugenyl Acetate, Eugenyl Benzoate, Isoeugenyl Ethyl Ether, Eugenyl Formate, Isoeugenyl Formate, Eugenyl Methyl Ether, Isoeugenyl Methyl Ether, Isoeugenyl

Phenylacetate, Farnesol, D-Fenchone, Fenchyl Alcohol, Fennel, Common(Foeniculum Vulgare Mill.), Fennel, Sweet (Foeniculum Vulgare Mill. Var Dulce (D.C.), Fennel Oil, Sweet (Foeniculum Vulgare Mill. Var. Dulce Dc.), Fenugreek (Trigonella Foenum-Graecum L.), Fenugreek Extract (Trigonella Foenum-Graecum L.), Fenugreek Oleoresin (Trigonella Foenumgraecum L.), Formic Acid, Fumaric Acid, Furfural, Furfuryl Acetate, Furfuryl Alcohol, 2-Furfurylidene Butyraldehyde, Furfuryl Mercaptan, 3-(2-Furyl)Acrolein, 4-(2-Furyl)-3-Buten-2-One, (2-Furyl)-2-Propanone, Fusel Oil, Refined, Galangal Root (Alpinia Spp.), Galangal Root Extract (Alpinia Spp.), Galangal Root Oil (Alpinia Spp.), Galbanum Oil (Ferula Spp.), Galbanum Resin (Ferula Spp.), Garlic Oil (Allium Sativum L.), Genet Absolute (Spartium Junceum L.), Genet Extract (Spartium Junceum L.), Gentian Root Extract (Gentiana Lutea L.), Geraniol, Labdanum Absolute (Cistus Spp.), Labdanum Oil (Cistus Spp.), Labdanum Oleoresin (Cistus Spp.), Lactic Acid, Laurel Berries (Laurus Nobilis L.), Laurel Leaves Extract (Laurus Nobilis L.), Lauric Acid, Lauric Aldehyde, Lauryl Acetate, Lauryl Alcohol, Lavandin Oil (Lavandula Hybrida), Lavender (Lavandula Officinalis Chaix), Lavender Absolute (Lavandula Officinalis Chaix), Lavender Concrete (Lavandula Officinalis Chaix), Lavender Oil (Lavandula Officinalis Chaix), Lemon Extract (Citrus Limon (L.) Burm. F.), Lemongrass Oil, Lemon Oil, Lemon Oil Terpeneless (Citrus Limon (L.) Burm. F.), Levulinic Acid, Licorice Extract (Glycyrrhiza Spp.), Licorice Extract Powder (Glycyrrhiza Glabra L.), Licorice Root (Glycyrrhiza Glabra L.), Lime Oil, Lime Oil, Terpeneless (Citrus Aurantifolia (Christman) Swingle), D-Limonene, Linaloe Wood Oil (Bursera Delpechiana Poiss. And Other Bursera Spp.), Linalool, Linalyl Acetate, Linalyl Anthranilate, Linalyl Benzoate, Linalyl Butyrate, Linalyl Isobutyrate, Linalyl Cinnamate, Linalyl Formate, Linalyl Hexanoate, Linalyl Octanoate, Linalyl Propionate, Linalyl Isovalerate, Linden Flowers (Tilia Glabra Vent.), Locust Gum (Ceratonia Siliqua L.), Lovage (Levisticum Officinale Koch), Lovage Extract (Levisticum Officinale Koch), Lovage Oil (Levisticum Officinale Koch), Mace (Myristica Fragrans Houtt.), Mace Oil (Myristica Fragrans Houtt.), Mace Oleoresin (Myristica Fragrans Houtt.), L-Malic Acid, Maltol, Mandarin Oil, Expressed, Marigold, Pot (Calendula Officinalis L.), Marjoram Oleoresin (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram, Pot (Origanum Vulgare L.), Marjoram Seed (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram, Sweet (Majorana Hortensis Moench-Origanum Majorana L.), Marjoram Oil, Sweet (Origanum Majorana), P-Mentha-1,8-

Dien-7-Ol, Menthol Racemic, (+)-Neoisomenthol, Menthone, Menthyl Acetate (Isomer Unspecified), Menthyl Isovalerate, P-Methoxybenzaldehyde, 2-Methoxy-4-Methylphenol, 4-(P-Methoxyphenyl)-2-Butanone, 1-(P-Methoxyphenyl)-1-Penten-3-One, 1-(P-Methoxyphenyl)-2-Propanone, 2-Methoxy-4-Vinylphenol, Methyl Acetate, 4'-Methylacetophenone, 2-Methylallyl Butyrate, Methyl Anisate, O-Methylanisole, P-Methylanisole, Methyl Anthranilate, Methyl Benzoate, Alpha-Methylbenzyl Acetate, Alpha-Methylbenzyl Alcohol, Alpha-Methylbenzyl Butyrate, Alpha-Methylbenzyl Isobutyrate, Alpha-Methylbenzyl Formate, Alpha-Methylbenzyl Propionate, Methyl P-Tert-Butylphenylacetate, 2-Methylbutyraldehyde, 3-Methylbutyraldehyde, Methyl Butyrate, Methyl Isobutyrate, 2-Methylbutyric Acid, Methyl Cellulose, Alpha-Methylcinnamaldehyde, Methyl Cinnamate, 6-Methylcoumarin, Methylcyclopentenolone, 4-(3,4-Methylenedioxyphenyl)-2-Butanone, 5-Methylfurfural, Methyl 2-Furoate, 2-Methyl-3(2-Furyl)Acrolein, Methyl Heptanoate, 2-Methylheptanoic Acid, 6-Methyl-5-Hepten-2-One, Methyl Hexanoate, Methyl 2-Hexenoate, Methyl P-Hydroxybenzoate, Methyl-Alpha-Ionone, Methyl-Beta-Ionone, Methyl-Delta-Ionone, Alpha-Iso-Methylionone, Methyl Laurate, Methyl Mercaptan, Methyl O-Methoxybenzoate, Methyl N-Methylanthranilate, Methyl 2-Methylbutyrate, Methyl 3-Methylthiopropionate, Methyl 4-Methylvalerate, Methyl Myristate, Methyl Beta-Naphthyl Ketone, Methyl Nonanoate, Methyl 2-Nonenoate, Methyl 2-Nonynoate, 2-Methyloctanal, Methyl Octanoate, Methyl 2-Octynoate, 4-Methyl-2,3-Pentanedione, 4-Methyl-2-Pentanone, Beta-Methylphenethyl Alcohol, Methyl Phenylacetate, 3-Methyl-4-Phenyl-3-Butene-2-One, 2-Methyl-4-Phenyl-2-Butyl Acetate, 2-Methyl-4-Phenyl-2-Butyl Isobutyrate, 2-Methyl-4-Phenylbutyraldehyde, 3-Methyl-2-Phenylbutyraldehyde, Methyl 4-Phenylbutyrate, 4-Methyl-1-Phenyl-2-Pentanone, Methyl 3-Phenylpropionate, Methyl Propionate, 2-Methyl-3-(P-Isopropylphenyl)Propionaldehyde, 6-Methylquinoline, Methyl Salicylate, Methyl Sulfide, 3-(Methylthio)Propionaldehyde, 2-Methyl-3-Tolylpropionaldehyde, 2-Methylundecanal, Methyl 9-Undecenoate, Methyl 2-Undecynoate, Methyl Valerate, Methyl Isovalerate, 2-Methylvaleric Acid, Mimosa Absolute (Acacia Decurrens Willd. Var. Dealbata), Monosodium Glutamate, Mountain Maple Extract Solid (Acer Spicatum Lam.), Musk Tonquin (Moschus Moschiferus L.), Mustard, Brown (Brassica Spp.), Mustard, Yellow (Brassica Spp.), Myrcene, Myristaldehyde, Myristic Acid, Myrrh Gum (Commiphora Spp.), Myrrh Oil (Commiphora Spp.), Beta-Naphthyl Anthranilate, Beta-Naphthyl Ethyl Ether, Naringen Extract (Citrus Paradisi Macf.), Nerol, Neroli

Bigarde Oil (Citrus Aurantium L.), Nerolidol (Isomer Unspecified), Neryl Acetate, Neryl Butyrate, Neryl Isobutyrate, Neryl Formate, Neryl Propionate, Neryl Isovalerate, Nitrous Oxide, 2,6-Nonadien-1-Ol, Gamma-Nonalactone, Nonanal, 1,3-Nonanediol Acetate (Mixed Esters), Nonanoic Acid, 2-Nonanone, Nonanoyl 4-Hydroxy-3-Methoxybenzylamide, Nonyl Acetate, Nonyl Alcohol, Nonyl Octanoate, Nonyl Isovalerate, Nutmeg (Myristica Fragrans Houtt.), Nutmeg Oil, Oak Chips Extract (Quercus Alba L.), Oakmoss Absolute (Evernia Spp.), Gamma-Octalactone, Octanal, Octanal Dimethyl Acetal, Octanoic Acid, 1-Octanol, 2-Octanol, 2-Octanone, 3-Octanone, 3-(Hydroxymethyl)-2-Heptanone, 1-Octen-3-Ol, Octyl Acetate, Octyl Butyrate, Octyl Isobutyrate, Octyl Formate, Octyl Heptanoate, Octyl Octanoate, Octyl Phenylacetate, Octyl Propionate, Octyl Isovalerate, Oleic Acid, Olibanum Oil (Boswellia Spp.), Onion Oil (Allium Cepa L.), Orange Blossoms Absolute, Orange Flowers (Citrus Aurantium L.), Orange Leaf Absolute (Citrus Aurantium L.), Orange Oil Distilled (Citrus Sinensis (L.) Osbeck), Orange Oil Terpeneless (Citrus Sinensis (L.) Osbeck), Orange Peel Oil, Bitter (Citrus Aurantium L.), Orange Peel, Sweet, Extract (Citrus Sinensis L. Osbeck), Orange Peel Oil, Sweet (Citrus Sinensis (L.) Osbeck), Orange Peel, Sweet, Oil, Terpeneless (Citrus Sinensis L. Osbeck), Oregano (Lippia Spp.), Origanum Oil (Extractive) (Thymus Capitatus L. Hoffmanns & Link), Orris Concrete Liquid Oil (Iris Florentina L.), Orris Root Extract (Iris Florentina L.), Palmarosa Oil (Cymbopogon Martini (Roxb.) Stapf), Palmitic Acid, Paprika (Capsicum Annuum L.), Paprika Oleoresin (Capsicum Annuum L.), Parsley (Petroselinum Crispum (Miller) Nyman-P. Sativum Hoffm.), Parsley Oil, Parsley Oleoresin (Petroselinum Spp.), Patchouly Oil, Pennyroyal Oil (Mentha Pulegium L.), Omega-Pentadecalactone, 2,3-Pentanedione, 2-Pentanone, 4-Pentenoic Acid, Pepper, Black (Piper Nigrum L.), Pepper, Black, Oil (Piper Nigrum L.), Pepper, Black, Oleoresin (Piper Nigrum L.), Pepperment Leaves (Mentha Piperita L.), Peppermint Oil, Pepper, Red (Capsicum Frutescens L. (Capsicum Annuum L.)), Pepper, White (Piper Nigrum L.), Pepper, White, Oil (Piper Nigrum L.), Pepper, White, Oleoresin (Piper Nigrum L.), Petitgrain, Lemon, Oil (Citrus Limon L. Burm. F), Petitgrain Mandarin Oil (Citrus Reticulata Blanco Var. Mandarin), Petitgrain Paraguay Oil, Alpha-Phellandrene, Phenethyl Acetate, Phenethyl Alcohol, Phenylethyl Anthranilate, Phenethyl Benzoate, Phenethyl Butyrate, Phenethyl Isobutyrate, Phenethyl Cinnamate, Phenethyl Formate, Phenethyl 2-Furoate, Phenethyl Phenylacetate, Phenethyl Propionate, Phenethyl Salicylate, Phenethyl Senecioate,

Phenethyl Tiglate, Phenethyl Isovalerate, Phenoxyacetic Acid, 2-Phenoxyethyl Isobutyrate, Phenylacetaldehyde, Phenylacetaldehyde 2,3-Butylene Glycol Acetal, Phenylacetaldehyde Dimethyl Acetal, Phenylacetaldehyde Glyceryl Acetal, Phenylacetic Acid, 4-Phenyl-2-Butanol, 4-Phenyl-3-Buten-2-Ol, 4-Phenyl-3-Buten-2-One, 4-Phenyl-2-Butyl Acetate, 1-Phenyl-3-Methyl-3-Pentanol, 1-Phenyl-1-Propanol, 3-Phenyl-1-Propanol, 2-Phenylpropionaldehyde, 3-Phenylpropionaldehyde, 2-Phenylpropionaldehyde Dimethyl Acetal, 3-Phenylpropionic Acid, 3-Phenylpropyl Acetate, 2-Phenylpropyl Butyrate, 2-Phenylpropyl Isobutyrate, 3-Phenylpropyl Isobutyrate, 3-Phenylpropyl Cinnamate, 3-Phenylpropyl Formate, 3-Phenylpropyl Hexanoate, 3-Phenylpropyl Propionate, 2-(3-Phenylpropyl)Tetrahydrofuran, 3-Phenylpropyl Isovalerate, Phosphoric Acid, Pimenta Leaf Oil, Alpha-Pinene, Beta-Pinene, Pine Needle, Dwarf, Oil (Pinus Mugo Turra Var. Pumilio (Haenke) Zenari), Pine Needle Oil (Abies Spp.), Pine Scotch Oil (Pinus Sylvestris L.), Pine Tar Oil (Pinus Palustris Mill. And Other Pinus Spp.), Piperidine, Piperine, D-Piperitone, Piperonal, Piperonyl Acetate, Piperonyl Isobutyrate, Pipsissewa Leaves Extract (Chimaphila Umbellata Nutt.), Polysorbate 20, Polysorbate 60, Polysorbate 80, Pomegranate Bark Extract (Punica Granatum L.), Poppy Seed (Papaver Somniferum L.), Potassium Acetate, Potassium Sorbate, Propenylguaethol, Propionaldehyde, Propionic Acid, Propyl Acetate, Isopropyl Acetate, P-Isopropylacetophenone, Propyl Alcohol, Isopropyl Alcohol, P-Propylanisole, Propyl Benzoate, Isopropyl Benzoate, P-Isopropylbenzyl Alcohol, Propyl Butyrate, Isopropyl Butyrate, Propyl Isobutyrate, Isopropyl Isobutyrate, Propyl Cinnamate, Isopropyl Cinnamate, Propylene Glycol, Propylene Glycol Alginate, Propylene Glycol Stearate, Propyl Formate, Isopropyl Formate, Propyl 2-Furanacrylate, Propyl 2-Furoate, Propyl Gallate, Propyl Heptanoate, Propyl Hexanoate, Isopropyl Hexanoate, Propyl P-Hydroxybenzoate, 3-Propylidenephthalide, Alpha-Propylphenethyl Alcohol, P-Isopropyl Phenylacetaldehyde, Propyl Phenylacetate, Isopropyl Phenylacetate, 3-(P-Isopropylphenyl)Propionaldehyde, Propyl Propionate, Isopropyl Propionate, Propyl Isovalerate, Isopropyl Isovalerate, Isopulegol, Pulegone, Isopulegone, Isopulegyl Acetate, Pyridine, Pyroligneous Acid, Pyroligneous Acid, Extract, Pyruvaldehyde, Pyruvic Acid, Quassia Extract (Picrasma Excelsa (Sw.) Planch.-Quassia Amara L.), Quebracho Bark Extract, Quillaia (Quillaja Saponaria Molina), Quince Seed Extract (Cydonia Spp.), Quinine Bisulfate, Quinine Hydrochloride, Quinine Sulfate, Isoquinoline, Rhatany Extract (Krameria Spp.), Rhodinol,

Rhodinyl Acetate, Rhodinyl Butyrate, Rhodinyl Isobutyrate, Rhodinyl Formate, Rhodinyl Phenylacetate, Rhodinyl Propionate, Rhodinyl Isovalerate, Rose Absolute (Rosa Spp.), Rose Oil (Rosa Damascena Mill.), Rose Hips Extract (Rosa Spp.), Rosemary (Rosemarinus Officinalis L.), Rosemary Oil (Rosemarinus Officinalis L.), Rose Water, Stronger (Rosa Centifolia L.), Rue (Ruta Graveolens L.), Rue Oil (Ruta Graveolens L.), Rum Ether, Saccharine, Sodium Salt, Saffron (Crocus Sativus L.), Saffron Extract (Crocus Sativus L.), Sage (Salvia Officinalis L.), Sage Oil (Salvia Officinalis L.), Sage Oleoresin (Salvia Officinalis L.), Sage Oil, Spanish (Salvia Lavandulaefolia Vahl.), Salicylaldehyde, Sandalwood Yellow Oil (Santalum Album L.), Santalol (Alpha And Beta), Santalyl Acetate, Santalyl Phenylacetate, Sarsaparilla Extract (Smilax Spp.), Sassafras Bark Extract (Safrol-Free) (Sassafras Albidum (Nutt.) Nees), Sassafras Leaves (Safrol-Free) (Sassafras Albidum (Nutt.) Nees), Savory, Summer (Satureja Hortensis L.), Savory Summer Oil (Satureja Hortensis L.), Savory, Summer, Oleoresin (Satureja Hortensis L.), Savory, Winter (Satureja Montana L.), Savory Winter Oil (Satureja Montana L.), Savory, Winter, Oleoresin (Satureja Montana L.), Schinus Molle Oil (Schinus Molle L.), Skatole, Sloe Berries (Prunus Spinosa L.), Sloe Berries Extract (Prunus Spinosa L.), Sloe Berries Extract Solid (Prunus Spinosa L.), Snakeroot Oil, Canadian (Asarum Canadense L.), Sodium Acetate, Sodium Benzoate, Sodium Citrate, Sodium Hexametaphosphate, Sorbitan Monostearate, D-Sorbitol, Spearmint (Mentha Spicata L.), Spearmint Extract (Mentha Spicata L.), Spearmint Oil (Mentha Spicata L.), Spike Lavender Oil (Lavandula Spp.), Spruce Oil (Tsuga And Picea Spp.), Stearic Acid, Storax (Liquidambar Spp.), Styrax Extract(Liquidambar Spp.), Sucrose Octaacetate, Sulfur Dioxide, Tagetes Oil (Tagetes Erecta L.; T. Patula L.; Or T. Glandulifera Schrank), Tangerine Oil (Citrus Reticulata Blanco), Tannic Acid (Quercus Spp.), Tarragon (Artemisia Dracunculus L.), Tartaric Acid (D-, L-, Dl-, Meso-), Alpha-Terpineol, Terpinolene, Terpinyl Acetate (Isomer Mixture), Beta-Terpinyl Anthranilate, Terpinyl Butyrate, Terpinyl Isobutyrate, Terpinyl Cinnamate, Terpinyl Formate, Terpinyl Propionate, Terpinyl Isovalerate, Tetrahydrofurfuryl Acetate, Tetrahydrofurfuryl Alcohol, Tetrahydrofurfuryl Butyrate, Tetrahydrofurfuryl Propionate, 3,4,5,6-Tetrahydropseudoionone, Tetrahydrolinalool, Tetramethyl Ethylcyclohexenone (Mixture Of Isomers), 2-Thienyl Mercaptan, Thyme (Thymus Vulgaris L.), Thyme Oil(Thymus Vulgaris L.), Thyme, White, Oil (Thymus Vulgaris L.), Thymol, Tolualdehyde Glyceryl Acetal (Mixed O-, M-, P-), Tolualdehydes (Mixed O,M,P), Tolu,

Balsam, Extract (Myroxylon Spp.), Tolu, Balsam, Gum (Myroxylon Spp.), P-Tolylacetaldehyde, O-Tolyl Acetate, P-Tolyl Acetate, 4-(P-Tolyl)-2-Butanone, P-Tolyl Isobutyrate, P-Tolyl Laurate, P-Tolyl Phenylacetate, P-Tolyl Phenylacetate, 2-(P-Tolyl)Propionaldehyde, Tragacanth Gum (Astragalus Spp.), Tributyl Acetylcitrate, Tricalcium Phosphate, 2-Tridecenal, Triethyl Citrate, Tuberose Oil (Polianthes Tuberosa L.), Turmeric (Curcuma Longa L.), Turmeric Extract (Curcuma Longa L.), Turmeric Oleoresin (Curcuma Longa L.), Turpentine Gum (Pinus Spp.), Turpentine, Steam Distilled (Pinus Spp.), 2,3-Undecadione, Gamma-Undecalactone, Undecanal, 2-Undecanone, 9-Undecenal, 10-Undecenal, 10-Undecen-1-Yl Acetate, Undecyl Alcohol, Valeraldehyde, Valerian Root Extract (Valeriana Officinalis L.), Valerian Root Oil (Valeriana Officinalis L.), Valeric Acid, Isovaleric Acid, Gamma-Valerolactone, Vanilla (Vanilla Spp.), Vanilla Extract (Vanilla Spp.), Vanilla Oleoresin (Vanilla Spp.), Vanillin, Vanillin Acetate, Veratraldehyde, Violet Leaves Absolute (Viola Odorata L.), Walnut Hull Extract (Juglans Spp.), Wintergreen Extract (Gaultheria Procumbens L.), Wintergreen Oil (Gaultheria Procumbens L.), Wormwood (Artemisia Absinthium L.), Wormwood Extract (Artemisia Absinthium L.), Wormwood Oil (Artemisia Absinthium L.), Yarrow Herb (Achillea Millefolium L.), Yerba Santa Fluid Extract (Eriodictyon Californicum (Hook And Am) Torr, Ylang Ylang Oil (Cananga Odorata Hook. F. And Thomas), Yucca Joshua Tree (Yucca Brevifolia Engelm.), Yucca Mohave Extract (Yucca Spp.), Zedoary (Curcuma Zedoaria (Berg.) Rosc.), Zedoary Bark Extract (Curcuma Zedoaria (Berg.) Rosc.), Zingerone, Acetaldehyde Butyl Phenethyl Acetal, Acetylpyrazine, Allyl Methyl Disulfide, 2-Benzofurancarboxaldehyde, Biphenyl, Butylamine, Sec-Butyl Ethyl Ether, 2-Isobutyl-3-Methoxypyrazine, 2-Isobutyl-3-Methylpyrazine, 2-Isobutylthiazole, 2-Trans,4-Trans-Decadienal, 2,3-Diethylpyrazine, 2,6-Dimethoxyphenol, 3,4-Dimethoxy-1-Vinylbenzene, P-Alpha-Dimethylbenzyl Alcohol, 2,6-Dimethyl-4-Heptanol, 2,6-Dimethyl-10-Methylene-2,6,11-Dodecatrienal, 3,7-Dimethyl-6-Octenoic Acid, 2,4-Dimethyl-2-Pentenoic Acid, P,Alpha-Dimethylstyrene, 2,4-Dimethyl-5-Vinylthiazole, 2,2'-(Dithiodimethylene)-Difuran, 1-Ethyl-2-Acetylpyrrole, Ethyl Trans-2,Cis-4-Decadienoate, 2-Ethyl-3,(5 Or 6)-Dimethylpyrazine, 3-Ethyl-2,6-Dimethylpyrazine, 2-Ethyl-1-Hexanol, 3-Ethyl-2-Hydroxy-2-Cyclopenten-1-One, 5-Ethyl-3-Hydroxy-4-Methyl-2(5h)-Furanone, 2-Ethyl-5-Methylpyrazine, 2-Ethyl-3-Methylpyrazine, P-Ethylphenol, Ethyl (P-Tolyloxy)Acetate, 2-Furanmethanethiol Formate, Furfuryl Methyl Ether, Furfuryl Methyl Sulfide, Furfuryl Isopropyl

Sulfide, Furfuryl Thioacetate, 2-Furyl Methyl Ketone, (2e,4e)-Heptadienal, Trans-2-Heptenal, Nootkatone, Delta-Hexalactone, 3,4-Hexanedione, Trans-2-Hexenoic Acid, 3-Hexenoic Acid, Cis-3-Hexen-1-Yl Acetate, Hexyl Isobutyrate, 1-Hydroxy-2-Butanone, 4-Hydroxy-2,5-Dimethyl-3(2h)-Furanone, Gamma-Ionone, P-Menthan-2-One, P-Mentha-8-Thiol-3-One, P-Menth-1-Ene-9-Al, P-Menth-1-En-3-Ol, 2-Mercaptopropionic Acid, O-Methoxycinnamaldehyde, P-Methoxy-Alpha-Methylcinnamaldehyde, 2,5 Or 6-Methoxy-3-Methylpyrazine (Mixture Of Isomers), 1-Methyl-2-Acetylpyrrole, Methylated Silica, 4-Methylbiphenyl, 3-Methylcrotonic Acid, 2-Methyl-3-Furanthiol, 2-Methyl-3-,5 Or 6-(Furfurylthio)Pyrazine (Mixture Of Isomers), 5-Methyl-2,3-Hexanedione, 2-Methylhexanoic Acid, 2-Methyl-5-Methoxythiazole, 1-Methylnaphthalene, 2-Methyl-2-Pentenal, 2-Methyl-2-Pentenoic Acid, 3-Methyl-2-(2-Pentenyl)-2-Cyclopenten-1-One, Alpha-Methylphenethyl Butyrate, Methyl Phenethyl Ether, 5-Methyl-2-Phenyl-2-Hexenal, 4-Methyl-2-Phenyl-2-Pentenal, Methyl Propyl Disulfide, Methyl 2-Pyrrolyl Ketone, 5-Methylquinoxaline, 4-Methyl-5-Thiazoleethanol, 4-Methyl-5-Thiazoleethanol Acetate, 2-Methylthioacetaldehyde, 1-(Methylthio)-2-Butanone, (Methylthio)Methylpyrazine (Mixture Of Isomers), 5-Methyl-2-Thiophenecarboxaldehyde, O-(Methylthio)-Phenol, 2-Methyl-5-Vinylpyrazine (Re-Gras), 2,4-Nonadienal, 2-Nonenal, Delta-Octalactone, 2-Octenal, Paraffin Wax, 2,4-Pentadienal, 2-Pentenal, Isopentylamine, Phenethylamine, Phenethyl Hexanoate, Phenethyl Octanoate, Phenol, 2-Phenyl-2-Butenal, Phenyl Disulfide, 1-Phenyl-1,2-Propanedione, Propenyl Propyl Disulfide, Propyl Disulfide, Isopropyl Tiglate, Pyrazine Ethanethiol, Pyrazinyl Methyl Sulfide, 2-Pyridinemethanethiol, 4,5,6,7-Tetrahydro-3,6-Dimethylbenzofuran, Tetrahydro-4-Methyl-2-(2-Methylpropen-1-Yl)Pyran, 2,3,5,6-Tetramethylpyrazine, 2,2'-(Thiodimethylene)-Difuran, 4-Thujanol, O-Toluenethiol, Trimethylamine, P-Alpha,Alpha-Trimethylbenzyl Alcohol, 1-(2,6,6-Trimethyl-1-Cyclohexen-1-Yl)-2-Buten-1-One, 2,3,5-Trimethylpyrazine, Undecanoic Acid, 2-Undecanol, 10-Undecenoic Acid, 2,6-Xylenol, 2-Acetyl-3-Ethylpyrazine, 2-Acetylpyridine, Beta-Alanine, Allyl Methyl Trisulfide, Arabinogalactan, L-Arabinose, Benzothiazole, Bis(2-Methyl-3-Furyl) Disulfide, Bis(2-Methyl-3-Furyl) Tetrasulfide, 2-Sec-Butylcyclohexanone, Cyclopentanethiol, L-Cysteine, 4-Decenal, Diallyl Trisulfide, 4,5-Dihydro-3(2h)Thiophenone, 2,4-Dimethyl-5-Acetylthiazole, 3,4-Dimethyl-1,2-Cyclopentadione, 3,5-Dimethyl-1,2-Cyclopentadione, Spiro(2,4-Dithia-1-Methyl-8-Oxabicyclo(3.3.0)Octane-3,3'-(1'-Oxa-2'-

Methyl)-Cyclopentane), 2,3-Dimethylpyrazine, 2,5-Dimethylpyrazine, 2,6-Dimethylpyrazine, 4,5-Dimethylthiazole, Dimethyl Trisulfide, Dipropyl Trisulfide, Disodium Succinate, Ethyl 2,4-Dioxohexanoate, Ethyl 2-Mercaptopropionate, 2-Ethyl(Or Methyl)-(3,5 And 6)-Methoxypyrazine, 2-Ethylpyrazine, Ethyl Thioacetate, Furfuryl 3-Methylbutanoate, N-Furfurylpyrrole, L-Glutamic Acid, Glyceryl Tripropanoate, Glycine, 2-Heptanol, 4-Heptenal, 3-Hexanone, 4-Hydroxybutanoic Acid Lactone, 3-(Hydroxymethyl)-2-Octanone, 4-Hydroxy-3-Pentenoic Acid Lactone, 5-Hydroxyundecanoic Acid Lactone, D,L-Isoleucine, Isopropenylpyrazine, L-Leucine, 3-Mercapto-2-Butanone, 2-Mercaptomethylpyrazine, 3-Mercapto-2-Pentanone, D,L-Methionine, Methoxypyrazine, 2-Methyl-1-Butanethiol, 3-Methyl-2-Butanethiol, 1-Methyl-2,3-Cyclohexadione, 5h-5-Methyl-6,7-Dihydrocyclopenta(B)Pyrazine, 3-(5-Methyl-2-Furyl)-Butanal, Methyl Propyl Trisulfide, 2-Methylpyrazine, Methyl Thiobutyrate, Methyl 2-Thiofuroate, 3-Methylthiopropyl Isothiocyanate, 4-Methyl-5-Vinylthiazole, 2-Naphthalenthiol, 2-Nonanol, 2-Pentanol, 2-Pentylfuran, 3-Phenyl-4-Pentenal, L-Proline, Tetrahydrofurfuryl Cinnamate, 5,6,7,8-Tetrahydroquinoxaline, Thiamine Hydrochloride, 2-Thienyl Disulfide, 3,5,5-Trimethyl-1-Hexanol, 2,4,5-Trimethylthiazole, Acetone, 2-Acetyl-3,5(And 6)-Dimethylpyrazine, 2-Acetylthiazole, Allyl Thiopropionate, Benzyl Trans-2-Methyl-2-Butenoate, Bisabolene, Butan-3-One-2-Yl Butanoate, 3-Butylidenephthalide, 3-N-Butylphthalide, Di(Butan-3-One-1-Yl) Sulfide, 2,3-Diethyl-5-Methylpyrazine, Difurfuryl Ether, 5,7-Dihydro-2-Methylthieno(3,4-D)Pyrimidine, 3,7-Dimethylocta-2,6-Dienyl 2-Ethylbutanoate, 2-Ethoxythiazole, Ethyl 2-Ethyl-3-Phenylpropanoate, Ethyl 3-Hexenoate, Ethyl 3-Methylthiopropionate, Ethyl Cis-4-Octenoate, 2-Ethylthiophenol, Furfuryl Propionate, Furfuryl Thiopropionate, Heptanoic Acid, 4-Heptenal Diethyl Acetal, 3-Heptyldihydro-5-Methyl-2(3h)-Furanone, 3-Hexanol, 4-Hexene-3-One, Cis-3-Hexenyl Formate, N-Hexyl 2-Butenoate, 6-Hydroxy-3,7-Dimethyloctanoic Acid Lactone, Hydroxynonanoic Acid, Delta-Lactone, 2-Keto-4-Butanethiol, 2-Methoxy-3(5 And 6)-Isopropylpyrazine, 2-Methylbutyl 2-Methylbutyrate, 3-Methyl-2-Cyclohexen-1-One, Methyl 3,7-Dimethyl-6-Octenoate, Methyl Furfuryl Disulfide, 6-Methyl-3,5-Heptadien-2-One, Methyl 3-Hexenoate, 5-Methyl-5-Hexen-2-One, 2-Methyl-5-(Methylthio)Furan, Methyl Cis-4-Octenoate, 4-Methyl-3-Penten-2-One, 2-Methylpropyl 3-Methylbutyrate, 2-(2-Methylpropyl)Pyridine, 3-(2-Methylpropyl)Pyridine, 2-(1-Methylpropyl)Thiazole, 2-Methyltetrahydrofuran-3-One, 3-(Methylthio)Butanal, 4-(Methylthio)-

2-Butanone, 4-(Methylthio)-4-Methyl-2-Pentanone, Nona-2-Trans-6-Cis-Dienal, 2,6-Nonadienal Diethyl Acetal, Trans-2-Nonen-1-Ol, 9,12-Octadecadienoic Acid (48%) And 9,12,15-Octadecatrienoic Acid (52%), 3-Oxobutanal Dimethyl Acetal, 1-Penten-3-One, 2-Pentylpyridine, Phenylacetaldehyde Diisobutyl Acetal, Propyl Thioacetate, Pyrrole, P-Tolyl 3-Methylbutyrate, 2-Tridecanone, 2,6,6-Trimethylcyclohexa-1,3-Dienyl Methanal, 1,3,3-Trimethyl-2-Norbornanyl Acetate, 3-Acetyl-2,5-Dimethylfuran, 2-Butyl-2-Butenal, N-Butyl 2-Methylbutyrate, 3-Ethylpyridine, 2-Formyl-6,6-Dimethylbicyclo(3.1.1)Hept-2-Ene, Alpha-Furfuryl Octanoate, Alpha-Furfuryl Pentanoate, Glyceryl Tribenzoate, 2-Hepten-4-One, 3-Hepten-2-One, 2-Heptylfuran, Cis-3-Hexenyl Butyrate, Cis-3-Hexenyl Hexanoate, Capsaicin, 2-Hydroxymethyl-6,6-Dimethylbicyclo(3.1.1)Hept-2-Enyl Formate, 2-Isopropyl-5-Methyl-2-Hexenal, 2-Methyl-2-Butenal, Methyl Dihydrojasmonate, 5-Methyl-3-Hexen-2-One, Methyl Jasmonate, Methyl Linoleate (48%) Methyl Linolenate (52%) Mixture, Methyl 4-(Methylthio)Butyrate, 2-Methylpentanal, 4-(Methylthio)Butanal, 3-(Methylthio)Propanol, 3-Octen-2-One, 3-Penten-2-One, Pentyl 2-Furyl Ketone, Propylene Glycol Dibenzoate, 1-(2,6,6-Trimethylcyclohexa-1,3-Dienyl)-2-Buten-1-One, 2,6,6-Trimethylcyclohex-2-Ene-1,4-Dione, 2,4-Undecadienal, 2-Undecenal, 3-Acetylpyridine, Cycloheptadeca-9-En-1-One, 1,1-Dimethoxyethane, 2,4-Dimethylbenzaldehyde, Ethyl 3-Hydroxybutyrate, Trans,Trans-2,4-Hexadienal, 4-Hexen-1-Ol, Isobutyl 2-Butenoate, 2-Methoxy-3-(1-Methylpropyl)Pyrazine, 3-Methyl-1-Cyclopentadecanone, 1-Methyl-1-Cyclopenten-3-One, 1-Methyl-3-Methoxy-4-Isopropylbenzene, 3-Methylpentanoic Acid, 3-(Methylthio)-1-Hexanol, Myrtenol, 3-Nonanone, 2,2,4-Trimethyl-1,3-Oxacyclopentane, 2,6,10-Trimethyl-2,6,10-Pentadecatrien-14-One, Valencene, D,L-Valine, Dl-(3-Amino-3-Carboxypropyl)Dimethylsulfonium Chloride, Dehydrodihydroionol, Dehydrodihydroionone, Dicyclohexyl Disulfide, 1,4-Dimethyl-4-Acetyl-1-Cyclohexene, 2,5-Dimethyl-2,5-Dihydroxy-1,4-Dithiane, 2,5-Dimethyl-3-Furanthiol, Dodecyl Isobutyrate, 3-Ethyl-2-Hydroxy-4-Methylcyclopent-2-En-1-One, 5-Ethyl-2-Hydroxy-3-Methylcyclopent-2-En-1-One, N-Ethyl-2-Isopropyl-5-Methylcyclohexane Carboxamide, Ethyl 2-Methyl-3-Pentenoate, Hexyl Phenylacetate, 2-Hydroxy-2-Cyclohexen-1-One, 2-Hydroxy-3,5,5-Trimethyl-2-Cyclohexenone, D,L-Isomenthone, 2-Isopropylphenol, Maltyl Isobutyrate, 4-Methylpentanoic Acid, 2-Methyl-3-Pentenoic Acid, Cis-6-Nonen-1-Ol, 2-Trans-6-Trans-Octadienal, Cis-3-Octen-1-Ol, 2-Phenyl-3-Carbethoxy Furan, Propiophenone, 1,5,5,9-Tetramethyl-13-Oxatricyclo(8.3.0.0(4,9))Tridecane,

Thiogeraniol, 2,2,6-Trimethylcyclohexanone, 2,6,6-Trimethyl-1-Cyclohexen-1-Acetaldehyde, Trithioacetone, Bis(2,5-Dimethyl-3-Furyl) Disulfide, 2,3-Butanedithiol, 1-Butanethiol, Candelilla Wax (Wax From Stems And Branches Of Euphorbia Cerifera), O-Cresol, S-(2,5-Dimethyl-3-Furyl)Thio-2-Furoate, 2,5-Dimethyl-3-Thioisovalerylfuran, 2,8-Dithianon-4-En-4-Carboxaldehyde, 1,2-Ethanedithiol, O-(Ethoxymethyl)Phenol, Ethyl Trans-2-Butenoate, Ethyl Maltol, Ethyl 2-Methylpentanoate, Ethyl 2-Methyl-4-Pentenoate, Ethyl Octadecanoate, 2-Ethyl-1,3,3-Trimethyl-2-Norbornanol, Ethyl Undecanoate, Trans-3-Heptenyl Acetate, Trans-3-Heptenyl 2-Methylpropanoate, 1,6-Hexanedithiol, Cis-4-Hexenal, 3-Hexenyl 2-Methylbutanoate, 3-Hexenyl 3-Methylbutanoate, Hexyl 2-Methylbutanoate, Hexyl Isovalerate, Linalyl Phenylacetate, 2-Mercapto-3-Butanol, 2,3 Or 10-Mercaptopinane, Methyl Benzyl Disulfide, 3-Methylbutyl 2-Methylbutanoate, 2-Methylbutyl 3-Methylbutanoate, 3-Methylbutyl 2-Methylpropanoate, Methyl 3-Hydroxyhexanoate, Alpha-Methyl-Beta-Hydroxypropyl Alpha-Methyl-Beta-Mercaptopropyl Sulfide, 4-Methyl-2-Pentenal, 2-Methyl-4-Pentenoic Acid, 2-Methyltetrahydrothiophen-3-One, 1,9-Nonanedithiol, 1,8-Octanedithiol, 1-Octen-3-One, Trans-2-Octen-1-Yl Acetate, Trans-2-Octen-1-Yl Butanoate, Octyl 2-Furoate, 2-Phenyl-4-Pentenal, 1,2-Propanedithiol, Propanethiol, O-Propylphenol, Pyrrolidine, 3,5,5-Trimethylhexanal, 2,4,5-Trimethyl-Delta-3-Oxazoline, 2-Acetoxy-3-Butanone, 1,2-Butanedithiol, 1,3-Butanedithiol, M-Cresol, Cyclohexanecarboxylic Acid, 3-Decen-2-One, Diallyl Polysulfides, 1,2-Di((1'-Ethoxy)Ethoxy)Propane, 2,3-Dimethylbenzofuran, Dimethyl Disulfide, 2,6-Dimethyl-4-Heptanone, 2,6-Dimethyl-3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, 3,7-Dimethyl-1,3,6-Octatriene, 2,6-Dimethylpyridine, 3,5-Dimethyl-1,2,4-Trithiolane, 6,10-Dimethyl-5,9-Undecadien-2-One, Ethylene Brassylate, Ethyl Cyclohexanecarboxylate, Ethyl 3-Hydroxyhexanoate, 5-Ethyl-2-Methylpyridine, 3-Heptanol, 2-Hydroxyacetophenone, 6-Hydroxydihydrotheaspirane, 3-Hydroxy-2-Pentanone, Isoamyl Acetoacetate, Isojasmone, Isophorone, 5-Isopropyl-2-Methylpyrazine, 2-Isopropyl-4-Methylthiazole, Isopropyl Myristate, P-Mentha-1,8-Dien-7-Al, P-Mentha-1,3-Diene, P-Mentha-1,4-Diene, P-Mentha-1,4(8)-Dien-3-One, P-Mentha-1,8-Dien-7-Yl Acetate, P-Menthan-2-Ol, P-Menth-3-En-1-Ol, P-Menth-8-En-1-Ol, P-Menth-8-En-2-One, 1-P-Menthen-9-Yl Acetate, P-Methoxycinnamaldehyde, Methyl Cyclohexanecarboxylate, 2-Methyl-3,5 Or 6-Ethoxypyrazine, 3-((2-Methyl-3-Furyl)Thio)-4-Heptanone, 4-((2-Methyl-3-Furyl)Thio)-5-Nonanone, 5-Methylhexanoic Acid, Methyl 2-Methyl-

3-Furyl Disulfide, 4-Methylnonanoic Acid, 4-Methyloctanoic Acid, Methyl 1-Propenyl Disulfide, 3-Methyl-5-Propyl-2-Cyclohexen-1-One, 2-Methyl-4-Propyl-1,3-Oxathiane, 1,4-Nonanediol Diacetate, Cis-6-Nonenal, 3-Octanol, 1-Octen-3-Yl Acetate, 3-Octyl Acetate, 1-Penten-3-Ol, L-Phenylalanine, 2-Phenyl-3-(2-Furyl)Prop-2-Enal, 2(10)-Pinen-3-Ol, 1,3-Propanedithiol, Resorcinol, Delta-Tetradecalactone, Theobromine, (2,2,3-Trimethylcyclopent-3-En-1-Yl)Acetaldehyde, 1,2,3-Tris((1'-Ethoxy)Ethoxy)Propane, Verbenol, 2,5-Xylenol, 3,4-Xylenol, Benzyl Methyl Sulfide, 2-Methoxy-4-Propylphenol, 2-Methyl-Trans-2-Butenoic Acid, 4-(Methylthio)Butanol, 2-(Methylthio)Methyl-2-Butenal, 3-Octen-2-Ol, 2-Octen-4-One, Octyl 2-Methylbutyrate, 3-Decanol, D-Xylose, Propyl 2-Methyl-3-Furyl Disulfide, 1-Hexen-3-Ol, 2-Acetyl-5-Methylfuran, Epsilon-Dodecalactone, 2-Propionylthiazole, 1-Octen-3-Yl Butyrate, Epsilon-Decalactone, 2-Propionylpyrrole, Thiazole, Benzenethiol, Benzyl Disulfide, 5-Phenylpentanol, 2-(2-Butyl)-4,5-Dimethyl-3-Thiazoline, 4,5-Dimethyl-2-Ethyl-3-Thiazoline, 4,5-Dimethyl-2-Isobutyl-3-Thiazoline, Delta-1-(2,6,6-Trimethyl-3-Cyclohexen-1-Yl)-2-Buten-1-One, 2-Ethyl-4-Hydroxy-5-Methyl-3(2h)-Furanone, Alpha-Ionol, Beta-Ionol, Dihydro-Beta-Ionone, Dihydro-Beta-Ionol, Dihydro-Alpha-Ionone, 2-Methyl-4-Phenyl-2-Butanol, 4-Methyl-2-Pentyl-1,3-Dioxolan, Cyclohexylmethyl Pyrazine, Phenylethyl 2-Methylbutyrate, 3-Hexenyl Phenylacetate, 4,5-Dimethyl-3-Hydroxy-2,5-Dihydrofuran-2-One, 4-Hydroxy-5-Methyl-3(2h)-Furanone, 2-Methyl-3-Thioacetoxy-4,5-Dihydrofuran, 2-Trans-6-Cis-Dodecadienal, 2-Trans-4-Cis-7-Cis-Tridecatrienal, 2,6,6-Trimethyl-1&2-Cyclohexen-1-Carboxaldehyde, P-Methylcinnamaldehyde, Ethyl Trans-2-Decenoate, Ethyl Trans-4-Decenoate, Ethyl Trans-2-Octenoate, 2-Methylbutyl Acetate, Cis-5-Isopropenyl-Cis-2-Methylcyclopentan-1-Carboxaldehyde, 3-Methyl-2-Butenal, 3-Methyl-2-Buten-1-Ol, Propyl 2,4-Decadienoate, P-Propylphenol, Butyl Salicylate, 6-Acetoxydihydrotheaspirane, 4-(P-Acetoxyphenyl)-2-Butanone, 4-Acetyl-6-T-Butyl-1,1-Dimethylindan, 4-Acetyl-2-Methylpyrimidine, 4-Allyl-2,6-Dimethoxyphenol, L-Aspartic Acid, Campholene Acetate, 1,4-Cineole, Alpha-1-(2,6,6-Trimethyl-2-Cyclohexen-1-Yl)-2-Buten-1-One, 9-Decenoic Acid, Nerol Oxide, Dihydroxyacetophenone, 2,6-Dimethyl-6-Hepten-1-Ol, 2,5-Dimethyl-4-Methoxy-3(2h)-Furanone, 2,2-Dimethyl-5-(1-Methylpropen-1-Yl)Tetrahydrofuran, 2,6-Dimethylthiophenol, Diphenyl Ether, Disodium 5-Guanylate, Disodium 5-Inosinate, Trans,Trans-2,4-Dodecadienal, 4-Ethyl-2,6-Dimethoxyphenol, 2-Ethyl-4,5-Dimethyloxazole, 2-Ethylfuran, Ethyl 3-

(Furfurylthio)Propionate, Ethyl Trans-2-Hexenoate, 1-Ethylhexyl Tiglate, Ethyl 3-Mercaptopropionate, Ethyl 2-Methyl-3,4-Pentadienoate, Ethyl 3-Methylpentanoate, 2-Ethyl-4-Methylthiazole, Ethyl 4-(Methylthio)Butyrate, Ethyl Cis-4,7-Octadienoate, Ethyl 3-Oxohexanoate, L-Glutamine, Glyceryl 5-Hydroxydecanoate, Glyceryl 5-Hydroxydodecanoate, Guaiacyl Acetate, Cis-3-Hexenyl Benzoate, Cis-3-Hexenyl Cis-3-Hexenoate, Cis-3-Hexenyl Lactate, Hexyl Benzoate, Hexyl Trans-2-Hexenoate, Hexyl 2-Methyl-3&4-Pentenoate, L-Histidine, Hydroquinone Monoethyl Ether, 5-Hydroxy-2,4-Decadienoic Acid Delta-Lactone, 2-Hydroxy-4-Methylbenzaldehyde, Isoeugenyl Benzyl Ether, Isopropyl 2-Methylbutyrate, 1-P-Menthene-8-Thiol, Methyl 1-Acetoxycyclohexyl Ketone, Methylbenzyl Acetate (Mixed O,M,P), 3-Methyl-2-Butanol, 4-Methyl-2,6-Dimethoxyphenol, 2-Methyl-1,3-Dithiolane, Methyl 2-Hydroxy-4-Methylpentanoate, Methyl 2-Methylpentanoate, Methyl 2-Methylthiobutyrate, Methyl Nicotinate, Methyl 3-Nonenoate, 2-Methyl-2-Octenal, Methyl Trans-2-Octenoate, Methyl 2-Oxo-3-Methylpentanoate, Methyl Sorbate, 7-Methyl-4,4a,5,6-Tetrahydro-2(3h)-Naphthalenone, 4-Methylthiazole, 2-(Methylthiomethyl)-3-Phenylpropenal, 3-Methyl-1,2,4-Trithiane, Beta-Naphthyl Isobutyl Ether, Cis-2-Nonen-1-Ol, Trans,Trans-2,4-Octadienal, Cis-5-Octen-1-Ol, 2-Oxobutyric Acid, 2-Pentadecanone, 2-Pentyl-1-Buten-3-One, D,L-Phenylalanine, 1-Phenyl-3 Or 5-Propylpyrazole, 4-Propenyl-2,6-Dimethoxyphenol, 4-Propyl-2,6-Dimethoxyphenol, L-Rhamnose, 1,2,5,6-Tetrahydrocuminic Acid, Thaumatin, P-Tolyl Octanoate, O-Tolyl Salicylate, 2,2,6-Trimethyl-6-Vinyltetrahydropyran, L-Tyrosine, Vanillyl Alcohol, Vanillylidene Acetone, P-Vinylphenol, Anisyl Phenylacetate, Alpha-Campholenic Alcohol, 5- And 6-Decenoic Acid, 2,5-Diethyltetrahydrofuran, 5-Hydroxy-2-Decenoic Acid Delta-Lactone, 5-Hydroxy-7-Decenoic Acid Delta-Lactone, Linalool Oxide, Massoia Bark Oil (Cryptocarya Massoio), L-Menthyl Lactate, Cis-5-Octenal, Osmanthus Absolute (Osmanthus Fragrans Lour.), 2-(3-Phenylpropyl)Pyridine, Potassium 2-(1'-Ethoxy)Ethoxypropanoate, O-Tolyl Isobutyrate, Vanillin Isobutyrate, Dehydromenthofurolactone, 4-Ethylbenzaldehyde, Ethyl Methyl-P-Tolylglycidate, 5-Hydroxy-8-Undecenoic Acid Delta-Lactone, 5-Isopropenyl-2-Methyl-2-Vinyltetrahydrofuran, 1-(4-Methoxyphenyl)-4-Methyl-1-Penten-3-One, 5-Methyl-2-Hepten-4-One, 3-Methyl-1-Pentanol, 3-Methyl-2-(N-Pentanyl)-2-Cyclopenten-1-One, Mintlactone, Myrtenyl Acetate, 2-Trans-6-Trans-Nonadienal, 3-Oxodecanoic Acid Glyceride, 3-Oxododecanoic Acid Glyceride, 3-Oxohexadecanoic Acid Glyceride, 3-Oxohexanoic Acid

Glyceride, 3-Oxooctanoic Acid Glyceride, 3-Oxotetradecanoic Acid Glyceride, Sodium 2-(4-Methoxyphenoxy)Propanoate, Theaspirane, Acetaldehyde Ethyl Cis-3-Hexenyl Acetal, Dihydronootkatone, 1-Ethoxy-3-Methyl-2-Butene, (Z)-3 & (E)-2-Hexenyl Propionate, Hydrogen Sulfide, 1,4-Dodec-6-Enolactone, 2 Or 4-Isobutyl-(4 Or 2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, 2 Or 4-Isopropyl-(4 Or 2),6-Dimethyldihydro-4h-1,3,5-Dithiazine, Jambu Oleoresin, 3-L-Menthoxypropane-1,2-Diol, 4-Methoxy-2-Methyl-2-Butanethiol, Gamma-Methyldecalactone, 2-Methyl-3-Tetrahydrofuranthiol, Methylthio 2-(Acetyloxy)Propionate, 3-(Methylthio)Hexyl Acetate, Methylthio-2-(Propionyloxy)Propionate, Octahydrocoumarin, 2-Pentanethiol, D-Ribose, Sclareolide, 1,3,5-Undecatriene, Vanillyl Butyl Ether, 4-Acetoxy-2,5-Dimethyl-3(2h)Furanone, 2,4-Dihydroxybenzoic Acid, 1,2-Dimethoxybenzene, 4-Ethyloctanoic Acid, Ethyl Vanillin Beta-D-Glucopyranoside, 5-Hydroxy-2-Dodecenoic Acid Lactone, 4-Hydroxy-3-Methyloctanoic Acid Lactone, 2-Isopropyl-N,2,3-Trimethylbutyramide, L-Menthol Ethylene Glycol Carbonate, L-Menthol 1- And 2-Propylene Glycol Carbonate, L-Menthone 1,2-Glycerol Ketal, D,L-Menthone 1,2-Glycerol Ketal, Cis- And Trans-Menthone-8-Thioacetate, Mono-Menthyl Succinate, Neohesperidin Dihydrochalcone, Sodium 3-Methoxy-4-Hydroxycinnamate, Taurine, Thaumatin B - Recombinant, Vanillyl Ethyl Ether, 3-Acetylmercaptohexyl Acetate, 2-Acetyl-2-Thiazoline, Dl-Alanine, L-Arginine, 1-Buten-1-Yl Methyl Sulfide, Delta-3-Carene, Cycloionone, Daidai Peel Oil, 1-Decen-3-Ol, Diethyl Sulfide, 2,5-Dihydroxy-1,4-Dithiane, Diisopropyl Disulfide, 2,4-Dimethylanisole, 2-(3,7-Dimethyl-2,6-Octadienyl)Cyclopentanone, (E,R)-3,7-Dimethyl-1,5,7-Octatrien-3-Ol, 1,4-Dithiane, Ethyl 2,4,7-Decatrienoate, 2-Ethylhexanethiol, Ethyl 2-(Methyldithio)Propionate, Ethyl 2-(Methylthio)Acetate, Ethyl 3-(Methylthio)Butyrate, Ethyl Vanillin Isobutyrate, Ethyl Vanillin Propylene Glycol Acetal, Alpha-Farnesene, 4-[(2-Furanmethyl)Thio]-2-Pentanone, (Z)-4-Hepten-1-Ol, 1-Hexanethiol, 3-Hydroxy-2-Oxopropionic Acid, Beta-Ionyl Acetate, Alpha-Isomethylionyl Acetate, Litsea Cubeba Oil, L-Lysine, Cis- And Trans-P-1(7),8-Menthadien-2-Yl Acetate, 3-(L-Menthoxy)-2-Methylpropane-1,2-Diol, 3-Mercaptohexanol, 3-Mercaptohexyl Acetate, 3-Mercaptohexyl Butyrate, 3-Mercaptohexyl Hexanoate, 3-Mercapto-3-Methyl-1-Butanol, 3-Mercapto-3-Methylbutyl Formate, 1-Mercapto-2-Propanone, S-Methyl Benzothioate, 3-Methylbutanethiol, Methyl (E)-2-(Z)-4- Decadienoate, Methyl Ethyl Sulfide, Methyl Ethyl Trisulfide, S-Methyl Hexanethioate, 2-(4-Methyl-2-Hydroxyphenyl)Propionic Acid-Gamma-

Lactone, S-Methyl 3-Methylbutanethioate, Methyl 3-Methyl-1-Butenyl Disulfide, 2-Methyl-2-(Methyldithio)Propanal, S-Methyl 4-Methylpentanethioate, (E)-7-Methyl-3-Octen-2-One, 3-Methyl-2-Oxobutanoic Acid, 3-Methyl-2-Oxopentanoic Acid, 4-Methyl-2-Oxopentanoic Acid, Methyl Phenyl Disulfide, Methyl Phenyl Sulfide, 2-Methyl-1-Propanethiol, Methylsulfinylmethane, S-Methyl Thioacetate, 3-Methylthiohexanal, Bis-(Methylthio)Methane, Methylthiomethyl Butyrate, Methylthiomethyl Hexanoate, 4-(Methylthio)-2-Oxobutanoic Acid, 1-Methylthio-2-Propanone, 3-(Methylthio)Propyl Acetate, (E)-3-(Z)-6-Nonadien-1-Ol, (Z)(Z)-3,6-Nonadien-1-Ol, 8-Ocimenyl Acetate, (E)-2-Octen-1-Ol, (E)-2-Octen-4-Ol, (E)-2-(2-Octenyl)Cyclopentanone, (Z)-5-Octenyl Propionate, 2-Oxopentanedioic Acid, 2-Oxo-3-Phenylpropionic Acid, 2-Pentyl Butyrate, Phenylethyl Mercaptan, Prenyl Thioacetate, Prenylthiol, 2-Propanethiol, 1-Pyrroline, Sarcodactylis Oil, Sodium Diacetate, Sodium 3-Mercaptooxopropionate, Tea Tree Oil, 2,3,4-Trimethyl-3-Pentanol, Vanillin 3-(L - Menthoxy)Propane-1,2-Diol Acetal, Vanillin Propylene Glycol Acetal, 2-Aminoacetophenone, Bornyl Butyrate, (E)-2-Butenoic Acid, Cyclohexanone, Cyclopentanone, 2,4-Decadien-1-Ol, 9-Decenal, 2-Decenoic Acid, 4-Decenoic Acid, 2,5-Diethyl-3-Methylpyrazine, 3,5-Diethyl-2-Methylpyrazine, 6,7-Dihydro-2,3-Dimethyl-5h-Cyclopentapyrazine, P-Tert-Butylphenol, 2-Ethyl-6-Methylpyrazine, (E)-2-Heptenoic Acid, 2,4-Hexadienoic Acid, (E,E)-, 2,4-Hexadien-1-Ol, 3-Hexenal, (Z)-2-Hexen-1-Ol, Cis-3-Hexenyl Anthranilate, Trans-2-Hexenyl Butyrate, (E)-2-Hexenyl Formate, 3-Hexenyl 2-Hexenoate, Cis-3-Hexenyl Isobutyrate, Trans-2-Hexenyl Isovalerate, Cis-3-Hexenyl Tiglate, Trans-2-Hexenyl Propionate, Cis-3-Hexenyl Propionate, 3-Hexenyl 2-Oxopropionate, Trans-2-Hexenyl Pentanoate, Cis-3-Hexenyl Valerate, 5-(Cis-3-Hexenyl)Dihydro-5-Methyl-2(3h)Furanone, 4-Isopropyl-2-Cyclohexenone, 2-Isopropylpyrazine, 2-Methyl-3-(1-Oxopropoxy)-4h-Pyran-4-One, Mesquite Wood Extract, 2-Methoxybenzoic Acid, 3-Methoxybenzoic Acid, 4-Methoxybenzoic Acid, 2-Methylcyclohexanone, 3-Methylcyclohexanone, 4-Methylcyclohexanone, 2-Methyl-3-(Methylthio)Furan, Michelia Alba Oil, 2,4-Nonadien-1-Ol, (E,Z)-2,6-Nonadien-1-Ol Acetate, (E,Z)-3,6-Nonadien-1-Ol Acetate, (E)-2-Nonenoic Acid, 3-Nonen-2-One, (E,E)-2,4-Octadien-1-Ol, (E)-2-Octenoic Acid, Phenyl Acetate, 2-Phenylphenol, Phenyl Salicylate, Propylpyrazine, 3,5,5-Trimethylcyclohexanol, 2,3,6-Trimethylphenol, 2-Acetyl-3-Methylpyrazine, 1-Amino-2-Propanol, 3-Decanone, Cis-4-Decenyl Acetate, Diisopropyl Trisulfide, (E) & (Z)-4,8-Dimethyl-3,7-Nonadien-2-One, 2,5-Dimethyl-3-

Oxo-(2h)-Fur-4-Yl Butyrate, Cis And Trans-2,5-Dimethyltetrahydrofuran-3-Thiol, Cis And Trans-2,5-Dimethyltetrahydro-3-Furyl Thioacetate, Ethanethioic Acid, S-(2-Methyl-3-Furanyl) Ester, Ethyl 4-(Acetylthio)Butyrate, Ethyl Cis-4-Heptenoate, Ethyl 5-Hexenoate, (+/-)-Ethyl 3-Mercaptobutyrate, Ethyl 5-(Methylthio)Valerate, Furfuryl Propyl Disulfide, (+/-)-Heptan-3-Yl Acetate, (+/-)-Heptan-2-Yl Butyrate, (Z)-3-Hexenyl (E)-2-Butenoate, (E)-2-Hexenyl Hexanoate, 4-Hydroxybenzaldehyde, 2-Hydroxybenzoic Acid, 4-Hydroxybenzoic Acid, 4-Hydroxybenzyl Alcohol, 4-Hydroxy-3-Methoxybenzoic Acid, 3(2)-Hydroxy-5-Methyl-2(3)-Hexanone, Isopentylidene Isopentylamine, Isoprenyl Acetate, D,L-Menthol(+/-)-Propylene Glycol Carbonate, Erythro And Threo-3-Mercapto-2-Methylbutan-1-Ol, 3-Mercapto-2-Methylpentanal, (+/-)-2-Mercapto-2-Methylpentan-1-Ol, 3-Mercapto-2-Methylpentan-1-Ol (Racemic), 4-Mercapto-4-Methyl-2-Pentanone, (+/-)-2-Methyl-1-Butanol, (+/-)-3-Methyl-Gamma-Decalactone, 2-Methylheptan-3-One, (E)-6-Methyl-3-Hepten-2-One, Methyl 2-Methyl-2-Propenoate, Methyl (Methylthio)Acetate, 2-(Methylthio)Ethanol, 12-Methyltridecanal, L-Monomenthyl Glutarate, (+/-)-Nonan-3-Yl Acetate, (E,E)-3,5-Octadien-2-One, (+/-)-Octan-3-Yl Formate, Paraldehyde, 4-Pentenyl Acetate, 2-Pentyl Acetate, Perilla Leaf Oil, Phenethyl Isothiocyanate, Pyrazine, Sodium 4-Methoxybenzoyloxyacetate, 2,4,6-Triisobutyl-5,6-Dihydro-4h-1,3,5-Dithiazine, 2,4,6-Trimethyldihydro-4h-1,3,5-Dithiazine, 3,7,11-Trimethyl-2,6,10-Dodecatrienal, (+/-)-(2,6,6-Trimethyl-2-Hydroxycyclohexylidene)Acetic Acid Gamma-Lactone, Trithiahexane-2,3,5, 6-Undecanone, Vanillin Erythro And Threo-Butan-2,3-Diol Acetal, Acetaldehyde Diisoamyl Acetal, Amyl Methyl Disulfide, Benzyl Hexanoate, Butyl Ethyl Disulfide, Beta-Cyclodextrin, Diethyl Trisulfide, (+/-)-3,5-Diethyl-1,2,4-Trithiolane, (+/-)-Dihydrofarnesol, Dihydromintlactone, Dihydroxyacetone, 2,5-Dimethyl-3-Furanthiol Acetate, 2,5-Dimethylthiazole, (Z)-4-Dodecenal, 4,5-Epoxy-(E)-2-Decenal, Ethyl 3-Acetoxy-2-Methyl Butyrate, S-Ethyl 2-Acetylamino Ethanethioate, Ethyl Methyl Disulfide, Ethyl Propyl Disulfide, Ethyl Propyl Trisulfide, O-Ethyl S-(2-Furylmethyl)Thiocarbonate, Geranyl Tiglate, Grape Seed Extract, Trans-4-Hexenal, (E)-2-Hexenal Diethyl Acetal, 2-Hexyl-4,5-Dimethyl-1,3-Dioxolane, 4-Hydroxy-3,5,-Dimethoxy Benzaldehyde, 4-Hydroxy-2,3-Dimethyl-2,4-Nonadienoic Acid Gamma Lactone, 4-Hydroxy-4-Methyl-5-Hexenoic Acid Gamma Lactone, 3-Hydroxy-4-Phenylbutan-2-One, P-Menthane-3,8-Diol, L-Menthyl Methylether, Methyl 5-Acetoxyhexanoate, 3-[(2-Methyl-3-Furyl)Thio]-2-Butanone, 3-Methyl-2,4-Nonanedione, (+/-)-

2-(5-Methyl-5-Vinyl-Tetrahydrofuran-2-Yl)Propionaldehyde, 9-Octadecenal, 2,3-Octanedione, (+/-)-1-Phenylethylmercaptan, 4-Propenylphenol, 2-Propionylpyrroline, 2-Propionyl-2-Thiazoline, 2-Propylpyridine, (Z)-8-Tetradecenal, Tuberose Lactone, 2-Undecen-1-Ol, (+/-)-1-Acetoxy-1-Ethoxyethane, 4-Acetyl-2,5-Dimethyl-3(2h)-Furanone, 2-Acetyl-3,5-Dimethylfuran, Allyl Crotonate, Allyl Propyl Disulfide, Allyl Valerate, 4-Allylphenol, Allyl Thiohexanoate, O-Anisaldehyde, N-Benzoylanthranilic Acid, Thujyl Alcohol, L-Bornyl Acetate, 2-Butylfuran, Butyl Isothiocyanate, 2-Butyrylfuran, Carvone-5,6-Oxide, Beta-Caryophyllene Oxide, Citronellyl Anthranilate, N-Cyclopropyl-Trans-2-Cis-6-Nonadienamide, Trans-Alpha-Damascone, 2,4,7-Decatrienal, 2-Decylfuran, Dehydronootkatone, Diacetyl Tartaric Acid Esters Of Mono- And Diglycerides, Diethyl Disulfide, Mixture Of 3,6-Diethyl-1,2,4,5-Tetrathiane And 3,5-Diethyl-1,2,4-Trithiolane, 2,4-Difurfurylfuran, Diisopentyl Thiomalate, Dimercaptomethane, 1,1-Dimethoxy-Trans-2-Hexene, 2,4-Dimethyl-1,3-Dioxolane, 3,5- And 3,6-Dimethyl-2-Isobutylpyrazine, 2,5-Dimethyl-3(2h)-Furanone, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Ol, (+/-)-Trans- And Cis-4,8-Dimethyl-3,7-Nonadien-2-Yl Acetate, 2,5-Dimethyl-4-Ethoxy-3(2h)-Furanone, (+/-)-Trans- And Cis-5-(2,2-Dimethylcyclopropyl)-3-Methyl-2-Pentenal, 2,5-Dimethylfuran, Divanillin, (+/-)-2,8-Epithio-Cis-P-Menthane, Epoxyoxophorone, Tomato Lycopene, Ethane-1,1-Dithiol, Ethyl Cis-3-Hexenoate, N-Ethyl Trans-2-Cis-6-Nonadienamide, Ethyl Furfuryl Ether, Ethyl N-Ethylanthranilate, Ethyl N-Methylanthranilate, (+/-)-4-Ethyloctanal, Eugenyl Isovalerate, Furfuryl 2-Methyl-3-Furyl Disulfide, 1-(2-Furyl)Butan-3-One, Geranic Acid, Geranyl 2-Methylbutyrate, Geranyl Valerate, Glyceryl-Lacto Esters Of Fatty Acids, Hept-Trans-2-En-1-Yl Acetate, Hept-2-En-1-Yl Isovalerate, Trans-2-Trans-4-Heptadien-1-Ol, 2-Heptanethiol, (+/-)-1-Hepten-3-Ol, Cis-And Trans-2-Heptylcyclopropanecarboxylic Acid, 2,4-Hexadienyl Propionate, 2,4-Hexadienyl Acetate, 2,4-Hexadienyl Butyrate, 2,4-Hexadienyl Isobutyrate, 2-Hexenyl Octanoate, Hexyl 3-Mercaptobutanoate, 2-Hexylthiophene, 4-Hydroxy-2-Butenoic Acid Gamma-Lactone, 3-Hydroxy-2-Octanone, 2-(2-Hydroxy-4-Methyl-3-Cyclohexenyl)Propionic Acid Gamma-Lactone, 5-Hydroxy-4-Methylhexanoic Acid Delta-Lactone, 1-(3-Hydroxy-5-Methyl-2-Thienyl)Ethanone, (+/-)-2-Hydroxypiperitone, Beta-Ionone Epoxide, Isoambrettolide, Isobornyl Isobutyrate, Isobornyl 2-Methylbutyrate, N-Isobutyldeca-Trans-2-Trans-4-Dienamide, Isobutyl N-Methylanthranilate, (+/-)-Isobutyl 3-Methylthiobutyrate, Beta-Isomethylionone, Isopropenyl

Acetate, Lactylated Fatty Acid Esters Of Glycerol And Propylene Glycol, 2-(L-Menthoxy)Ethanol, Menthyl Pyrrolidone Carboxylate, Menthyl Valerate, 4-Mercapto-2-Pentanone, (+/-)-4-Mercapto-4-Methyl-2-Pentanol, 2-Mercaptoanisole, Methionyl Butyrate, Trans- And Cis-1-Methoxy-1-Decene, (S1)-Methoxy-3-Heptanethiol, 2-Methoxyacetophenone, Methyl Cis-3-Hexenoate, Methyl Cis-5-Octenoate, Methyl 3-(Methylthio)Butanoate, Methyl 3-Mercaptobutanoate, Methyl Isopentyl Disulfide, Methyl N,N-Dimethylanthranilate, Methyl N-Acetylanthranilate, Methyl N-Formylanthranilate, S-Methyl Propanethioate, 2-Methyl-1-Methylthio-2-Butene, 3-Methyl-2(3-Methylbut-2-En-1-Yl)Furan, 3-(5-Methyl-2-Furyl)Prop-2-Enal, 5-Methyl-3(2h)-Furanone, 6-Methyl-5-Hepten-2-Yl Acetate, 2-Methylbut-2-En-1-Ol, 2-Methylfuran, 4-Methylpent-2-Enoic Acid, 3-(Methylthio)-2-Butanone, 4-(Methylthio)-2-Pentanone, (+/-)-3-(Methylthio)Heptanal, 3-(Methylthio)Methylthiophene, Methylthiomethylmercaptan, Mono- And Diglycerides Of Fatty Acids, Nona-2,4,6-Trienal, 2-Nonenoic Acid Gamma-Lactone, Cis-3-Octenyl Propionate, L-Ornithine Monochlorohydrate/Ornithine, Pent-2-Enyl Hexanoate, 2-Pentanoylfuran, 2-Pentenoic Acid, (+/-)-2-Phenyl-4-Methyl-2-Hexenal, Phthalide, Phytol, Phytyl Acetate, 3-Pinanone, Piperitenone Oxide, L-Piperitone, Polyglycerol Esters Of Fatty Acids, Prenyl Acetate, Prenyl Benzoate, Prenyl Caproate, Prenyl Formate, Prenyl Isobutyrate, Propyl 2-Mercaptopropionate, Propylene Glycol Mono- And Diesters Of Fatty Acids, Tetradec-2-Enal, Thioacetic Acid, Trans- And Cis-2,4,8-Trimethyl-3,7-Nonadien-2-Ol, (+/-)-2,4,8-Trimethyl-7-Nonen-2-Ol, 3,7,11-Trimethyldodeca-2,6,10-Trienyl Acetate, 2,4,6-Trithiaheptane, Tyramine, Verbenone, Vetiverol, Vetiveryl Acetate, Cornmint Oil, Mentha Arvensis L., Heliopsis Longipes Extract, Scotch Spearmint Oil, Mentha Cardiaca L., Natural Hickory Smoke Flavor, Betaine, Adenosine Monophosphate; Monosodium, Or Disodium Adenylate, Isoquercitrin, Enzymatically Modified, Glycerol Ester Of Rosin, Gum Arabic, Hydrogen Octenylbutane Dioate, (-)-Homoeriodictyol, Sodium Salt, Sugar Beet Juice Extract, (+/-)-N,N-Dimethyl Menthyl Succinamide, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl)Oxalamide, N-(Heptan-4-Yl)Benzo[D][1,3]Dioxole-5-Carboxamide, N1-(2,4-Dimethoxybenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl)Oxalamide, N1-(2-Methoxy-4-Methylbenzyl)-N2-(2-(5-Methylpyridin-2-Yl)Ethyl)Oxalamide, 1,6-Hexalactam, Ethylamine, Propylamine, Isopropylamine, Isobutylamine, Sec-Butylamine, 2-Methylbutylamine, Pentylamine, Hexylamine, 2-

Methylpiperidine, Trimethylamine Oxide, Triethylamine, Tripropylamine, N,N-Dimethylphenethylamine, 2-Acetyl-1-Pyrroline, Piperazine, Butyramide, Methyl 10-Undecenoate, N-Gluconyl Ethanolamine, N-Gluconyl Ethanolamine Phosphate, N-Lactoyl Ethanolamine, N-Lactoyl Ethanolamine Phosphate, Ethanethiol, Heptane-1-Thiol, S-Isopropyl 3-Methylbut-2-Enethioate, 3-Methylhexanal, 4-Pentenal, Propyl Propane Thiosulfonate, Alpha -Ionene, Gardenia Gummifera Distillate, Piper Longum Distillate, N-3,7-Dimethyl-2,6-Octadienylcyclopropylcarboxamide, (+/-)-Ethyl 2-Hydroxy-2-Methylbutyrate, (+/-)-Ethyl 2-Hydroxy-3-Methylvalerate, 2-(2-Hydroxyphenyl) Cyclopropanecarboxylic Acid Delta Lactone, 2-Decanone, (+/-)-Trans- And Cis-2-Hexenal Propylene Glycol Acetal, (+/-)-Trans- And Cis-2-Hexenal Glyceryl Acetal, Trans-2-Hexenyl 2-Methylbutyrate, 2-(4-Methyl-5-Thiazolyl)Ethyl Formate, 2-(4-Methyl-5-Thiazolyl)Ethyl Propionate, 2-(4-Methyl-5-Thiazolyl)Ethyl Butanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Isobutyrate, 2-(4-Methyl-5-Thiazolyl)Ethyl Hexanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Octanoate, 2-(4-Methyl-5-Thiazolyl)Ethyl Decanoate, (+/-)-3-(Ethylthio)Butanol, Decalepis Hamiltonii Extract, 2-(Trans-2-Pentenyl)Cyclopentanone, 3,9-Dimethyl-6-(1-Methylethyl)-1,4-Dioxaspiro[4.5]Decan-2-One, Cis- And Trans-2-Isobutyl-4-Methyl-1,3-Dioxolane, Cis- And Trans-2-Isopropyl-4-Methyl-1,3-Dioxolane, 4-Aminobutyric Acid, 3-Mercaptoheptyl Acetate, Ethyl Trans-2-Methyl-2-Pentenoate, Methyl Hexyl Ether, Trans-2-Trans-4-Nonadiene, 1-Octene, Cis- And Trans-Ethyl 2,4-Dimethyl-1,3-Dioxolane-2-Acetate, Citronellyl Trans-2-Methyl-2-Butenoate, 5-Acetyl-2,3-Dihydro-1,4-Thiazine, Bis(1-Mercaptopropyl)Sulfide, 2,5-Dithiahexane, Pseudoionone, Cis- And Trans-L-Mercapto-P-Menthan-3-One, Trans-2-Nonen-4-One, Trans-4-Nonenal, 1,1'-(Tetrahydro-6a-Hydroxy-2,3a,5-Trimethylfuro[2,3-D]-1,3-Dioxole-2,5-Diyl)Bis-Ethanone, Trans-2-Decenol, Cis-2-Pentenol, 2-Methylbutyl 3-Methyl-2-Butenoate, Citric And Fatty Acid Esters Of Glycerol, L-Menthyl (R,S)-3-Hydroxybutyrate, N-[(Ethoxycarbonyl)Methyl)-P-Menthane-3-Carboxamide, N-[2-(3,4-Dimethoxyphenyl)Ethyl]-3,4-Dimethoxycinnamic Acid Amide, Mixture Of Methyl Cyclohexadiene And Methylene Cyclohexene, (+/-)-Cis- And Trans-1,2-Dihydroperillaldehyde, 5,7-Dihydroxy-2-(3-Hydroxy-4-Methoxyphenyl)Chroman-4-One, Phenethyl Decanoate, 3,6-Dimethyl-2,3,3a,4,5,7a-Hexahydrobenzofuran, 2-Methylacetophenone, 1-Ethyl-2-Pyrrolecarboxaldehyde, Cis- And Trans-5-Ethyl-2,5-Dihydro-4-Methyl-2-(1-Methylpropyl)-Thiazole, Cis And Trans-5-Ethyl-4-Methyl-2-(2-Methylpropyl)-Thiazoline, 2-Methyl-3-Furyl

Methylthiomethyl Disulfide, Pyrrolidino-[1,2e]-4h-2,4-Dimethyl-1,3,5-Dithiazine, S-Allyl-L-Cysteine, 5-Pentyl-3h-Furan-2-One, 3-Mercapto-3-Methyl-1-Butyl Acetate, (+/-)-3-Mercapto-1-Butyl Acetate, 5-Nonen-Trans-2-One, L-Menthyl Acetoacetate, 4-Octen-3-One, 2,4,6-Trimethylphenol, 4-Hydroxyacetophenone, (+/-)-[R-(E)]-5-Isopropyl-8-Methylnona-6,8-Dien-2-One, 1-Methyl-1h-Pyrrole-2-Carboxaldehyde, 1-Pentanethiol, Pentadecanoic Acid, Tridecanal, Tridecanoic Acid, Hexyl Heptanoate, Dodecyl Propionate, Hexyl Nonanoate, Dodecyl Butyrate, Heptyl Heptanoate, Hexyl Decanoate, Ethyl 4-Methylpentanoate, Ethyl 2-Ethylbutyrate, Ethyl 2-Ethylhexanoate, 5-Methylhexyl Acetate, 4-Methylpentyl Isovalerate, 3,7-Dimethyloctanal, Cis-4-Decenol, Cis-5-Octenoic Acid, 5-Hexenol, 3-Isopropenylpentanedioic Acid, Methyl 4-Pentenoate, Cis-4-Octenol, 11-Dodecenoic Acid, Trans-3-Hexenol, Trans-4-Octenoic Acid, Isobutyl 10-Undecenoate, Cis-9-Octadecenyl Acetate, Ethyl 4-Pentenoate, Ethyl 3-Octenoate, 3-Octenoic Acid, Cis-9-Octadecenol, Decanal Propyleneglycol Acetal, Acetaldehyde Hexyl Isoamyl Acetal, Dodecanal Dimethyl Acetal, Nonanal Dimethyl Acetal, Heptanal Propyleneglycol Acetal, Hexanal Hexyl Isoamyl Acetal, Hexanal Dihexyl Acetal, Isovaleraldehyde Diethyl Acetal, Valeraldehyde Propyleneglycol Acetal, Nonanal Propyleneglycol Acetal, Undecanal Propyleneglycol Acetal, Valeraldehyde Dibutyl Acetal, Acetaldehyde 1,3-Octanediol Acetal, Hexanal Octane-1,3-Diol Acetal, Isovaleraldehyde Glyceryl Acetal, Acetaldehyde Di-Cis-3-Hexenyl Acetal, 2,6-Dimethyl-5-Heptenal Propyleneglycol Acetal, Octanal Propyleneglycol Acetal, Hexanal Butane-2,3-Diol Acetal, Pecan Shell Flour, Di-(1-Propenyl)-Sulfide (Mixture Of Isomers), 2-Pentylthiophene, 5-Ethyl-2-Methylthiazole, 2,4-Dimethylpyridine, 3-(4-Hydroxyphenyl)-1-(2,4,6-Trihydroxyphenyl)Propan-1-One, (+/-)-Ethyl 3-Hydroxy-2-Methylbutyrate, (+/-)-Ethyl 3-Mercapto-2-Methylbutanoate, (+/-)-Cis- And Trans-2-Methyl-2-(4-Methyl-3-Pentenyl)Cyclopropanecarbaldehyde, Trimethyloxazole, 2,5-Dimethyl-4-Ethyloxazole, 2-Propyl-4,5-Dimethyloxazole, 2-Isobutyl-4,5-Dimethyloxazole, 2-Methyl-4,5-Benzoxazole, 2-Nonanone Propyleneglycol Acetal, 6-Methyl-5-Hepten-2-One Propyleneglycol Acetal, 2-Pentyl 2-Methylpentanoate, 3-Octyl Butyrate, Dimethylbenzyl Carbinyl Crotonate, Dimethylbenzyl Carbinyl Hexanoate, 1,5-Octadien-3-One, 10-Undecen-2-One, 2,4-Dimethyl-4-Nonanol, 8-Nonen-2-One, 8-P-Menthene-1,2-Diol, Caryophyllene Alcohol, D-2,8-P-Menthadien-1-Ol, Cis-3-Nonen-1-Ol, Trans-3-Hexenyl Acetate, 4-(Methylthio)Butyl Isothiocyanate, 6-(Methylthio)Hexyl Isothiocyanate, 5-

(Methylthio)Pentyl Isothiocyanate, Amyl Isothiocyanate, 3-Butenyl Isothiocyanate, 2-Butylisothiocyanate, Ethyl Isothiocyanate, 5-Hexenyl Isothiocyanate, Hexyl Isothiocyanate, Isoamyl Isothiocyanate, Isobutyl Isothiocyanate, Isopropyl Isothiocyanate, Methyl Isothiocyanate, 4-Pentenyl Isothiocyanate, Benzyl Isothiocyanate, 2,4-Dimethyl-3-Oxazoline, 3,4-Dihydroxybenzoic Acid, 3-Hydroxybenzoic Acid, (+/-)-Acetaldehyde Ethyl Isopropyl Acetal, (+/-)-6-Methyloctanal, 5-Ethyl-2,3-Dimethylpyrazine, 2-Hydroxy-4-Methoxybenzaldehyde, 3-(Methylthio)Propyl Hexanoate, Sodium Lauryl Sulfate, Beta-Angelicalactone, 7-Decen-4-Olide, 9-Decen-5-Olide, 8-Decen-5-Olide, 6-[5(6)-Decenoyloxy]Decanoic Acid, Ethyl 5-Acetoxyoctanoate, Ethyl 5-Hydroxydecanoate, 9-Dodecen-5-Olide, Gamma-Octadecalactone, Delta-Octadecalactone, 9-Tetradecen-5-Olide, Orin Lactone, Methyl 3-Hydroxybutyrate, Methyl 3-Acetoxy-2-Methylbutyrate, Ethyl 2-Acetylhexanoate, Ethyl 3-Hydroxyoctanoate, Methyl 3-Acetoxyoctanoate, 5-Oxooctanoic Acid, 5-Oxodecanoic Acid, Ethyl 5-Oxodecanoate, 5-Oxododecanoic Acid, Ethyl 2-Acetyloctanoate, 2-Oxo-3-Ethyl-4-Butanolide, 3-Isopropenyl-6-Oxoheptanoic Acid, Hydroxyacetone, 1-Hydroxy-4-Methyl-2-Pentanone, Propyleneglycol Diacetate, Propyleneglycol Dipropionate, Propyleneglycol Dibutyrate, Propyleneglycol Mono-2-Methylbutyrate, Propyleneglycol Di-2-Methylbutyrate, Propyleneglycol Monohexanoate, Propyleneglycol Dihexanoate, Propyleneglycol Dioctanoate, Dimethyl Adipate, Dipropyl Adipate, Diisopropyl Adipate, Diisobutyl Adipate, Dioctyl Adipate, Ethyl Acetoacetate Ethyleneglycol Ketal, Methyl Levulinate, Ethyl Levulinate Propyleneglycol Ketal, Propyl Levulinate, Isoamyl Levulinate, Dodecyl Lactate, Hexadecyl Lactate, Propyl Pyruvate, Hydroxycitronellal Propyleneglycol Acetal, Citral Glyceryl Acetal, Mushroom Oil, Distilled, Propyleneglycol Monobutyrate, Cis-3-Hexenyl Acetoacetate, 2-Methoxy-6-(2-Propenyl)Phenol, Myricitrin, (R)-(-)-1-Octen-3-Ol, Cis-3-Hexenoic Acid, Ammonia (Also Includes Ammonium Chloride), Naringin Dihydrochalcone, N-P-Benzeneacetonitrilementhanecarboxamide, Cubebol, 6-Methylheptanal, (+/-)-Cis- And Trans-2-Pentyl-4-Propyl-1,3-Oxathiane, Choline Chloride (Also Includes Choline), 3-[(2-Methyl-3-Furyl)Thio]Butanal, (-)-Sclareol, (+)-Cedrol, D-Limonen-10-Ol, (2,4)- And (3,5)- And (3,6)-Dimethyl-3-Cyclohexenylcarbaldehyde, 1,3-P-Menthadien-7-Al, P-Menthan-7-Ol, P-Menth-1-En-9-Ol, Menthyl Formate, Menthyl Propionate, Cyclotene Propionate, 3,3,5-Trimethylcyclohexyl Acetate, Dl-Camphor, 2-Cyclopentylcyclopentanone, Carvyl Palmitate,

Cyclohexanone Diethyl Ketal, 2-Cyclohexenone, 8,9-Dehydrotheaspirone, L-Fenchone, Ethylenediaminetetraacetic Acid Disodium Salt, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-Ol, 2,2,6,7-Tetramethylbicyclo[4.3.0]Nona-4,9(1)-Dien-8-One, 6-Hydroxycarvone, L-Menthyl Butyrate, Pinocarvyl Isobutyrate, 2-Pentenyl-4-Propyl-1,3-Oxathiane (Mixture Of Isomers), Acetaldehyde Di-Isobutylacetal, Acetaldehyde Ethyl Isobutyl Acetal, 4-(2,2,3-Trimethylcyclopentyl)Butanoic Acid, Perillaldehyde Propyleneglycol Acetal, 2,6,6-Trimethyl-2-Hydroxycyclohexanone, Acetoin Propyleneglycol Ketal, 4,5-Octanedione, Ethyl Maltol Isobutyrate, 2-Tetrahydrofurfuryl 2-Mercaptopropionate, Nerolidol Oxide, Furfural Propyleneglycol Acetal, Methyl 3-(Furfurylthio)Propionate, Furfuryl Decanoate, Di-2-Furylmethane, (E)-Ethyl 3-(2-Furyl)Acrylate, Furfuryl Formate, 2-Methylbenzofuran, 5-Methylfurfuryl Alcohol, 2-Methyl-3-Furyl 2-Methyl-3-Tetrahydrofuryl Disulfide, Ethyl 2,5-Dimethyl-3-Oxo-4(2h)-Furyl Carbonate, Acai Berry Extract, 4-(2-Propenyl)Phenyl-Beta-D-Glucopyranoside, N-(2-(Pyridin-2-Yl)Ethyl)-3-P-Menthanecarboxamide, (+/-)-N-Lactoyl Tyramine, Cis,Cis-3,6-Nonadienyl Acetate, Trans-2-Nonenyl Acetate, Cis-3-Nonenyl Acetate, Cis-6-Nonenyl Acetate, Dihydrogalangal Acetate, 2,3,3-Trimethylindanone, N-Ethyl-2,2-Diisopropylbutanamide, Cyclopropanecarboxylic Acid (2-Isopropyl-5-Methylcyclohexyl)Amide, Magnolol, 2-(Methylthio)Ethyl Acetate, 3-(Methylthio)Propyl Mercaptoacetate, Ethyl 2-Hydroxyethyl Sulfide, Ethyl 3-(Methylthio)-Cis-2-Propenoate, Ethyl 3-(Methylthio)-Trans-2-Propenoate, Ethyl 3-(Methylthio)-2-Propenoate, 4-Methyl-2-(Methylthiomethyl)-2-Hexenal, 5-Methyl-2-(Methylthiomethyl)-2-Hexenal, 4-Methyl-2-(Methylthiomethyl)-2-Pentenal, 1-(3-(Methylthio)-Butyryl)-2,6,6-Trimethylcyclohexene, 2-Oxothiolane, Butyl Beta-(Methylthio)Acrylate, Ethyl 3-(Ethylthio)Butyrate, Methyl Octyl Sulfide, Methyl 1-Propenyl Sulfide, Diisoamyl Disulfide, Bis(2-Methylphenyl) Disulfide, Mixture Of Butyl Propyl Disulfide And Propyl And Butyl Disulfide, Di-Sec-Butyl Disulfide, Methyl 2-Methylphenyl Disulfide, Diisoamyl Trisulfide, Dodecanethiol, 2-Hydroxyethanethiol, 4-Mercapto-4-Methyl-2-Hexanone, 3-Mercapto-3-Methylbutyl Isovalerate, 3-Mercaptohexanal, Methyl Isobutanethioate, 3-Mercaptopropionic Acid, 2-Ethylhexyl 3-Mercaptopropionate, Butanal Dibenzyl Thioacetal, Methional Diethyl Acetal, Ethyl Linalyl Ether, Myrcenyl Methyl Ether, Linalool Oxide Pyranoid, 2-Hydroxy-5-Methylacetophenone, 2-Phenylpropanal Propyleneglycol Acetal, Cinnamaldehyde Propyleneglycol Acetal, Ethyl Alpha-Acetylcinnamate, Ethyl 2-Hydroxy-3-

Phenylpropionate, 3-(3,4-Methylenedioxyphenyl)-2-Methylpropanal, Trehalose, Dihydrate, Rebaudioside A, N-(2-Hydroxyethyl)-2,3-Dimethyl-2-Isopropylbutanamide, N-(1,1-Dimethyl-2-Hydroxyethyl)-2,2-Diethylbutanamide, Dimenthyl Glutarate, Trans-3-Nonen-1-Ol, 4-Formyl-2-Methoxyphenyl 2-Hydroxypropanoate, Guaiacol Butyrate, Guaiacol Isobutyrate, Guaiacol Propionate, Ethyl 5-Hydroxyoctanoate, Isopropylideneglyceryl 5-Hydroxydecanoate, 2-Ethyl-2-Hexenal, Ethyl 2-Hexenoate, Propyl Sorbate, Cis-2-Octenol, 2-Hexylidenehexanal, Trans-2-Tridecenol, 2-Phenoxyethyl Propionate, Propyl 4-Tert-Butylphenylacetate, 2-Phenoxyethanol, Phenyl Butyrate, Piperonal Propyleneglycol Acetal, Benzyl Levulinate, 4-Methylbenzyl Alcohol, Phenylacetaldehyde Diethyl Acetal, Benzyl Nonanoate, Anisaldehyde Propyleneglycol Acetal, 4-Methylbenzaldehyde Propyleneglycol Acetal, Phenylacetaldehyde Propyleneglycol Acetal, 2-Ethylhexyl Benzoate, 2-Ethyl-3-Methylthiopyrazine, 2-Ethoxy-3-Isopropylpyrazine, 2-Ethoxy-3-Ethylpyrazine, Butyl Beta-Naphthyl Ether, Isoamyl Phenethyl Ether, 2-Acetyl-4-Isopropenylpyridine, 4-Acetyl-2-Isopropenylpyridine, 2-Acetyl-4-Isopropylpyridine, 2-Methoxypyridine, 6-Methoxyquinoline, 2-Pentylthiazole, 2-Thienylmethanol, 2-Acetyl-5-Methylthiophene, 4-Methyl-3-Thiazoline, 3,4-Dimethylthiophene, 1-(2-Thienyl)Ethanethiol, 4,5-Dimethyl-2-Isobutylthiazole, Cyclotene Butyrate, 3-(Methylthio)Propylamine, 4-Methyl-Cis-2-Pentene, 1-Nonene, 1,3,5,7-Undecatetraene, Ethyl Alpha-Ethyl-Beta-Methyl-Beta-Phenylglycidate, Methyl Beta-Phenylglycidate, D-8-P-Menthene-1,2-Epoxide, L-8-P-Menthene-1,2-Epoxide, 2,3-Epoxyoctanal, 2,3-Epoxyheptanal, 2,3-Epoxydecanal, Hydroxy(4-Hydroxy-3-Methoxyphenyl)Acetic Acid, 4-Hydroxy-4-(3-Hydroxy-1-Butenyl)-3,5,5-Trimethyl-2-Cyclohexen-1-One, (+/-)-2,6,10,10-Tetramethyl-1-Oxaspiro[4,5]Deca-2,6-Dien-8-One, 4-(2-Butenylidene)-3,5,5-Trimethylcyclohex-2-En-1-One, Digeranyl Ether, 1-(4-Hydroxy-3-Methoxyphenyl)Decan-3-One, Alpha-Bisabolol, 2(4)-Ethyl-4(2),6-Dimethyldihydro-1,3,5-Dithiazine (Mixture Of Isomers), (2e,6e/Z,8e)-N-(2-Methylpropyl)-2,6,8-Decatrienamide, 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-2(1h)One And 4-Amino-5,6-Dimethylthieno[2,3-D]Pyrimidin-2(1h)One Hydrochloride, 1,1-Propanedithiol, Z-5-Octenyl Acetate, (E)-4-Undecenal, Delta-Hexadecalactone, Trilobatin, L-Isoleucine, 1-(2-Furfurylthio)-Propanone, (+/-)-4-Methyl-2-Propyl-1,3-Oxathiane, N-(2-Methylcyclohexyl)-2,3,4,5,6-Pentafluorobenzamide, Arachidonic Acid Enriched Oil, 5-Isopropyl-2,6-Diethyl-2-Methyltetrahydro-2h-Pyran, (1r,2s,5r)-N-(4-Methoxyphenyl)-5-Methyl-2-(1-Methylethyl)Cyclohexanecarboxamide,

Octahydro-4,8a-Dimethyl-4a(2h)-Naphthol, 2-Methyl-4,5-Dihydrofuran-3-Thiol, (2s,5r)-N-[4-(2-Amino-2-Oxoethyl)Phenyl]-5-Methyl-2-(Propan-2-Yl)Cyclohexanecarboxamide, (+/-)-6-Octyltetrahydro-2h-Pyran-2-One, (+/-)-2-Methyltetrahydrofuran-3-Thiol Acetate, (+/-)-3-Hydroxy-3-Methyl-2,4-Nonanedione, 1,1-Dipropoxyethane, Chrysanthemum Extract, Honeysuckle Extract, Yuzunone, L-Methionylglycine, N-Cyclopropyl-5-Methyl-2-Isopropylcyclohexanecarboxamide, 3-Pentanethiol, 2-Ethyl-2,5-Dihydro-4-Methylthiazole, 1-(Methyldithio)-2-Propanone, 5-Methylfurfurylmercaptan, 4-Mercapto-3-Methyl-2-Butanol, Ferrous L-Lactate, O-Trans-Coumaric Acid, 3-[(4-Amino-2,2-Dioxido-1h-2,1,3-Benzothiadiazin-5-Yl)Oxy]-2,2-Dimethyl-N-Propylpropanamide, 2(3),5-Dimethyl-6,7-Dihydro-5h-Cyclopentapyrazine, Cinnamyl Benzoate, Beta-Naphthyl Methyl Ether, Rosemary Oleoresin, 9-Decen-2-One, 1-(Methylthio)-3-Octanone, 3',7-Dihydroxy-4'-Methoxyflavan, Glutamyl-Valyl-Glycine, L-Threonine, Luo Han Fruit Concentrate, L-Alanyl-L-Glutamine, Sucrose Monopalmitate, Ethyl 2-Mercapto-2-Methylpropionate, 2-(3,4-Dihydroxyphenyl)-5,7-Dihydroxy-4-Chromanon, N-[N-[3-(3-Hydroxy-4-Methoxyphenyl)Propyl]-L-Alpha-Asparty]-L-Phenylalanine 1-Methylester, Monohydrate, Sweet Blackberry Leaves Extract, 2-[(2-(P-Menthyloxy)Ethoxy]Ethanol, Succinic Acid, Rebaudioside C, 1-(2-Hydroxyphenyl)-3-(Pyridin-4-Yl)Propan-1-One, 1-(2-Hydroxy-4-Isobutoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, 1-(2-Hydroxy-4-Methoxyphenyl)-3-(Pyridin-2-Yl)Propan-1-One, Trans-4-Tert-Butylcyclohexanol, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3-Hydroxybenzyl)Imidazolidine-2,4-Dione, 3-(1-((3,5-Dimethylisoxazol-4-Yl)Methyl)-1h-Pyrazol-4-Yl)-1-(3-Hydroxybenzyl)-5,5-Dimethylimidazolidine-2,4-Dione, Clover Herb Distillate, Glucosyl Steviol Glycosides, Dl-Isomenthol, O-Ethyl S-1-Methoxyhexan-3-Yl Carbonothioate, Cassyrane, 1,5-Octadien-3-Ol, (+/-)-2-Mercaptoheptan-4-Ol, 3-(Methylthio)Decanal, (4z,7z)-Trideca-4,7-Dienal, Persicaria Odorata Oil, Amacha Leaves Extract, Glutamyl-2-Aminobutyric Acid, Glutamyl-Norvalyl-Glycine, Glutamyl-Norvaline, N1-(2,3-Dimethoxybenzyl)-N2-(2-(Pyridin-2-Yl)Ethyl) Oxalamide, 1-(2-Hydroxy-4-Methylcyclohexyl)Ethanone, Mexican Lime Oil, Expressed, Persian Lime Oil, Expressed, (+/-)-6-Methoxy-2,6-Dimethylheptanal, 3,5-Undecadien-2-One, (+/-)-2,5-Undecadien-1-Ol, Triethylthialdine, 4-Methylpentyl 4-Methylvalerate, Cis-3-Hexenyl Salicylate, (R)-N-(1-Methoxy-4-Methylpentan-2-Yl)-3,4-Dimethylbenzamide, N-Acetyl Glutamate, 1,3-Propanediol, Szechuan Pepper Extract, Tasmannia Lanceolata Extract, Mentha Longifolia Oil,

Mangosteen Distillate, Ethyl 3-(2-Hydroxyphenyl)Propanoate, 1-Cyclopropanemethyl-4-Methoxybenzene, Prenyl Thioisobutyrate, Prenyl Thioisovalerate, (-)-Matairesinol, Stevioside, 1-(2,4-Dihydroxyphenyl)-3-(3-Hydroxy-4-Methoxyphenyl)Propan-1-One, Ethyl 5-Formyloxydecanoate, 3-[3-(2-Isopropyl-5-Methyl-Cyclohexyl)Ureido]Butyric Acid Ethyl Ester, 2-Isopropyl-4-Methyl-3-Thiazoline, 2,6,10-Trimethyl-9-Undecenal, 5-Mercapto-5-Methyl-3-Hexanone, Meyer Lemon Oil, Cold Pressed, Citrus X Meyeri, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 60%, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 80%, (E)-N-[2-(1,3-Benzodioxol-5-Yl)Ethyl]-3-(3,4-Dimethoxyphenyl)Prop-2-Enamide, 4-Amino-5-(3-(Isopropylamino)-2,2-Dimethyl-3-Oxopropoxy)-2-Methylquinoline-3-Carboxylic Acid, 3-Methyl-5-(2,2,3-Trimethylcyclopent-3-En-1-Yl)Pent-4-En-2-Ol, (1-Methyl-2-(1,2,2-Trimethylbicyclo[3.1.0]Hex-3-Ylmethyl)Cyclopropyl)Methanol, Erospicata Oil, Mentha Spicata, Curly Mint Oil, Mentha Spicata Var. Crispa, (+/-)-2-Mercapto-5-Methylheptan-4-One, Caryophylla-3(4),8-Dien-5-Ol, L-Cysteine Methyl Ester Hydrochloride, 2(3)-Hexanethiol, Mixture Of 1-Vinyl-3-Cyclohexenecarbaldehyde And 4-Vinyl-1-Cyclohexenecarbaldehyde, (+/-)-4-Hydroxy-6-Methyl-2-Heptanone, 2-Octyl-2-Dodecenal, 2-Hexyl-2-Decenal, Trans-6-Octenal, (E)-3-Benzo[1,3]Dioxol-5-Yl-N,N-Diphenyl-2-Propenamide, 2,6-Dimethyl-5-Heptenol, (+/-)-Bicyclo[2.2.1]Hept-5-Ene-2-Carboxylic Acid, Ethyl Ester, 3-(Acetylthio)Hexanal, (+/-)-3-Mercapto-1-Pentanol, (3r,3s)-3-[[(4-Amino-2,2-Dioxido-1h-2,1,3-Benzothiadiazin-5-Yl)Oxy]Methyl]-N-Cyclopentyl-2-Oxo-3-Piperidinecarboxamide, (+/-)-1-Cyclohexylethanol, (+/-)-8-Methyldecanal, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside C 30%, (+/-)-Naringenin, 2-(((3-(2,3-Dimethoxyphenyl)-1h-1,2,4-Triazol-5-Yl)Thio)Methyl)Pyridine, (2r)-3',5-Dihydroxy-4'-Methoxyflavanone, Glucosylated Rubus Suavissimus Extract, 20-30% Glucosylated Rubusoside Glycosides, Olive Fruit Extract, (S)-1-(3-(((4-Amino-2,2-Dioxido-1h-Benzo[C][1,2,6]Thiadiazin-5-Yl)Oxy)Methyl)Piperidin-1-Yl)-3-Methylbutan-1-One, 8-Methylnonanal, Mixture Of Ricinoleic Acid, Linoleic Acid, And Oleic Acid, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside A 22%, Steviol Glycoside Extract, Stevia Rebaudiana, Rebaudioside C 22%, Pinocarvyl Acetate, N-Ethyl-5-Methyl-2-(1-Methylethenyl)Cyclohexanecarboxamide, 2-(4-Methylphenoxy)-N-(1h-Pyrazol-3-Yl)-N-(Thiophen-2-Ylmethyl)Acetamide, Ethyl-2-(4-Hydroxy-3-Methoxy-Phenyl)Acetate, Ginger Mint Oil (Mentha X Gracilis), Palmitoylated Green Tea Extract Catechins, 2-(5-Isopropyl-2-

Methyltetrahydrothiophen-2-Yl)Ethanol, Glucosylated Rubus Suavissimus Extract, 60% Glucosylated Rubusoside Glycosides, Sandalwood Austrocaledonicum Oil, and Sugar Cane Distillate.

[0216] In some embodiments, the ingestible composition is a beverage. In some embodiments, the beverage is selected from the group consisting of colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies. In some embodiments, the beverage is a soft drink.

[0217] In some embodiments, the ingestible composition is a food or beverage product or formulation. Examples of food and beverage products or formulations include, but are not limited to sweet coatings, frostings, or glazes for ingestible products or any entity included in the Soup category, the Dried Processed Food category, the Beverage category, the Ready Meal category, the Canned or Preserved Food category, the Frozen Processed Food category, the Chilled Processed Food category, the Snack Food category, the Baked Goods category, the Confectionery category, the Dairy Product category, the Ice Cream category, the Meal Replacement category, the Pasta and Noodle category, and the Sauces, Dressings, Condiments category, the Baby Food category, and/or the Spreads category.

[0218] In general, the Soup category refers to canned/preserved, dehydrated, instant, chilled, UHT and frozen soup. For the purpose of this definition soup(s) means a food prepared from meat, poultry, fish, vegetables, grains, fruit and other ingredients, cooked in a liquid which may include visible pieces of some or all of these ingredients. It may be clear (as a broth) or thick (as a chowder), smooth, pureed or chunky, ready-to-serve, semi-condensed or condensed and may be served hot or cold, as a first course or as the main course of a meal or as a between meal snack (sipped like a beverage). Soup may be used as an ingredient for preparing other meal components and may range from broths (consommé) to sauces (cream or cheese-based soups).

[0219] The Dehydrated and Culinary Food Category usually means: (i) Cooking aid products such as: powders, granules, pastes, concentrated liquid products, including concentrated bouillon, bouillon and bouillon like products in pressed cubes, tablets or powder or granulated form, which are sold separately as a finished product or as an ingredient within a product, sauces and recipe mixes (regardless of technology); (ii) Meal solutions products such as: dehydrated and freeze dried soups, including dehydrated soup mixes, dehydrated instant soups, dehydrated ready-to-cook soups, dehydrated or ambient preparations of ready-made dishes, meals and single serve entrees including pasta, potato and rice dishes; and (iii) Meal embellishment products such as: condiments, marinades, salad dressings, salad toppings, dips, breading, batter mixes, shelf stable spreads, barbecue sauces, liquid recipe mixes, concentrates, sauces or sauce mixes, including recipe mixes for salad, sold as a finished product or as an ingredient within a product, whether dehydrated, liquid or frozen.

[0220] The Beverage category usually means beverages, beverage mixes and concentrates, including but not limited to, carbonated and non-carbonated beverages, alcoholic and non-alcoholic beverages, ready to drink beverages, liquid concentrate formulations for preparing beverages such as sodas, and dry powdered beverage precursor mixes. The Beverage category also includes the alcoholic drinks, the soft drinks, sports drinks, isotonic beverages, and hot drinks. The alcoholic drinks include, but are not limited to beer, cider/perry, FABs, wine, and spirits. The soft drinks include, but are not limited to carbonates, such as colas and non-cola carbonates; fruit juice, such as juice, nectars, juice drinks and fruit flavored drinks; bottled water, which includes sparkling water, spring water and purified/table water; functional drinks, which can be carbonated or still and include sport, energy or elixir drinks; concentrates, such as liquid and powder concentrates in ready to drink measure. The drinks, either hot or cold, include, but are not limited to coffee or ice coffee, such as fresh, instant, and combined coffee; tea or ice tea, such as black, green, white, oolong, and flavored tea; and other drinks including flavor-, malt- or plant-based powders, granules, blocks or tablets mixed with milk or water.

[0221] The Snack Food category generally refers to any food that can be a light informal meal including, but not limited to Sweet and savory snacks and snack bars. Examples of snack food include, but are not limited to fruit snacks, chips/crisps, extruded snacks, tortilla/corn chips, popcorn, pretzels, nuts and other sweet and savory snacks. Examples of snack bars

include, but are not limited to granola/muesli bars, breakfast bars, energy bars, fruit bars and other snack bars.

[0222] The Baked Goods category generally refers to any edible product the process of preparing which involves exposure to heat or excessive sunlight. Examples of baked goods include, but are not limited to bread, buns, cookies, muffins, cereal, toaster pastries, pastries, waffles, tortillas, biscuits, pies, bagels, tarts, quiches, cake, any baked foods, and any combination thereof.

[0223] The Ice Cream category generally refers to frozen dessert containing cream and sugar and flavoring. Examples of ice cream include, but are not limited to: impulse ice cream; take-home ice cream; frozen yoghurt and artisanal ice cream; soy, oat, bean (e.g., red bean and mung bean), and rice-based ice creams.

[0224] The Confectionery category generally refers to edible product that is sweet to the taste. Examples of confectionery include, but are not limited to candies, gelatins, chocolate confectionery, sugar confectionery, gum, and the likes and any combination products.

[0225] The Meal Replacement category generally refers to any food intended to replace the normal meals, particularly for people having health or fitness concerns. Examples of meal replacement include, but are not limited to slimming products and convalescence products.

[0226] The Ready Meal category generally refers to any food that can be served as meal without extensive preparation or processing. The ready meal includes products that have had recipe "skills" added to them by the manufacturer, resulting in a high degree of readiness, completion and convenience. Examples of ready meal include, but are not limited to canned/preserved, frozen, dried, chilled ready meals; dinner mixes; frozen pizza; chilled pizza; and prepared salads.

[0227] The Pasta and Noodle category includes any pastas and/or noodles including, but not limited to canned, dried and chilled/fresh pasta; and plain, instant, chilled, frozen and snack noodles.

[0228] The Canned/Preserved Food category includes, but is not limited to canned/preserved meat and meat products, fish/seafood, vegetables, tomatoes, beans, fruit, ready meals, soup, pasta, and other canned/preserved foods.

[0229] The Frozen Processed Food category includes, but is not limited to frozen processed red meat, processed poultry, processed fish/seafood, processed vegetables, meat substitutes, processed potatoes, bakery products, desserts, ready meals, pizza, soup, noodles, and other frozen food.

[0230] The Dried Processed Food category includes, but is not limited to rice, dessert mixes, dried ready meals, dehydrated soup, instant soup, dried pasta, plain noodles, and instant noodles. The Chill Processed Food category includes, but is not limited to chilled processed meats, processed fish/seafood products, lunch kits, fresh cut fruits, ready meals, pizza, prepared salads, soup, fresh pasta and noodles.

[0231] The Sauces, Dressings and Condiments category includes, but is not limited to tomato pastes and purees, bouillon/stock cubes, herbs and spices, monosodium glutamate (MSG), table sauces, soy based sauces, pasta sauces, wet/cooking sauces, dry sauces/powder mixes, ketchup, mayonnaise, mustard, salad dressings, vinaigrettes, dips, pickled products, and other sauces, dressings and condiments.

[0232] The Baby Food category includes, but is not limited to milk- or soybean-based formula; and prepared, dried and other baby food.

[0233] The Spreads category includes, but is not limited to jams and preserves, honey, chocolate spreads, nut based spreads, and yeast based spreads.

[0234] The Dairy Product category generally refers to edible product produced from mammal's milk. Examples of dairy product include, but are not limited to drinking milk products, cheese, yoghurt and sour milk drinks, and other dairy products.

[0235] Additional examples for ingestible compositions, particularly food and beverage products or formulations, are provided as follows. Exemplary ingestible compositions include one or more confectioneries, chocolate confectionery, tablets, countlines, bagged selflines/softlines, boxed assortments, standard boxed assortments, twist wrapped miniatures, seasonal chocolate, chocolate with toys, alfajores, other chocolate confectionery, mints, standard mints, power mints, boiled sweets, pastilles, gums, jellies and chews, toffees, caramels and nougat, medicated confectionery, lollipops, liquorice, other sugar confectionery, bread, packaged/industrial bread, unpackaged/artisanal bread, pastries, cakes, packaged/industrial cakes, unpackaged/artisanal cakes, cookies, chocolate coated biscuits, sandwich biscuits, filled

biscuits, savory biscuits and crackers, bread substitutes, breakfast cereals, rte cereals, family breakfast cereals, flakes, muesli, other cereals, children's breakfast cereals, hot cereals, ice cream, impulse ice cream, single portion dairy ice cream, single portion water ice cream, multi-pack dairy ice cream, multi-pack water ice cream, take-home ice cream, take-home dairy ice cream, ice cream desserts, bulk ice cream, take-home water ice cream, frozen yoghurt, artisanal ice cream, dairy products, milk, fresh/pasteurized milk, full fat fresh/pasteurized milk, semi skimmed fresh/pasteurized milk, long-life/uht milk, full fat long life/uht milk, semi skimmed long life/uht milk, fat-free long life/uht milk, goat milk, condensed/evaporated milk, plain condensed/evaporated milk, flavored, functional and other condensed milk, flavored milk drinks, dairy only flavored milk drinks, flavored milk drinks with fruit juice, soy milk, sour milk drinks, fermented dairy drinks, coffee whiteners, powder milk, flavored powder milk drinks, cream, cheese, processed cheese, spreadable processed cheese, unspreadable processed cheese, unprocessed cheese, spreadable unprocessed cheese, hard cheese, packaged hard cheese, unpackaged hard cheese, yoghurt, plain/natural yoghurt, flavored yoghurt, fruited yoghurt, probiotic yoghurt, drinking yoghurt, regular drinking yoghurt, probiotic drinking yoghurt, chilled and shelf-stable desserts, dairy-based desserts, soy-based desserts, chilled snacks, fromage frais and quark, plain fromage frais and quark, flavored fromage frais and quark, savory fromage frais and quark, sweet and savory snacks, fruit snacks, chips/crisps, extruded snacks, tortilla/corn chips, popcorn, pretzels, nuts, other sweet and savory snacks, snack bars, granola bars, breakfast bars, energy bars, fruit bars, other snack bars, meal replacement products, slimming products, convalescence drinks, ready meals, canned ready meals, frozen ready meals, dried ready meals, chilled ready meals, dinner mixes, frozen pizza, chilled pizza, soup, canned soup, dehydrated soup, instant soup, chilled soup, hot soup, frozen soup, pasta, canned pasta, dried pasta, chilled/fresh pasta, noodles, plain noodles, instant noodles, cups/bowl instant noodles, pouch instant noodles, chilled noodles, snack noodles, canned food, canned meat and meat products, canned fish/seafood, canned vegetables, canned tomatoes, canned beans, canned fruit, canned ready meals, canned soup, canned pasta, other canned foods, frozen food, frozen processed red meat, frozen processed poultry, frozen processed fish/seafood, frozen processed vegetables, frozen meat substitutes, frozen potatoes, oven baked potato chips, other oven baked potato products, non-oven frozen potatoes, frozen bakery products, frozen desserts, frozen ready meals,

frozen pizza, frozen soup, frozen noodles, other frozen food, dried food, dessert mixes, dried ready meals, dehydrated soup, instant soup, dried pasta, plain noodles, instant noodles, cups/bowl instant noodles, pouch instant noodles, chilled food, chilled processed meats, chilled fish/seafood products, chilled processed fish, chilled coated fish, chilled smoked fish, chilled lunch kit, chilled ready meals, chilled pizza, chilled soup, chilled/fresh pasta, chilled noodles, oils and fats, olive oil, vegetable and seed oil, cooking fats, butter, margarine, spreadable oils and fats, functional spreadable oils and fats, sauces, dressings and condiments, tomato pastes and purees, bouillon/stock cubes, stock cubes, gravy granules, liquid stocks and fonds, herbs and spices, fermented sauces, soy based sauces, pasta sauces, wet sauces, dry sauces/powder mixes, ketchup, mayonnaise, regular mayonnaise, mustard, salad dressings, regular salad dressings, low fat salad dressings, vinaigrettes, dips, pickled products, other sauces, dressings and condiments, baby food, milk formula, standard milk formula, follow-on milk formula, toddler milk formula, hypoallergenic milk formula, prepared baby food, dried baby food, other baby food, spreads, jams and preserves, honey, chocolate spreads, nut-based spreads, and yeast-based spreads. Exemplary ingestible compositions also include confectioneries, bakery products, ice creams, dairy products, sweet and savory snacks, snack bars, meal replacement products, ready meals, soups, pastas, noodles, canned foods, frozen foods, dried foods, chilled foods, oils and fats, baby foods, or spreads or a mixture thereof. Exemplary ingestible compositions also include breakfast cereals, sweet beverages or solid or liquid concentrate compositions for preparing beverages, ideally so as to enable the reduction in concentration of previously known saccharide sweeteners, or artificial sweeteners.

[0236] Some embodiments provide a food or beverage product comprising about 1% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 1.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 2% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 2.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 3% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 3.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 4% (w/w) of a compound of Formula (I). Some

embodiments provide a food or beverage product comprising about 4.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 5.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 6% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 6.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 7% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 7.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 8% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 8.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 9% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 9.5% (w/w) of a compound of Formula (I). Some embodiments provide a food or beverage product comprising about 10% (w/w) of a compound of Formula (I).

[0237] Some embodiments provide a chewable composition that may or may not be intended to be swallowed. In some embodiments, the chewable composition may be gum, chewing gum, sugarized gum, sugar-free gum, functional gum, bubble gum including compounds as disclosed and described herein, individually or in combination.

[0238] Some embodiments provide supplements, nutraceuticals, functional food products (e.g., any fresh or processed food claimed to have a health-promoting and/or disease-preventing properties beyond the basic nutritional function of supplying nutrients), pharmaceutical product, over the counter (OTC) product, oral care product, cosmetic products such as sweetened lip balms, and other personal care products including compounds as disclosed and described herein, individually or in combination. The sweeteners or sweetener enhancers described herein may be used to provide a sweet flavor of any of these products. For example, in some embodiments, a compound described herein is included as an excipient in a pharmaceutical product to mask the bitterness thereof and make it more palatable to ingest. In some embodiments, a compound described herein is included in a liquid pharmaceutical or OTC product form for ingestion. In some embodiments, a compound described herein is included in a

solid pharmaceutical or OTC product form for ingestion. For example, the compound may be included in a coating on a tablet, capsule, or other typical pharmaceutical form.

[0239] In general, over the counter (OTC) product and oral care product generally refer to product for household and/or personal use which may be sold without a prescription and/or without a visit to a medical professional. Examples of the OTC products include, but are not limited to analgesics; cough, cold and allergy remedies; antihistamines and/or allergy remedies; and combinations thereof. Cough, cold and allergy remedies include, but are not limited to decongestants, cough remedies, pharyngeal preparations, medicated confectionery, antihistamines and child-specific cough, cold and allergy remedies; and combination products. Antihistamines and/or allergy remedies include, but are not limited to any systemic treatments for hay fever, nasal allergies, insect bites and stings. In some embodiments, the OTC product is a nausea relief composition, an antacid, or a heartburn relief composition.

[0240] Examples of oral hygiene product include, but are not limited to mouth cleaning strips, toothpaste, toothbrushes, mouthwashes/dental rinses, denture care, mouth fresheners, breath freshening sprays, breath freshening drops, breath freshening concentrates, chewing gum, mouth moisturizers, at-home teeth whiteners and dental floss.

[0241] Some embodiments provide methods of increasing the sweetness of an ingestible composition, comprising combining at least one compound described herein with an ingestible composition that does not already comprise the compound.

Concentrates

[0242] In some embodiments, compounds as disclosed and described herein, individually or in combination, may be provided in a flavoring concentrate formulation, e.g., suitable for subsequent processing to produce a ready-to-use (i.e., ready-to-serve) product. By "a flavoring concentrate formulation", it is meant a formulation which should be reconstituted with one or more diluting medium (i.e., a "diluent") to become a ready-to-use composition. The term "ready-to-use composition" is used herein interchangeably with "ingestible composition." In one embodiment, the ready-to-use composition includes a composition that can be directly consumed by a human or animal. The flavoring concentrate formulation is typically used by mixing with or diluted by one or more diluting medium, e.g., any consumable or ingestible ingredient or

product, to impart or modify one or more flavors to the diluting medium. Such a use process is often referred to as reconstitution. The reconstitution can be conducted in a household setting or an industrial setting. For example, a frozen fruit juice concentrate can be reconstituted with water or other aqueous medium by a consumer in a kitchen to obtain the ready-to-use fruit juice beverage. In another example, a soft drink syrup concentrate can be reconstituted with water or other aqueous medium by a manufacturer in large industrial scales to produce the ready-to-use soft drinks. Suitable diluants include, but are not limited to, water, carbonated water, nitrogen infused water, or solutions having the forgoing as solvents. Concentrate formulations may be used in a variety of food, beverage, and medicinal production techniques. For example, the concentrate may be dosed into a composition as part of a food or beverage manufacturing process. In some embodimemnts, the concentrate is dosed into an intermediate composition to which additional ingredients or added and/or additional processing is conducted upon prior to producing the final food or beverage product. Since the flavoring concentrate formulation has the flavoring agent or flavor modifying agent in a concentration higher than the ready-to-use composition, the flavoring concentrate formulation is typically not suitable for being consumed directly without reconstitution. There are many benefits of using and producing a flavoring concentrate formulation. For example, one benefit is the reduction in weight and volume for transportation as the flavoring concentrate formulation can be reconstituted at the time of usage by the addition of suitable solvent, solid or liquid.

[0243] In one embodiment, the flavoring concentrate formulation comprises i) compounds as disclosed and described herein, individually or in combination; ii) a carrier; and iii) optionally at least one adjuvant. The term "carrier" denotes a usually inactive accessory substance, such as solvents, binders, or other inert medium, which is used in combination with the present compound and one or more optional adjuvants to form the formulation. For example, water or starch can be a carrier for a flavoring concentrate formulation. In some embodiments, the carrier is the same as the diluting medium for reconstituting the flavoring concentrate formulation; and in other embodiments, the carrier is different from the diluting medium. The term "carrier" as used herein includes, but is not limited to, ingestibly acceptable carrier.

[0244] Suitable carriers for use in a concentrate formulation include but are not limited to starches (e.g., food starches), maltodextrin, gums, liquid carriers, and encapsulants.

Non-limiting examples of liquid carriers include water, ethanol, propylene glycol, Triacetin, Neobee, and glycerin. Non-limting examples of starches include modified corn starch. Non-limiting examples of gums include Gum Aragic (Gum Acadia) and Xanthan Gum. Other suitable solid carriers for a concentrate formulation include dextrose, silicon dioxide, magnesium carbonate, and tricalcium phosphate.

[0245] The term "adjuvant" denotes an additive which supplements, stabilizes, maintains, or enhances the intended function or effectiveness of the active ingredient, such as the compound of the present invention. In one embodiment, the at least one adjuvant comprises one or more flavoring agents. The flavoring agent may be of any flavor known to one skilled in the art or consumers, such as the flavor of chocolate, coffee, tea, mocha, French vanilla, peanut butter, chai, or combinations thereof. In another embodiment, the at least one adjuvant comprises one or more sweeteners. The one or more sweeteners can be any of the sweeteners described in this application. In another embodiment, the at least one adjuvant comprises one or more ingredients selected from the group consisting of a emulsifier, a stabilizer, an antimicrobial preservative, an antioxidant, vitamins, minerals, fats, starches, protein concentrates and isolates, salts, and combinations thereof. Examples of emulsifiers, stabilizers, antimicrobial preservatives, antioxidants, vitamins, minerals, fats, starches, protein concentrates and isolates, and salts are described in U.S. Pat. No. 6,468,576, the content of which is hereby incorporated by reference in its entirety for all purposes. Non-limiting examples of stabilizers include Pectin, Xanthan Gum, CMC (Carboxyl Methyl Cellulose), Polysorbate 60, Polysorbate 80, Medium Chain Triglycerides, Cellulose Gel, Cellulose Gum, Sodium caseinate, Modified Food Starch, Gum Arabic (Gum Acacia), and Carrageenan.

[0246] In one embodiment, the present flavoring concentrate formulation can be in a form selected from the group consisting of liquid including solution and suspension, solid, foamy material, paste, gel, cream, and a combination thereof, such as a liquid containing certain amount of solid contents. In one embodiment, the flavoring concentrate formulation is in form of a liquid including aqueous-based and nonaqueous-based. In some embodiments, the present flavoring concentrate formulation can be carbonated or non-carbonated. In some embodiments, the composition is a solid. In some embodiments, the solid is a powder.

[0247] Solid concentrate formulations can be prepared by any suitable technique, including but not limited to combining a solid production composition (such as described above) with a solid carrier and any additional ingredients. Suitable combining techniques include dry or wet mixing, spray coating, spray drying, etc.

[0248] Liquid concentrate formulations can be prepared by any suitable technique, including but not limited to dissolving or suspending a solid production composition (such as described above) and any additional ingredients in a liquid carrier. Other suitable techniques include mixing a liquid production composition (such as described above) with a liquid carrier and any additional ingredients.

[0249] The flavoring concentrate formulation may further comprise a freezing point depressant, nucleating agent, or both as the at least one adjuvant. The freezing point depressant is an ingestibly acceptable compound or agent which can depress the freezing point of a liquid or solvent to which the compound or agent is added. That is, a liquid or solution containing the freezing point depressant has a lower freezing point than the liquid or solvent without the freezing point depressant. In addition to depress the onset freezing point, the freezing point depressant may also lower the water activity of the flavoring concentrate formulation. The examples of the freezing point depressant include, but are not limited to, carbohydrates, oils, ethyl alcohol, polyol, e.g., glycerol, and combinations thereof. The nucleating agent denotes an ingestibly acceptable compound or agent which is able to facilitate nucleation. The presence of nucleating agent in the flavoring concentrate formulation can improve the mouthfeel of the frozen Blushes of a frozen slush and to help maintain the physical properties and performance of the slush at freezing temperatures by increasing the number of desirable ice crystallization centers. Examples of nucleating agents include, but are not limited to, calcium silicate, calcium carbonate, titanium dioxide, and combinations thereof.

[0250] In one embodiment, the flavoring concentrate formulation is formulated to have a low water activity for extended shelf life. Water activity is the ratio of the vapor pressure of water in a formulation to the vapor pressure of pure water at the same temperature. In one embodiment, the flavoring concentrate formulation has a water activity of less than about 0.85. In another embodiment, the flavoring concentrate formulation has a water activity of less than

about 0.80. In another embodiment, the flavoring concentrate formulation has a water activity of less than about 0.75.

[0251] In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 2 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 5 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 10 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 15 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 20 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 30 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 40 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 50 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is at least 60 times of the concentration of the compound in a ready-to-use composition. In one embodiment, the flavoring concentrate formulation has the present compound in a concentration that is up to 100 times of the concentration of the compound in a ready-to-use composition.

[0252] In some embodiments, the flavoring concentrate formulation comprises a compound described herein in a concentration from about 0.1% to about 95% by weight. In some embodiments, the flavoring concentrate formulation comprises a compound described herein in a concentration from about 1% to about 95% by weight. In some embodiments, the flavoring concentrate formulation comprises a compound described herein in a concentration from about 5% to about 95% by weight. In some embodiments, the flavoring concentrate

formulation comprises a compound described herein in a concentration from about 10% to about 95% by weight. In some embodiments, the flavoring concentrate formulation comprises a compound described herein in a concentration from about 50% to about 95% by weight. In some embodiments, the flavoring concentrate formulation comprises a compound described herein in a concentration from about 75% to about 95% by weight. In some embodiments, the compound is present in the flavoring concentrate formulation in an amount from about 1% to about 10% by weight. In some embodiments, the compound is present in the flavoring concentrate formulation in an amount from about 1% to about 20% by weight. In some embodiments, the compound is present in the flavoring concentrate formulation in an amount from about 5% to about 10% by weight. In some embodiments, the compound is present in the flavoring concentrate formulation in an amount from about 5% to about 20% by weight. In some embodiments, the compound is present in the flavoring concentrate formulation in an amount from about 5% to about 50% by weight.

[0253] In some embodiments, the compound is present in the flavoring concentrate formulation in an amount greater than about 0.1%, 0.5%, 1%, 2%, 5%, 10%, 20%, 30%, 50%, 75%, 90%, or 95% by weight.

[0254] In some embodiments, the flavoring concentrate formulation has a pH of less than or equal to 7. In some embodiments, the flavoring concentrate formulation has a pH of less than 7. In some embodiments, the compsosition has a pH greater than or equal to 7. In some embodiments, the flavoring concentrate formulation has a pH of greater than 7. In some embodiments, the flavoring concentrate formulation has a pH between 6 and 10, between 6 and 9, between 6 and 8, between 6 and 7, between 1 and 7, between 1 and 6, between 1 and 5, between 1 and 4, between 1 and 3, or between 1 and 2. In some embodiments, the flavoring concentrate formulation has a pH of about 1, of about 1.5, of about 2, of about 2.5, of about 3, of about 3.5, of about 4, of about 4.5, of about 5, of about 5.5, of about 6, of about 6.5, or of about 7. **[0252]** Some embodiments provide a method of preparing an ingestible composition comprising reconstituting or otherwise diluting the flavoring concentrate formulation to form the ingestible composition. In some embodiments, the reconstitution or dilution comprises combining the flavoring concentrate formulation with one or more ingestible acceptable ingredients. Some methods of preparing a food or beverage product includes combining a first

plurality of ingestibly acceptable ingredients to form an intermediate mixture followed by dispensing a dose of a concentrate as described above into the intermediate mixture. Some embodiments, include further adding one or more ingestibly acceptable ingredients. In general, the various ingredients and concentrate may be combined in any suitable order and technique.

Table Top Sweetener

[0255] Some embodiments include a table top sweetener that can be added to a food or beverage product to increase the sweetness thereof. Accordingly, some embodiments include a compound according to formula (I), and particularly one or more of Compounds 1-35 described herein, in a ready-to-use sweetener composition. In some embodiments, the composition includes a bulking agent or diluent to dilute the concentration of the compound in the composition. In some embodiments, the bulking agent is selected from one or more of maltodextrin, dextro-maltodextrin blends, corn syrup solids, sucrose, fructose, glucose, invert sugar, sorbitol, xylose, ribulose, mannose, mannitol, galactitol, lactitol, isomalt, maltose, tagatose, lactose, inulin, glycerol, propylene glycol, polydextrose, fructooligosaccharides, cellulose, cellulose derivatives, erythritol, and combinations thereof. In some embodiments, the bulking agent is a starch. In some embodiments, the bulking agent is a gum. In some embodiments, the bulking agent is selected from Gum Arabic (Gum Acacia), Maltodextrin, Modified Corn Starch, Dextrose, Silicon dioxide, Magnesium carbonate, and Tricalcium phosphate, and combinations thereof.

[0256] In some embodiments, the compound described herein and the bulking agent are both in solid particulate form in the table top sweetener composition. In some such embodiments, the particles of the compound and the bulking agent are uniformly mixed together with any other ingredients in the composition so that the compound is present at a diluted concentration. The particles of the compound and the bulking agent may be formed by any suitable means, including by grinding, milling, spray drying, spray agglomeration, fluid bed agglomeration, and wet or dry granulation, which may be performed on each agent separately or at the same time. In other embodiments, a compound described herein is coated onto the surface of solid particles of the bulking agent. In some such embodiments, the compound is coated onto the surface of particles of the bulking agent using any suitable technique, including spray-drying

a solution of the compound onto the bulking agent particles. In still other embodiments, each particle in a particulate composition includes both the compound and the bulking agent uniformly mixed. For example, particles may be formed from a solution comprising both the compound described herein and the bulking agent.

[0257] In various embodiments, the particles in the composition have an average particle size between 200 μm and 2 mm, between 200 μm and 500 μm, between 500 μm and 700 μm, or between 800 μm and 1.5 mm.

[0258] In other embodiments, the table top sweetener may be in the form of tablet, cube, or pellet, which may be formed using molds, compression of solid particles, or any other suitable means. In still other embodiments, the table top sweetene is in liquid form, such as a suspension, solution, or syrup.

[0259] In various embodiments, the weight ratio of the compound described herein to the bulking agent is from 1:1000 to 1:1, from 1:800 to 1:2, from 1:500 to 1:10, from 1:400 to 1:15, from 1:300 to 1:20, from 1:200 to 1:30, from 1:175 to 1:50, from 1:150 to 1:75, from 1:125 to 1:80, and from 1:110 to 1:90. In various embodiments, the weight percent of the compound described herein in the composition is greater than 300 ppm, greater than 500 ppm, greater than 800 ppm, greater than 0.1%, greater than 0.2%, 0.5%, greater than 1%, greater than 2%, greater than 3%, and great than 5%. In various embodiments, the weight percent of the compound described herein in the composition is from 500 ppm to 5%, from 800 ppm to 3%, from 0.1% to 3%, from 0.5% to 3%, or from 0.5% to 2%.

[0260] In various embodiments, the weight percent of the bulking agent in the composition is greater than 30%, greater than 40%, greater than 50%, greater than 60%, greater than 70%, greater than 80%, greater than 90%, greater than 95%, greater than 98%, greater than 99%, or greater than 99.5%. In various embodiments, the weight percent of the bulking agent in the composition is from 20% to 99%, from 20% to 95%, from 30% to 95%, from 40% to 95%, from 50% to 90%, from 60% to 80%, from 50% to 80%, from 5% to 50%, from 5% to 30%, from 10% to 40%, or from 10% to 30%.

[0261] In some embodiments, the table top sweetener additionally includes an anti-caking agent. Suitable anti-caking agents include, but are not limited to cream of tartar, tricalcium phosphate, powdered cellulose (including microcrystalline cellulose), magnesium

stearate, sodium bicarbonate, sodium ferrocyanide, potassium ferrocyanide, calcium ferrocyanide, sodium silicate, silicon dioxide, calcium silicate, magnesium trisilicate, talcum powder, sodium aluminosilicate, potassium aluminum silicate, calcium aluminosilicate, bentonite, aluminum silicate, stearic acid, polydimethylsiloxane.

[0262] In some embodiments, the table top sweetener is included in a portion control packet or sachet. In some embodiments, the packet or sachet is designed for single-use. The packet or sachet may be in any suitable shape or dimension. Various embodiments include a packet or sachet having a width between 0.2 inches and 2 inches or a width between 0.5 inches and 1 inch and a length between 1 inch and 5 inches or a length between 1.5 inches and 3 inches. In various embodiemnts, the packet or sachet contains between 0.5 g and 3 g or between 0.75 g and 1.5 g of the table top sweetene composition.

[0263] One embodiment for making powder or granulated table top sweetener compositions include fluid bed agglomeration processes. Finely divided particles of a solution are sprayed onto a fluidized bed of particles under moisture and temperature conditions which promote formation of an agglomerate. The solution comprises the sweetener compound and a binding agent. The spray rate can be modified to control the average particle size. Following the spraying of the particles, the particles are allowed to dry and may optionally be screened to control the particle size distribution.

[0264] In another method for making a powder or granulated tabletop sweetener composition comprises combining at least one sweetener, bulking agent, and/or anti-caking agent with an aqueous solution to form a aqueous suspension that is thoroughly blended. The suspension is heated to approximately 50 to 90° C under vacuum to remove the water while avoiding decomposition of the materials. Finally, the mixture is milled to the desired particle size.

Flavor Modifying Compounds and Compositions

[0265] In some embodiments, the compounds disclosed and described herein can be used as a flavor modifying compound (e.g., as a sweet flavor enhancing compound). Some such embodiments include compositions further comprising one or more sweeteners in combination with the one or more flavor modifying compound. In some embodiments, the compositions are

used for ingestible or non-ingestible products, such as the compositions, products, and concentrates discussed above.

[0266] In some embodiments, the compositions can be used for modulating a chemosensory receptor and/or its ligand, including modulating the activity, structure, function, expression, and/or modification of a chemosensory receptor as well as modulating, treating, or taking prophylactic measure of a condition, *e.g.*, physiological or pathological condition, associated with a chemosensory receptor. In general, a physiological or pathological condition associated with a chemosensory receptor includes a condition, disease, or disorder associated with the chemosensory receptor and/or its ligand, *e.g.*, gastrointestinal disorders, metabolic disorders, functional gastrointestinal disorders, *etc.* In some embodiments, the composition increases or enhances sweet flavor. In some embodiments, the composition modulates a sweet receptor and/or its ligand expressed in a place of the body other than the taste buds, such as an internal organ. In some embodiments, the composition can increase or enhance the sweet taste of ingestible product by contacting the ingestible product with one or more of the present compositions to form a modified composition. In some embodiments, the composition can increase or enhance the sweet taste of ingestible product by being mixed with the ingestible product with one or more of the present compositions to form a modified composition. In some embodiments, the composition can modulate the sweet receptors and/or their ligands expressed in the body other than in the taste buds.

[0267] In some embodiments, the present compositions have sucrose modifying behavior and/or sweet agonist behavior *in vitro* and/or *in vivo* (*e.g.*, as shown in sensory studies). In some embodiments, the present compositions demonstrate a favorable side-taste profile *in vivo*.

[0268] Whether or not a composition exhibits sweet modifying/agonist effects can be determined by any suitable test method. For example, the composition comprising one or more sweeteners in combination with a flavor modifying compound can be evaluated in a sensory test using a human taste panel.

[0269] In some embodiments, the composition may be diluted before being tested. In some embodiments, the composition is diluted for about 2 times, about 5, about 10, about 50,

about 100, about 200, about 300, about 400, about 500, about 1000, or more times before being tested.

[0270] The tests can be conducted with and/or without additives. In some embodiments, the composition is tested to evaluate the sweet enhancement to one or more additives. In the test, the participants can provide their impression as to the similarities of the characteristics of the sweetener compositions, with and/or without additives, with those comprising sugar. A suitable procedure for determining whether a composition has a more sugar-like taste is through the use of a panel of assessors, who measure the sweetness of the compositions.

[0271] Some embodiments provide an ingestible product containing a sufficient amount of one or more sweet flavor enhancers to significant enhance the sweetness of the ingestible product. In some embodiments, the ingestible product is a food or beverage product.

[0272] Some embodiments provide methods of increasing the sweetness of an ingestible product, comprising contacting an ingestible product with a composition comprising one or more sweetness enhancers and one or more sweeteners. Some embodiments provide methods of increasing the sweetness of an ingestible product, comprising mixing an ingestible product with a composition comprising one or more sweetness enhancers and one or more sweeteners. In some embodiments, the one or more sweeteners are as described herein. In some embodiments, the one or more sweeteners are selected from one or more compounds of Formula (I). In some embodiemnts, the one or more sweeteners is a sweetener described above. In some embodiments, the one or more sweetener enhancer is a compound disclosed and described herein (i.e., a compound according to Formula (I)).

[0273] In some embodiments, the compound of Formula (I) is one of Compounds 1-35.

[0274] Some embodiments provide a method of enhancing sweetness of a sweetener, comprising combining one or more compounds of Formula (I), or a composition comprising one or more compounds of Formula (I), with the sweetener. In some embodiments, the compound of Formula (I) is one of Compounds 1-35.

[0275] In some embodiments, the sweetener may be common saccharide sweeteners, e.g., sucrose, fructose, glucose, and sweetener compositions comprising natural sugars, such as

corn syrup (including high fructose corn syrup) or other syrups or sweetener concentrates derived from natural fruit and vegetable sources; rare natural sugars including D-allose, D-psicose, L-ribose, D-tagatose, L-glucose, L-fucose, L-arbinose, D-turanose, and D-leucrose; semi-synthetic "sugar alcohol" sweeteners such as erythritol, isomalt, lactitol, mannitol, sorbitol, xylitol, maltodextrin, and the like; and artificial sweeteners such as aspartame, saccharin, acesulfame-K, cyclamate, sucralose, and alitame. In some embodiments, the sweetener may be selected from the group consisting of cyclamic acid, mogroside, tagatose, maltose, galactose, mannose, sucrose, fructose, lactose, neotame and other aspartame derivatives, glucose, D-tryptophan, glycine, maltitol, lactitol, isomalt, hydrogenated glucose syrup (HGS), hydrogenated starch hydrolyzate (HSH), stevioside, rebaudioside A and other sweet Stevia-based glycosides, carrelame and other guanidine-based sweeteners.

[0276] In some embodiments, the compound of Formula (I) and the sweetener are present in a ratio of about 1:100,000 to 100,000:1, or any ratio in between. In some embodiments, the compound of Formula (I) and the sweetener are present in a ratio of about 1:90,000, about 1:80,000, about 1:70,000, about 1:60,000, about 1:50,000, about 1:40,000, about 1:30,000, about 1:20,000, about 1:10,000, 1:9,000, about 1:8,000, about 1:7,000, about 1:6,000, about 1:5,000, about 1:4,000, about 1:3,000, about 1:2,000, about 1:1,000, about 1:900, about 1:800, about 1:700, about 1:600, about 1:500, about 1:450, about 1:400, about 1:350, about 1:300, about 1:250, about 1:200, about 1:150, about 1:100, about 1:90, about 1:85, about 1:80, about 1:75, about 1:70, about 1:65, about 1:60, about 1:55, about 1:50, about 1:45, about 1:40, about 1:35, about 1:30, about 1:25, about 1:20, about 1:19, about 1:18, about 1:17, about 1:16, about 1:15, about 1:14, about 1:13, about 1:12, about 1:11, about 1:10, about 1:9, about 1:8, about 1:7, about 1:6, about 1:5, about 1:4, about 1:3, about 1:2, about 1:1, about 2:1, about 3:1, about 4:1, about 5:1, about 6:1, about 7:1, about 8:1, about 9:1, about 10:1, about 11:1, about 12:1, about 13:1, about 14:1, about 15:1, about 16:1, about 17:1, about 18:1, about 19:1, about 20:1, about 25:1, about 30:1, about 35:1, about 40:1, about 45:1, about 50:1, about 55:1, about 60:1, about 65:1, about 70:1, about 75:1, about 80:1, about 85:1, about 90:1, about 95:1, about 100:1, about 150:1, about 200:1, about 250:1, about 300:1, about 350:1, about 400:1, about 450:1, about 500:1, about 600:1, about 700:1, about 800:1, about 900:1, about 1,000:1, about 1,000:1, about 2,000:1, about 3,000:1, about 4,000:1, about 5,000:1, about 6,000:1, about

7,000:1, about 8000:1, about 9,000:1, about 10,000:1, about 20,000:1, about 30,000:1, about 40,000:1, about 50,000:1, about 60,000:1, about 70,000:1, about 80,000:1, about 90,000:1, about 100,000:1, or any ratio in between.

[0277] In some embodiments, the sweetener may combinations of two or more sweeteners as disclosed herein. In some embodiments, the sweetener may combinations of two, three, four or five sweeteners as disclosed herein. In some embodiments, the sweetener may be a sugar. In some embodiments, the sweetener may be a combination of one or more sugars and other natural and artificial sweeteners. In some embodiments, the sweetener is a sugar. In some embodiments, the sugar is cane sugar. In some embodiments, the sugar is beet sugar. In some embodiments, the sugar may be sucrose, fructose, glucose or combinations thereof (for example, high fructose corn syrup). In some embodiments, the sugar may be sucrose. In some embodiments, the sugar may be a combination of fructose and glucose. In some embodiments, the sugar may be a combination of about 55% fructose and about 42% glucose. In some embodiments, the sugar may be a combination of about 42% fructose and about 53% glucose. In some embodiments, the sugar may be a combination of about 90% fructose and about 10% glucose. In some embodiments, the sweetener may be a rare sugar. In some embodiments, the rare sugar is selected from the group consisting of D-allose, D-psicose, L-ribose, D-tagatose, L-glucose, L-fucose, L-arbinose, D-turanose, D-leucrose and combinations thereof. In some embodiments, the rare sugar is D-psicose. In some embodiments, the rare sugar is D-tagatose. In some embodiments, the sweetener is an artificial sweetener. In some embodiments, the artificial sweetener may be sucralose.

[0278] In some embodiments, compounds as disclosed and described herein, individually or in combination, can be used at its ligand enhancing concentrations, e.g., very low concentrations on the order of a few parts per million, in combination with one or more known sweeteners, natural or artificial, so as to reduce the concentration of the known sweetener required to prepare an ingestible composition having the desired degree of sweetness.

[0279] In some embodiments, compounds as disclosed and described herein, individually or in combination, can enhance the sweetness of a sweetener under a broad range of pH, e.g., from lower pH to neutral pH. The lower and neutral pH includes, but is not limited to, a pH from about 1.5 to about 8.5; from about 3.0 to about 8.0; from about 3.5 to about 7.5; and

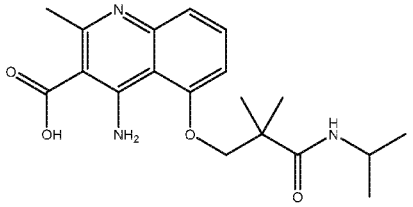
from about 4.0 to about 7. In certain embodiments, compounds as disclosed and described herein, individually or in combination, can enhance the perceived sweetness of a fixed concentration of a sweetener in taste tests at a compound concentration of about 50 μM, 40 μM, 30 μM, 20 μM, or 10 μM at both low to neutral pH value. In certain embodiments, the enhancement factor of the compounds as disclosed and described herein, individually or in combination, at the lower pH is substantially similar to the enhancement factor of the compounds at neutral pH. Such consistent sweet enhancing property under a broad range of pH allow a broad use in a wide variety of foods and beverages of the compounds as disclosed and described herein, individually or in combination. In some embodiments, the sweetener may be common saccharide sweeteners, e.g., sucrose, fructose, glucose, and sweetener compositions comprising natural sugars, such as corn syrup (including high fructose corn syrup) or other syrups or sweetener concentrates derived from natural fruit and vegetable sources; rare natural sugars including D-allose, D-psicose, L-ribose, D-tagatose, L-glucose, L-fucose, L-arbinose, D-turanose, and D-leucrose; semi-synthetic "sugar alcohol" sweeteners such as erythritol, isomalt, lactitol, mannitol, sorbitol, xylitol, maltodextrin, and the like; and artificial sweeteners such as aspartame, saccharin, acesulfame-K, cyclamate, sucralose, and alitame. In some embodiments, the sweetener may be selected from the group consisting of cyclamic acid, mogroside, tagatose, maltose, galactose, mannose, sucrose, fructose, lactose, neotame and other aspartame derivatives, glucose, D-tryptophan, glycine, maltitol, lactitol, isomalt, hydrogenated glucose syrup (HGS), hydrogenated starch hydrolyzate (HSH), stevioside, rebaudioside A and other sweet Stevia-based glycosides, carrelame and other guanidine-based sweeteners. In some embodiments, the sweetener may combinations of two or more sweeteners as disclosed herein.

[0280] In some embodiments, a compound according to Formula I (for example, one or more of Compounds 1-35) are used as a sweetener in combination with a flavor enhancer (e.g., a sweet flavor enhancer) and optionally one or more additional sweeteners (such as the sweeteners described above).

[0281] In some embodiments, the the sweet flavor enhancers are selected from one or more compounds disclosed in PCT Application Publication Nos. WO 2016/073251; WO2008/154221; WO2005/015158; WO2005/041684; WO2006/084186; WO2006/138512; WO2007/124152; WO2009/100333; WO2009/111447; WO2010/014666; WO2010/014813;

WO2011/123693; WO2012/021837; WO2012/061698; WO2013/025560; WO2014/130582; WO2014/025706; and WO2014/130513, each of which is herein incorporated by reference in their entirety, including any drawings.

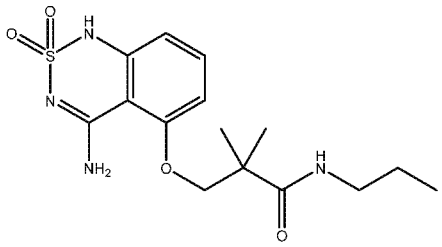
[0282] In some embodiments, the sweetness enhancer is a compound defined by formula A:



(A)

or a salt or solvate thereof.

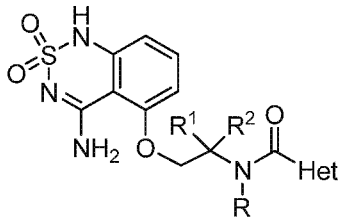
[0283] In some embodiments, the sweetness enhancer is a compound defined by formula B:



(B)

or a salt or solvate thereof.

[0284] In some embodiments, the sweetness enhancer is a compound defined by formula C:



(C), or a tautomer or salt thereof,

wherein, R^1 and R^2 are independently C_1 to C_4 alkyl; or alternatively, R^1 and R^2, together with the carbon atom to which they are attached, form a C_3 to C_7 cycloalkyl; R is hydrogen or C_1 to C_6 alkyl; and Het is heteroaryl or substituted heteroaryl.

[0285] In one embodiment of Formula (C), R is hydrogen.

[0286] In one embodiment of Formula (C), R^1 and R^2 are both methyl, ethyl, or propyl. That is, R^1 and R^2 are the same and are methyl, ethyl, or propyl.

[0287] In one embodiment of Formula (C),wherein R^1 and R^2, together with the carbon atom to which they are attached, form cyclopropyl, cyclobutyl, cylclopentyl, or cyclohexyl.

[0288] In one embodiment of Formula (C), wherein Het is an optionally substituted monocyclic five or six-membered heteroaryl containing one or more heteroatoms selected from the group of N, O, and S. By "optionally substituted", it is meant that the monocyclic five or six-membered heteroaryl can be unsubstituted or substituted.

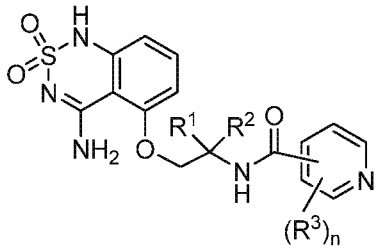
[0289] In one embodiment of Formula (C), wherein Het is selected from the group consisting of pyridine, substituted pyridine, pyrimidine, substituted pyrimidine, pyrazine, substituted pyrazine, pyridazine, substituted pyridazine, triazine, and substituted triazine.

[0290] In one embodiment of Formula (C), wherein Het is an optionally substituted bicyclic eight to twelve-membered heteroaryl containing one or more heteroatoms selected from the group of N, O, and S. By "optionally substituted" in this context, it is meant that the bicyclic eight to twelve-membered heteroaryl can be unsubstituted or substituted.

[0291] In one embodiment of Formula (C), wherein Het is tetrazolopyridine, e.g., tetrazolo[1,5-a]pyridine; triazolopyridine, e.g., [1,2,4]triazolo[4,3-a]pyridine; purine, e.g., 9H-purine; pyrazolopyridine, e.g., 1H-pyrazolo[3,4-b]pyridine; quinoline, isoquinoline, isoxazolopyridine, e.g., isoxazolo[5,4-b]pyridine; or quinolinone, e.g., quinolin-2(1H)-one; each of which is optionally substituted. By "optionally substituted" in this context, it is meant that the Het can be unsubstituted or substituted.

[0292] In one embodiment of Formula (C), Het is unsubstituted or substituted with one, two, three, or four substituents independently selected from the group consisting of halo, cyano, hydroxyl, N-oxide, amine, substituted amine, alkoxy, substituted alkoxy, aryloxy, substituted aryloxy, acyl, sulfonamide, ester, alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, and substituted heterocyclyl; or alternatively, two of the substituents, taken together with the ring atoms of Het to which they are bound, form a carbocyclyl or heterocyclyl.

[0293] In some embodiments, the sweetness enhancer is a compound defined by formula D:



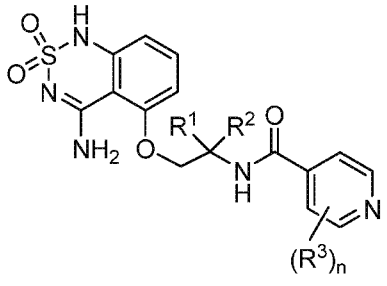
(D), or a tautomer or salt thereof,

wherein, R^1 and R^2 are independently C1 to C4 alkyl; or alternatively, R^1 and R^2, together with the carbon atom to which they are attached, form a C3 to C7 cycloalkyl; n is 0, 1, 2, or 3; and R^3 is halo, cyano, hydroxyl, amine, substituted amine, alkoxy, substituted alkoxy, aryloxy, substituted aryloxy, acyl, sulfonamide, ester, alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, or substituted heterocyclyl.

[0294] In one embodiment of Formula (D), R^1 and R^2 are both methyl, ethyl, or propyl. That is, R^1 and R^2 are the same and are methyl, ethyl, or propyl.

[0295] In one embodiment of Formula (D), R^1 and R^2, together with the carbon atom to which they are attached, form cyclopropyl, cyclobutyl, cylclopentyl, or cyclohexyl.

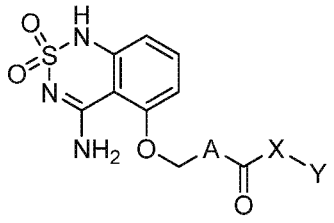
[0296] In some embodiments, the sweetness enhancer is a compound defined by formula E:



(E), or a tautomer or salt thereof,

wherein, R^1 and R^2 are both methyl, ethyl, or propyl; or alternatively, R^1 and R^2, together with the carbon atom to which they are attached, form cyclopropyl, cyclobutyl, cylclopentyl, or cyclohexyl; n is 0, 1, 2, or 3; and R^3 is halo, cyano, hydroxyl, amine, substituted amine, alkoxy, substituted alkoxy, aryloxy, substituted aryloxy, acyl, sulfonamide, ester, alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, or substituted heterocyclyl.

[0297] In some embodiments, the sweetness enhancer is a compound defined by formula F:



(F), or a tautomer or salt thereof,

or a salt or solvate thereof; wherein

A is an optionally substituted four, five, six, seven, or eight-membered azacyclic ring;

X is a covalent bond or $-NR^1-$;

R^1 is hydrogen or C1 to C6 alkyl; and

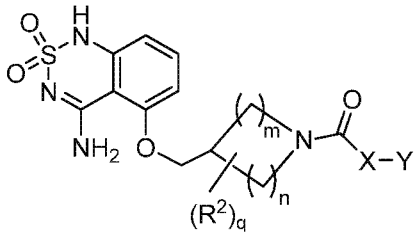
Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0298] In one embodiment of Formula (F), X is NH.

[0299] In one embodiment of Formula (F), X is a covalent bond.

[0300] In one embodiment of Formula (F), A is an optionally substituted five, six, or seven-membered azacyclic ring. In one embodiment of Formula (F), A is an optionally substituted six-membered azacyclic ring. In one embodiment of Formula (F), A is an optionally substituted piperidine.

[0301] In some embodiments, the sweetness enhancer is a compound defined by formula G:



(G), or a tautomer or salt thereof,

wherein,

m is 1, 2, 3, 4, 5, or 6;

n is 0, 1, 2, or 3; with the proviso that m+n is more than 1 and less than 7;

q is 0, 1, 2, 3, 4, 5, or 6; with the proviso that q is less than m+n;

X is a covalent bond or $-NR^1-$;

R^1 is hydrogen or C1 to C6 alkyl;

Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl; and

each R^2 is independently selected from the group consisting of alkyl, heteroalkyl, halo, hydroxyl, alkoxy, amino, alkylamino, cyano, nitro, haloalkyl, carboxylic acid, amide, ester, acyl, thiol, alkylthio, and sulfonamide.

[0302] In one embodiment of Formula (G), X is NH.

[0303] In one embodiment of Formula (G), X is a covalent bond.

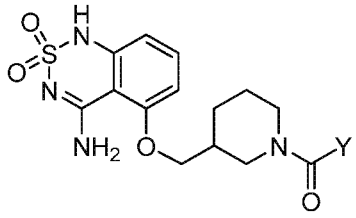
[0304] In one embodiment of Formula (G), m is 1, 2, 3, or 4; and n is 0, 1, or 2.

[0305] In one embodiment of Formula (G), q is 1, 2, or 3.

[0306] In one embodiment of Formula (G), q is 0.

[0307] In one embodiment of Formula (G), m is 4, and n is 0; or m is 3, and n is 1; or m and n are both 2.

[0308] In some embodiments, the sweetness enhancer is a compound defined by formula (H):

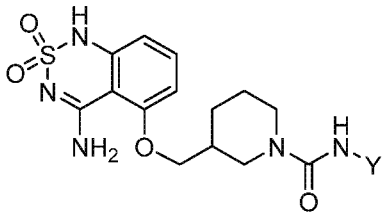


(H), or a tautomer or salt thereof,

wherein,

Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0309] In some embodiments, the sweetness enhancer is a compound defined by formula (J):

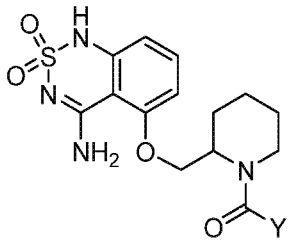


(J), or a tautomer or salt thereof,

wherein,

Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0310] In some embodiments, the sweetness enhancer is a compound defined by formula (K):

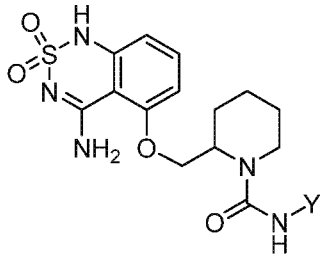


(K), or a tautomer or salt thereof,

wherein,

Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0311] In some embodiments, the sweetness enhancer is a compound defined by formula (A1):

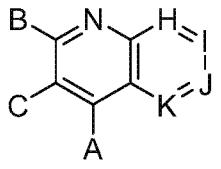


(A1), or a tautomer or salt thereof,

wherein,

Y is alkyl, substituted alkyl, heteroalkyl, substituted heteroalkyl, carbocyclyl, substituted carbocyclyl, heterocyclyl, substituted heterocyclyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, aralkyl, substituted aralkyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0312] In some embodiments, the sweetness enhancer is a compound defined by formula (B1):



(B1), or a tautomer or salt thereof,

wherein:

A is $-OR^1$, $-NR^1C(O)R^2$, $-NHOR^1$, $-NR^1R^2$, $-NR^1CO_2R^2$, $-NR^1C(O)NR^2R^3$, $-NR^1C(S)NR^2R^3$or $-NR^1C(=NH)NR^2R^3$;

B is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, $-OR^4$, $-S(O)_aR^4$, $-NR^4R^5$, $-C(O)NR^4R^5$, $-CO_2R^4$, $-NR^4CO_2R^5$, $-NR^4C(O)NR^5R^6$, $-NR^4C(S)NR^5R^6$, $-NR^4C(=NH)NR^5R^6$, $-SO_2NR^4R^5$, $-NR^4SO_2R^5$, $-NR^4SO_2NR^5R^6$, $-B(OR^4)(OR^5)$, $-P(O)(OR^4)(OR^5)$, or $-P(O)(R^4)(OR^5)$;

C is $-OR^7$,$-S(O)_bR^7$, SO_3R^7, $-C(O)NR^7R^8$, $-CO_2R^7$, $-NR^7CO_2R^8$, $-NR^7C(O)NR^8R^9$, $-NR^7C(=NH)NR^8R^9$, $-SO_2NR^7R^8$, $-NR^7SO_2R^8$, $-NR^7SO_2NR^8R^9$, $-B(OR^7)(OR^8)$, $-P(O)(OR^7)(OR^8)$, $-P(O)(R^7)(OR^8)$, or heteroaryl;

a and b are independently 0, 1 or 2; and

R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, and R^9 are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl; or alternatively, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^5 and R^6, R^7 and R^8, or R^8 and R^9, together with the atoms to which they are bonded, form a cycloheteroalkyl or substituted cycloheteroalkyl ring;

H is $-C(R^{21})-$ or -N-;

I is $-C(R^{22})$ or -N-;

J is $-C(R^{23})-$ or -N-;

K is $-C(R^{24})-$ or -N-;

R^{21} is hydrogen, alkyl, substituted alkyl, halo, -CN, $-OR^{25}$;

R^{22} is hydrogen, alkyl, substituted alkyl, halo, -CN, $-OR^{27}$;

R^{23} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, halo, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl ,-CN, -OR^{29}, -$S(O)_fR^{29}$, -$OC(O)R^{29}$, -$NR^{29}R^{30}$, -$C(O)NR^{29}R^{30}$, -CO_2R^{29}, -$SO_2NR^{29}R^{30}$, -$NR^{29}SO_2R^{30}$, -$B(OR^{29})(OR^{30})$, -$P(O)(OR^{29})(OR^{30})$ or -$P(O)(R^{29})(OR^{30})$;

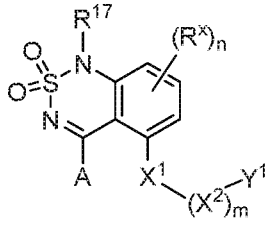
R^{24} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, halo, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -OR^{31}, -$S(O)_gR^{31}$, -$OC(O)R^{31}$, -$NR^{31}R^{32}$, -$C(O)NR^{31}R^{32}$, -$C(O)R^{31}$, -CO_2R^{31}, -$SO_2NR^{31}R^{32}$, -$NR^{31}SO_2R^{32}$, -$B(OR^{31})(OR^{32})$, -$P(O)(OR^{31})(OR^{32})$ or -$P(O)(R^{31})(OR^{32})$; or alternatively R^{23} and R^{24}, taken together with the atom to which they are attached, form a cycloalkyl, substituted cycloalkyl, cycloheteroalkyl, or substituted cycloheteroalkyl ring;

f and g are independently 0, 1 or 2; and

R^{25}, R^{27}, R^{29}, R^{30}, R^{31}, and R^{32} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, or substituted heteroarylalkyl; or alternatively R^{25} and R^{27}, R^{27} and R^{29}, R^{29} and R^{30}, R^{29} and R^{31}, or R^{31} and R^{32}, together with the atoms to which they are attached, form a cycloheteroalkyl or substituted cycloheteroalkyl ring;

with the proviso that at most, two of H, I, J and K are -N-.

[0313] In some embodiments, the sweetness enhancer is a compound defined by formula (C1):



(C1), or a tautomer or salt thereof,

wherein

A is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -OR^9, -NO_2, -$S(O)_eR^9$, -NOR^9, -$NHOR^9$, -NR^9COR^{10}, -NR^9R^{10},

-$CONR^9R^{10}$, -CO_2R^9 or -$NR^9CO_2R^{10}$;

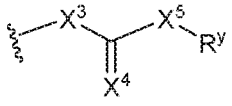
R^{17} is hydrogen, alkyl, substituted alkyl, arylalkyl, or substituted arylalkyl;

X^1 is $–CH_2–$, –O–, $–NR^9–$, –S–, –S(O)–, or $–S(O)_2–$;

X^2 is alkylene, substituted alkylene, heteroalkylene, or substituted heteroalkylene;

m is 0 or 1;

Y^1 is heteroaryl, substituted heteroaryl, cycloheteroalkyl, substituted cycloheteroalkyl, or


, or

;

X^3 and X^5 are independently a covalent bond, –O– or $–NR^9–$;

X^4 is O, NR^9, N-OR^9, or S;

R^x is halo, -NO_2, -CN, -OH, -NH_2, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl;

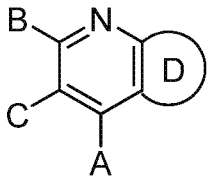
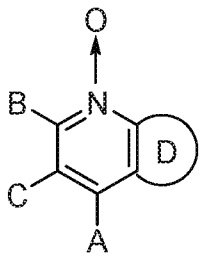
n is 0, 1, 2, or 3;

R^y is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl, -NR^9R^{10}; and

each R^9 and R^{10} is independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl;

with the proviso that when X^1 is –O– or –S–, and m is zero; then X^3 is not –O–.

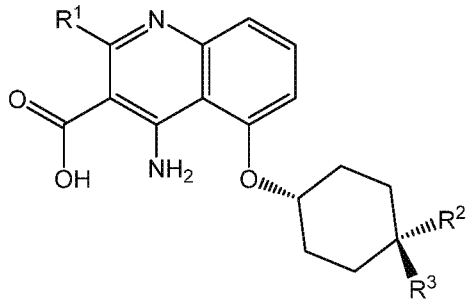
[0314] In some embodiments, the sweetness enhancer is a compound defined by formulae (D1) or (E1):


(D1) or

(E1), or a tautomer or salt thereof, wherein:

A is -OR^1, -$NR^1C(O)R^2$, -$NHOR^1$, -NR^1R^2, -$NR^1CO_2R^2$, -$NR^1C(O)NR^2R^3$, -$NR^1C(S)NR^2R^3$or -$NR^1C(=NH)NR^2R^3$; B is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl,

substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -OR^4, -$S(O)_aR^4$, -NR^4R^5, -$C(O)NR^4R^5$, -CO_2R^4, -$NR^4CO_2R^5$, -$NR^4C(O)NR^5R^6$, -$NR^4C(S)NR^5R^6$, -$NR^4C(=NH)NR^5R^6$, -$SO_2NR^4R^5$, -$NR^4SO_2R^5$, -$NR^4SO_2NR^5R^6$, -$B(OR^4)(OR^5)$, -$P(O)(OR^4)(OR^5)$, or -$P(O)(R^4)(OR^5)$; is -OR^7, -$S(O)_bR^7$, SO_3R^7, -$C(O)NR^7R^8$, -CO_2R^7, -$NR^7CO_2R^8$, -$NR^7C(O)NR^8R^9$, -$NR^7C(=NH)NR^8R^9$, -$SO_2NR^7R^8$, -$NR^7SO_2R^8$, -$NR^7SO_2NR^8R^9$, -$B(OR^7)(OR^8)$, -$P(O)(OR^7)(OR^8)$, -$P(O)(R^7)(OR^8)$, or heteroaryl (for example, tetrazole); D is an aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring wherein the ring is optionally fused to another aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl, or substituted cycloheteroalkyl ring; a and b are independently 0, 1 or 2; and R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, and R^9 are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl; or alternatively, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^5 and R^6, R^7 and R^8, or R^8 and R^9, together with the atoms to which they are bonded, form a cycloheteroalkyl or substituted cycloheteroalkyl ring.

[0315] In some embodiments, the sweetness enhancer is a compound defined by formula (F1):



(F1), or a salt or tautomer thereof, wherein:

R^1 may be hydrogen or C_{1-6} alkyl optionally substituted with C_{1-6} alkoxy or –OH;

R^2 may be selected from the group consisting of hydrogen, –OH, optionally substituted C_{1-6} alkoxy, C_{1-6} alkyl optionally substituted with C_{1-6} alkoxy;

R^3 may be selected from the group consisting of hydrogen, –OH, optionally substituted C_{1-6} alkyl, optionally substituted C_{3-7} carbocyclyl, optionally substituted C_{1-6} alkoxy, $-(CH_2)_nNHC(=O)R^4$, $-(CH_2)_nNR^5R^6$, and $-(CH_2)_nC(=O)NR^5R^6$;

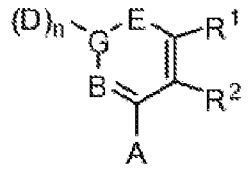
n may be 0, 1, 2 or 3;

R^4 may be selected from the group consisting of optionally substituted C_{3-7} carbocyclyl, optionally substituted aryl, optionally substituted 5-10 membered heteroaryl, optionally substituted 3-10 membered heterocyclyl and substituted C_{1-6} alkyl;

R^5 may be selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl, optionally substituted C_{3-7} carbocyclyl, optionally substituted aryl, and optionally substituted 5-10 membered heteroaryl; and

R^6 may be selected from the group consisting of hydrogen, substituted C_{1-6} alkyl, optionally substituted C_{3-7} carbocyclyl, optionally substituted aryl and optionally substituted 5-10 membered heteroaryl, with the proviso that when both R^2 and R^3 are hydrogen then R^1 is not methyl or $-CH_2OH$.

[0316] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (G1):



(G1)

or a salt, hydrate, solvate or N-oxide thereof wherein:

G forms a single bond with either D or E and a double bond with the other of D or E;

R1 is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, $-NO_2$, $-OR^3$, $-S(O)_aR^3$, $-NR^3R^4$,

$-CONR^3R^4$, $-CO_2R^3$, $-NR^3CO_2R^4$, $-NR^3CONR^4R^4$, $-NR^3CSNR^4R^5$ or $-NR^3C(=NH)NR^4R^5$,

$-SO_2NR^2R^3$, $-NR^2SO_2R^3$, $-NR^2SO_2NR^3R^4$, $-B(OR^2)(OR^3)$, $-P(O)(OR^2)(OR^3)$ or $-P(O)(R^2)(OR^3)$;

R^2 is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted

heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, - NO_2, -OR^6, -$S(O)_bR^6$, -NR^6R^7, -$CONR^6R^7$, - CO_2R^6, -$NR^6CO_2R^7$, - $NR^6CONR^7R^8$, -$NR^6CSNR^7R^8$ or --$NR^6C(=NH)NR^7R^8$, -$SO_2NR^5R^6$, -$NR^5SO_2R^6$, -NR^5SO^2 NR^6R^7, -$B(OR^5)(OR^6$, -$P(O)(OR^5)(OR^6)$, -$P(O)(R^5)(OR^6)$ or alternatively, R^1 and R^2 together with the atoms to which they are bonded form an aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring where the ring is optionally fused to another aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring;

with the proviso that R^1 and R^2 are not both hydrogen;

A is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -NO_2, -OR^9, -$S(O)_cR^9$, -NR^9R^{10}, NOR^9, -$CONR^9R^{10}$, -CO_2R^9, -$NR^9CO_2R^{10}$ --$NR^9CONR^{10}R^{11}$ --$NR^9CSNR^{10}R^{11}$ or --$NR^9C(=NH)NR^{10}R^{11}$

B is -N- or -$C(R^{12})$-;

R^{12} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -$NR^{13}R^{14}$, -CN, -OR^{13}, -$S(O)_dR^{13}$, CO_2R^{13} or --$CONR^{13}R^{14}$;

G is -C- or -$S(O)_2$;

provided that when G is -$S(O)_2$, G forms a single bond with E;

D is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, halo, chloro, fluoro, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -OR^{15}, -NOR^{15}, -$S(O)_eR^{15}$, -$NR^{15}R^{16}$, -NCN, -CO_2R^{15}, -$CONR^{15}R^{16}$ when the bond between D and G is a single bond;

D is =O, =S , =N-OR^{15}, =$NHNHR^{15}$ when G form a double bond with D;

n is O when G is -S(O)r and n is 1 when G is -C-;

E is -NR^{17}-, -N- or -$C(R^{18})$-;

provided that E is -NR^{17}- only when G forms a single bond with E;

R^{17} is alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl,

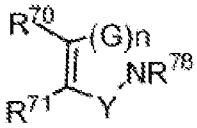
heteroarylalkyl, substituted heteroarylalkyl or $-CO_2R^{19}$;

R^{18} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, $-NR^{20}R^{21}$, -CN, $-OR^{20}$, $-S(O)_fR^{20}$, $-CO_2R^{20}$ or $-CONR^{20}R^{21}$;

a, b, e, d, e and f are independently 0, 1 or 2; and

R^3-R^{11}, R^{13}-R^{16}, R^{18}, R^{20} and R^{21} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^3 and R^4, R^4 and R^5, R^6 and R^7, R^7 and R^8, R^9 and R^{10}, R^{10} and R^{11}, R^{13} and R^{14}, R^{15} and R^{16} and R^{20} and R^{21} together with the atoms to which they are bonded form a cycloheteroalkyl or substituted cycloheteroalkyl ring.

[0317] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (H1):



(H1)

or a salt, solvate, hydrate or N-oxide thereof wherein:

each G is independently $-C(R^{77})(R^{78})-$, -C(O)-, $-NR^{77}-$ or $-S(O)_2-$;

n is 1, 2 or 3;

provided that when n is greater than one then only one G is -C(O)-, -C(S), $-S(O)_2$ or Y is -C(O)-, -C(S) or $-S(O)_2$;

R^{70} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, $-NO_2$, $-OR^{72}$, $-S(O)_aR^{72}$, $-NR^{72}R^{73}$, $-CONR^{72}R^{73}$, $-CO_2R^{72}$ $-NR^{72}CO_2R^{73}$ $-NR^{72}CONR^{73}R^{74}$ $-NR^{72}CSNR^{73}R^{74}$ or-$NR^{72}C(=NH)NR^{73}R^{74}$, $-SO_2NR^{72}R^{73}$, $-NR^{72}SO_2R^{73}$, $-NR^{72}SO_2NR^{73}R^{74}$, $-B(OR^{72})(OR^{73})$, $-P(O)(OR^{72})(OR^{73})$ or $-P(O)(R^{72})(OR^{73})$;

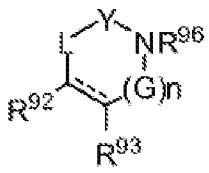
R^{71} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted

heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -NO_2, -OR^{74}, -$S(O)_bR^{74}$, -$NR^{74}R^{75}$, -$CONR^{74}R^{75}$ -CO_2R^{74} -$NR^{74}CO_2R^{75}$ -NR , 74$CONR^{75}R^{76}$ -$NR^{74}CSNR^{75}R^{76}$ or-$NR^{74}C(=NH)NR^{75}R^{76}$, -$SO_2NR^{74}R^{75}$, -$NR^{74}SO_2R^{75}$, -$NR^{74}SO_2NR^{75}R^{76}$, -$B(OR^{74})(OR^{75})$, -$P(O)(OR^{74})(OR^{75})$, -$P(O)(R^{74})(OR^{75})$ or alternatively, R^{71} and R^{72} together with the atoms to which they are bonded form an aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring where the ring is optionally fused to another aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring;

a and b are independently 0, 1 or 2;

R^{72}-R^{76} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^{72} and R^{73}, R^{73} and R^{74}, R^{74} and R^{75} and R^{75} and R^{76} together with the atoms to which they are bonded form a cycloheteroalkyl or substituted cycloheteroalkyl ring; and R^{77}-R^{78} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^{77} and R^{78}, together with the atoms to which they are bonded form a cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring.

[0318] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (J1):



(J1)

or a salt, solvate, hydrate or N-oxide thereof wherein:

each G is independently -$C(R^{94})(R^{95})$-, -C(O)-, -NR^{94}- or -$S(O)_2$-;

n is 1, 2 or 3;

provided that when n is greater than one then only one G is -C(O)-, -$S(O)_2$- or-NR^{94}-;

Y is -C(O)-, -C(S)- or -$S(O)_2$;

L is -C(R^{104})(R^{105})-, -O-, or -NR^{104}-;

R^{92} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -NO_2, -OR^{98}, -$S(O)_yR^{98}$, -$NR^{98}R^{99}$, -$CONR^{98}R^{99}$ -CO_2R^{99} , -$NR^{98}CO_2R^{99}$ -$NR^{98}CONR^{99}R^{100}$ -$NR^{98}CSNR^{99}R^{100}$ or-$NR^{98}C(=NH)NR^{99}R^{100}$, -$SO_2NR^{98}R^{99}$, -$NR^{98}SO_2R^{99}$, -$NR^{98}SO_2NR^{99}R^{100}$, -$B(OR^{98})(OR^{99})$, -$P(O)(OR^{98})(OR^{99})$ or -$P(O)(R^{98})(OR^{99})$;

R^{93} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl, substituted heteroarylalkyl, -CN, -NO_2, -OR^{100}, -$S(O)_yR^{101}$, -$NR^{101}R^{102}$ -$CONR^{101}R^{102}$ –CO_2R^{101} -$NR^{101}CO_2R^{102}$ -$NR^{101}CONR^{102}R^{103}$ -$NR^{101}CSNR^{102}R^{103}$ or-$NR^{101}C(=NH)NR^{102}R^{103}$, -$SO_2NR^{101}R^{102}$, -$NR^{101}SO_2R^{102}$, -$NR^{101}SO_2NR^{102}R^{103}$, -$B(OR^{101})(OR^{102})$, -$P(O)(OR^{101})(OR^{102})$, -$P(O)(R^{101})(OR^{102})$ or alternatively, R^{92} and R^{93} together with the atoms to which they are bonded form an aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring where the ring is optionally fused to another aryl, substituted aryl, heteroaryl, substituted heteroaryl, cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring;

x and y are independently, 0, 1 or 2;

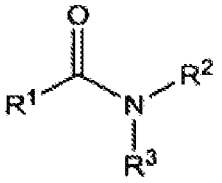
R^{98}-R^{103} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^{98} and R^{99}, R^{99} and R^{100}, R^{101} and R^{102} and R^{101} and R^{102} together with the atoms to which they are bonded form a cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring;

R^{94}-R^{95} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^{94} and R^{95}, together with the atoms to which they are bonded form a cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring;

R^{96} is hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl; and

R^{104}-R^{105} are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, acyl, substituted acyl, heteroalkyl, substituted heteroalkyl, heteroaryl, substituted heteroaryl, heteroarylalkyl or substituted heteroarylalkyl or alternatively, R^{104} and R^{105}, together with the atoms to which they are bonded form a cycloalkyl, substituted cycloalkyl, cycloheteroalkyl or substituted cycloheteroalkyl ring.

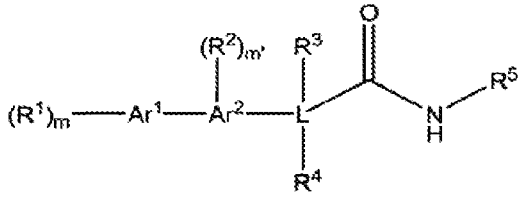
[0319] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (K1):



(K1), or a salt thereof, wherein:

R^1 comprises an organic or hydrocarbon residue having at least three carbon atoms and optionally one or more heteroatoms independently selected from oxygen, nitrogen, sulfur, halogens, or phosphorus; and wherein optionally one of R^2 and R^3 is H, and wherein at least one of the other of R^2 and R^3 comprises an organic or hydrocarbon residue having at least three carbon atoms and optionally one or more heteroatoms independently selected from oxygen, nitrogen, sulfur, halogens, or phosphorus.

[0320] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (A2):



(A2), or a salt thereof, wherein:

Ar^1, Ar^2, L, R^1, R^2, R^3, R^4, R^5, m and m', some of which are optional, can be and are independently further defined in various ways, as is further detailed below in the detailed description of the invention. It is however required that for all the compounds of Formula (I), L is either a carbon atom or a nitrogen atom, the Ar^1 and Ar^2 groups are independently selected

from aromatic ring groups, *i.e.* aryl or heteroaryl ring groups, and that R^5 is an organic group.

In some embodiments of formula (A2):

i) Ar^1 and Ar^2 are independently selected from monocyclic aryl, fused bicyclic aryl, monocyclic heteroaryl, or fused bicyclic heteroaryl rings;

ii) m is selected from the integers 0, 1, 2, 3, 4, or 5;

iii) m' is selected from the integers 0, 1, 2, 3, or 4;

iv) each R^1 and R^2 is independently selected from the group consisting of an OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical;

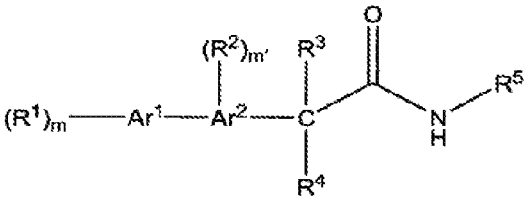
v) L is a carbon or nitrogen atom;

vi) R^3 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

vii) R^4 is absent, or hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

viii) R^5 is a C_1-C_{14} organic radical comprising a normal or branched alkyl or cycloalkyl, wherein the normal or branched alkyl or cycloalkyl optionally comprises one to four substituents independently selected from OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical.

[0321] In some embodiments of formula (A2), L is a carbon atom. Some embodiments of formula (A2) have the structure:



(A2), or salt thereof, wherein:

i) Ar^1 and Ar^2 are independently selected from a phenyl, or monocyclic heteroaryl rings;

ii) m and m' are independently selected from the integers 0, 1, or 2

iii) each R^1 and R^2 is independently selected from the group consisting of OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_4 organic radical;

iv) R^3 and R^4 are independently selected from hydrogen and a C_1-C_4 alkyl,

v) R^5 is a C_3-C_{10} branched alkyl optionally comprising one, two, or three substituents independently selected from OH, NH_2, a halogen, and a C_1-C_6 organic radical.

[0322] In some embodiments of formula (A2):

i) Ar^1 and Ar^2 are independently selected from monocyclic aryl, fused bicyclic aryl, monocyclic heteroaryl, or fused bicyclic heteroaryl rings;

ii) m is selected from the integers 0, 1 , 2, 3, 4, or 5;

iii) m' is selected from the integers 0, 1 , 2, 3, or 4;

iv) each R^1 and R^2 is independently selected from the group consisting of an OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical;

v) L is a carbon atom;

vi) R^3 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

vii) R^4 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical; and

viii) R^5 is a C_1-C_{14} organic radical comprising a normal or branched alkyl or cycloalkyl, wherein the normal or branched alkyl or cycloalkyl optionally comprises one to four substituents independently selected from OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical.

[0323] In some embodiments of formula (A2):

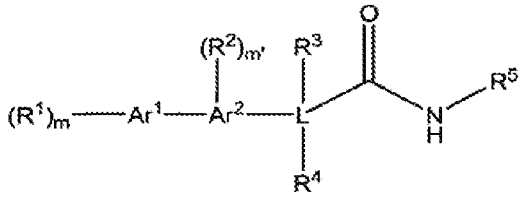
a) Ar^1 and Ar^2 are independently selected phenyl or 5 or 6 membered monocyclic heteroaryl rings,

b) each R^1 and R^2 is independently selected from the group consisting of . hydroxy, fluoro, chloro, NH_2, $NHCH_3$, $N(CH_3)_2$, CN, $OC(O)CH_3$, SCH_3, $S(O)CH_3$, $S(O)_2CH_3$, $S(O)_2NHCH_3$, SC_2H methyl, ethyl, propyl, isopropyl, vinyl, allyl, CN, CH_2OH, CH_2OCH_3, $CH_2OCH_2CH_3$, C(O)H, $C(O)CH_3$, methoxy, ethoxy, and isopropoxy groups,

c) R^3 and R^4 are methyl, and

d) R^5 is a C_3-C_{10} branched alkyl.

[0324] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (B2):



(B2)

wherein Ar^1, Ar^2, L, R^1, R^2, R^3, R^4, R^5, m and m', some of which are optional, can be and are independently further defined in various ways, as is further detailed below. It is however

required that for all the compounds of Formula (I), L is either a carbon atom or a nitrogen atom, the Ar^1 and Ar^2 groups are independently selected from aromatic ring groups, *i.e.* aryl or heteroaryl ring groups, and that R^5 is an organic group.

[0325] In some embodiments of formula (B2):

i) Ar^1 and Ar^2 are independently selected from monocyclic aryl, fused bicyclic aryl, monocyclic heteroaryl, or fused bicyclic heteroaryl rings;

ii) m is selected from the integers 0, 1, 2, 3, 4, or 5;

iii) m' is selected from the integers 0, 1, 2, 3, or 4;

iv) each R^1 and R^2 is independently selected from the group consisting of an OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical;

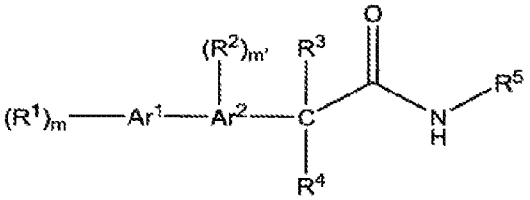
v) L is a carbon or nitrogen atom;

vi) R^3 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

vii) R^4 is absent, or hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

viii) R^5 is a C_1-C_{14} organic radical comprising a normal or branched alkyl or cycloalkyl, wherein the normal or branched alkyl or cycloalkyl optionally comprises one to four substituents independently selected from OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical.

[0326] In some embodiments of the compounds of Formula (B2), L is a carbon atom. In some embodiments of the compounds of Formula (B2) have the structure:



, or a salt thereof, wherein:

i) Ar^1 and Ar^2 are independently selected from a phenyl, or monocyclic heteroaryl rings;

ii) m and m' are independently selected from the integers 0, 1, or 2

iii) each R^1 and R^2 is independently selected from the group consisting of OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_4 organic radical;

iv) R^3 and R^4 are independently selected from hydrogen and a C_1-C_4 alkyl,

v) R^5 is a C_3-C_{10} branched alkyl optionally comprising one, two, or three substituents

independently selected from OH, NH_2, a halogen, and a C_1-C_6 organic radical;

[0327] In some embodiments of the compounds of Formula (B2):

i) Ar^1 and Ar^2 are independently selected from monocyclic aryl, fused bicyclic aryl, monocyclic heteroaryl, or fused bicyclic heteroaryl rings;

ii) m is selected from the integers 0, 1 , 2, 3, 4, or 5;

iii) m' is selected from the integers 0, 1 , 2, 3, or 4;

iv) each R^1 and R^2 is independently selected from the group consisting of an OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical;

v) L is a carbon atom;

vi) R^3 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical;

vii) R^4 is hydrogen, oxygen, hydroxy, halogen, or a C_1-C_6 organic radical; and

viii) R^5 is a C_1-C_{14} organic radical comprising a normal or branched alkyl or cycloalkyl, wherein the normal or branched alkyl or cycloalkyl optionally comprises one to four substituents independently selected from OH, NH_2, NO_2, SH, SO_3H, PO_3H, halogen, and a C_1-C_6 organic radical;

[0328] In some embodiments of the compounds of Formula (B2):

a) Ar^1 and Ar^2 are independently selected phenyl or 5 or 6 membered monocyclic heteroaryl rings,

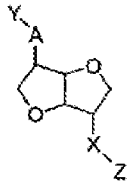
b) each R1 and R2 is independently selected from the group consisting of . hydroxy, fluoro, chloro, NH_2, $NHCH_3$, $N(CH_3)_2$, CN, $OC(O)CH_3$, SCH_3, $S(O)CH_3$, $S(O)_2CH_3$, $S(O)_2NHCH_3$, SC_2H methyl, ethyl, propyl, isopropyl, vinyl, allyl, CN, CH_2OH, CH_2OCH_3, $CH_2OCH_2CH_3$, C(O)H, $C(O)CH_3$, methoxy, ethoxy, and isopropoxy groups,

c) R^3 and R^4 are methyl, and

d) R^5 is a C_3-C_{10} branched alkyl.

[0329] In some embodiments, the flavoring agents and/or flavor enhancers is 4-amino-5,6- dimethylthieno[2,3-d]pyrimidine-2(1 H)-one or salts, solvates, and/or esters thereof.

[0330] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (C2):



(C2), or a salt, or the salt, solvate, N-oxide, and/or ester thereof, wherein:

A is aryl, heteroaryl, or a covalent bond;

Y is hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylnyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl, heteroaryl, substituted heteroaryl, heterocyclyl, substituted heterocyclyl, heteroarylalkyl, substituted heteroarylalkyl, heterocyclylalkyl, substituted heterocyclylalkyl, carbocyclyl, substituted carbocyclyl, acyl, halo, -CN, $-NO_2$, $-OR^1$, $-S(O)R^1$ $-S(O)2R^1$,$-OC(O)R^1$ $-N(R^1)C(O)R^2$, $-NR^1R^2$,$-C(O)NR^1R^2$,$-C(O)OR^1$, $-S(O)_2NR^1R^2$, $-COR^1$-$N(R^1)S(O)_2R^2$, $-SR^1$-$C(R^1R^2R^6)$, $-C(S)$-R^1-$C(=NR^2)$-R^1-$N(R^1)$-$C(=N$-$OR^2)R^6$, $N(R^1)C(S)NR^2R^6$ $-C(=N$-$OR^1)R^2$, $-C(=NR^1)$-NR^2R^6 $-N(R^1)C(=NR^2)NR^6R^7$,$-N(R^1)C(S)R^2$, $-N(R^1)$-$C(O)$-$C(O)R^2$, $-C(S)$-NR^1R^2, $-N(R^1)C(=NR^2)0R^6$ $-C(=NR^1)O$-NR^2R^6, $-N(R^1)N(R^2)C(O)OR^6$,$-N(R^1)C(O)OR^2$, $-N(R^1)C(O)NR^2R^6$,$-N(R^1)$-$C(O)$-$C(O)$-NR^2R^6, $-C(O)$-$C(O)$-NR^1R^2, $-P(O)(OR^1)(OR^2)$, $-P(O)(OR^1)(R^2)$, or $-P(O)R^1R^2$;

X is -O-, -S-, -S(O)-, $-S(O)_2$-, $-C(R^3R^4)$-, -C(O)-, -C(S)-, $-C(=NR^3)$-, -C(O)O-, $-N(R^3)$-, $-OC(O)$-, $-N(R^3)C(O)$-, $-C(O)N(R^3)$-, $-N(R^3)$-$C(=N$-$OR^4)$-, $-C(=N$-OR^3 -, $-C(=NR^3)$-NR^4-, $-N(R^3)C(S)N(R^4)$-R^5 $-N(R^3)C(O)N(R^4)$-R^5 $-N(R^3)C(=NR^4$ -, $-N(R^3)C(S)$-, $-N(R^3)$-C(O) C(O)--C(S)-$N(R^3)$-, $-N(R^3)S(O)_2$-, $-S(O)_2$-$N(R^3$ -, $-N(R^3)C(=NR^4)O$-, $-C(=NR^4)0$-$N(R^3)$ -, $-N(R^3)$-$C(=NR^4)$-$N(R^5)$-, $-N(R^3)N(R^4)C(O)O$-. $-N(R^3)C(O)O$-, $-N(R^3)C(O)N(R^4)$-, $-N(R^3)$-$C(O)$-$C(O)$-NR^4-, $-C(O)$-$C(O)$-NR^4-, $-P(O)(OR^3)$ -, or $-P(O)R^3$-;

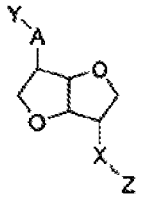
Z is alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylnyl, beteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl, heteroaryl, substituted heteroaryl, heterocyclyl, substituted beterocyclyl, heteroarylalkyl, substituted heteroarylalkyl, heterocyclylalkyl, substituted heterocyclylalkyl, carbocyclyl, or substituted carbocyclyl;

R^1, R^2, R^3, R^4, R^5, R^6, and R^7 are each independently hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylnyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl,

heteroaryl, substituted heteroaryl, heterocyclyl, substituted heterocyclyl, carbocyclyl, substituted carbocyclyl, heteroarylalkyl, or substituted heteroarylalkyl; and

with the following provisos: (a) when A is triazole or tetrazole; then -X-Z is not -O-alkyl, -O-acyl, or sulfonamido; (b) when A is tetrazole, and Z is cyclohexyl; then X is not - NH-C(O)-, -NH-C(O)-NH-; and (e) when A is a covalent bond, then Y is not hydrogen.

[0331] In some embodiments, the flavoring agents and/or flavor enhancers are selected from a compound defined by formula (D2):



(D2), or the salt, solvate, N-oxide, and/or ester thereof, wherein:

A is aryl, heteroaryl, or a covalent bond;

Y is hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylnyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl, heteroaryl, substituted heteroaryl, hctcrocyclyl, substituted heterocyclyl, heteroarylalkyl, substituted heteroarylalkyl, heterocyclylalkyl, substituted heterocyclylalkyl, carbocyclyl, substituted carbocyclyl, acyl, halo, -CN, -NO_2, -OR^1, -$S(O)R^1$ -$S(O)_2R^1$ -$OC(O)R^1$ -$N(R^1)C(O)R^2$, -NR^1R^2, -$C(O)NR^1R^2$, -$C(O)OR^1$ -$S(O)_2NR^1R^2$, -COR^1,-$N(R^1)S(O)_2R^2$, -SR^1,-$C(R^1R^2R^6)$, -C(S)-R^1 -$C(=NR^2)$-R^1, -$N(R^1)$-C(=N-OR 2)R^6, -$N(R^1)C(S)NR^2R^6$ -$C(=N\text{-}OR^1)R^2$, -$C(=NR^1)$-NR^2R^6, -$N(R^1)C(=NR^2)NR^6$R7, -$N(R^1)C(S)R^2$, -$N(R^1)$-C(O)-$C(O)R^2$,-C(S)-NR^1R^2, -$N(R^1)C(=NR^2)OR^6$-$C(=NR^1)$O-NR^2R^6, -$N(R^1)N(R^2)C(O)OR^6$, -$N(R^1)C(O)OR^2$ -$N(R^1)C(O)NR^2R^6$ -$N(R^1$)-C(O)-C(O)-NR^2R^6 -C(O)-C(O)-NR^1R^2 -$P(O)(OR^1)(OR^2)$,-$P(O)(OR^1)(R^2)$,or -$P(O)R^1R^2$;

X is -O-, -S-, -S(O)-, -$S(O)_2$-, -$C(R^3R^4)$-, -C(O)-, -C(S)-, -$C(=NR^3)$-, -C(O)O-, -$N(R^3)$-, -$OC(O)$-, -$N(R^3)C(O)$-, -C(O)N(R 3 -, -$N(R^3)$-C(=N-OR 4)-, -C(=N- O R 3 -, -$C(=NR^3)$-NR^4-, -$N(R^3)C(S)N(R^4)$-R^5, -$N(R^3)C(O)N(R^4)$-R^5, -$N(R^3)C(=NR^4)$-, -$N(R^3)C(S)$-, -$N(R^3)$-C(O)-C(O)-, -C(S)-$N(R^3)$-, -$N(R^3)S(O)_2$-, -S(O)2-$N(R^3)$-, -$N(R^3)C(=NR^4)O$-, -$C(=NR^4)$ O-$N(R^3)$-, -$N(R^3)$-$C(=NR^4)$-$N(R^5)$-, -$N(R^3)N(R^4)C(O)O$-, -$N(R^3)C(O)O$-, -$N(R^3)$C:(O)N(R^4 -, -$N(R^3)$-C(O)-C(O)-NR^4-, -C(O)-C(O)-NR^4-, -$P(O)(OR^3)$-, or -$P(O)R^3$;

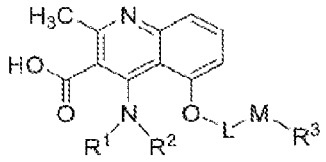
Z is alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylriyl,

heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl, heteroaryl, substituted heteroaryl, heterocyclyl, substituted heterocyclyl, heteroarylalkyl, substituted heteroarylalkyl, heterocyclylalkyl, substituted heterocyclylalkyl, carbocyclyl, or substituted carbocyclyl;

R^1, R^2, R^3, R^4, R^5, R^6, and R^7 are each independently hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkylnyl, heteroalkyl, substituted heteroalkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, arylalkenyl, substituted arylalkenyl, heteroaryl, substituted heteroaryl, heterocyclyl, substituted heterocyclyl, carbocyclyl, substituted carbocyclyl, heteroarylalkyl, or substituted heteroarylalkyl.

[0332] In some embodiments, the sweetness enhancer is a compound selected from 5-(neopentyloxy)-1H-benzo[c][1,2,6]thiadiazin-4-amino-2,2-dioxide; 3-(4-amino-2,2-dioxide-1H-benzo[c][l,2,6]thiadiazin-5-yloxy)-2' ,2'-dimethyl-N-propylpropanamide; and salts and/or solvates thereof.

[0333] In some embodiments, the sweetness enhancers are selected from a compound defined by formula (E2):



(E2), or a salt, solvate, and/or prodrug thereof; wherein:

R^1 and R^2 are independently hydrogen or C_1 to C_6 alkyl;

L is C_1 to C_{12} alkylene or substituted C_1 to C_{12} alkylene;

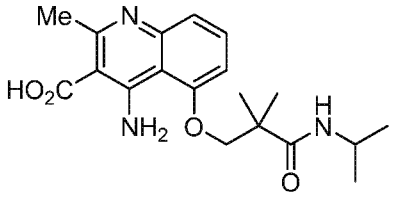
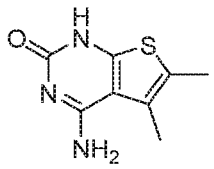
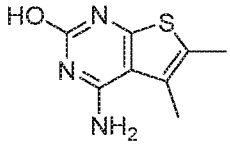
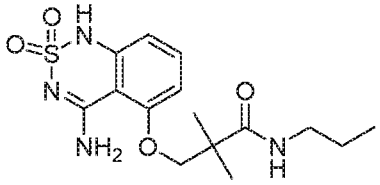
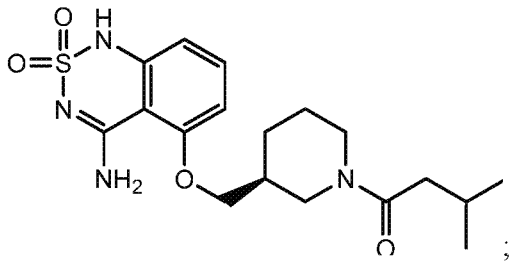
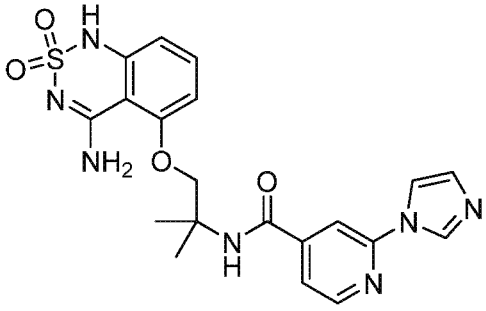
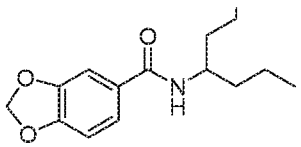
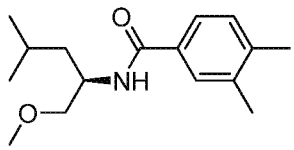
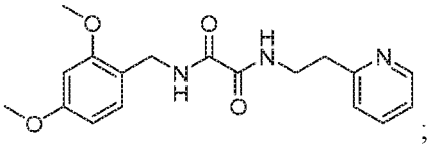
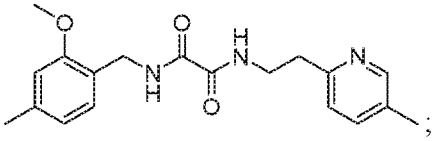
M is $–NR^4$-C(O)- or -C(O)-NR^4-;

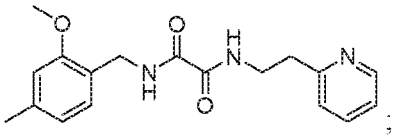
R^4 is hydrogen or C_1 to C_6 alkyl; or alternatively, when M is -NR^4-C(O)-, -R^4 and one or more atoms of L, together with the nitrogen to which they are attached, form a 5- to 8-membered heterocyclic ring containing one to three heteroatoms selected from nitrogen, oxygen, and sulfur; and

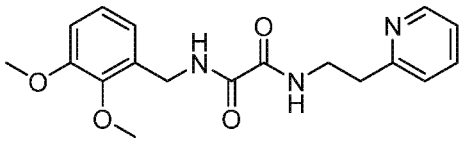
R^3 is C_1 to C_{12} alkyl, substituted C_1 to C_{12} alkyl, 5- to 8-membered heterocyclyl, or substituted 5- to 8-membered heterocyclyl; or alternatively, when M is -C(O)-NR^4, -R^4 and one or more atoms of R^3, together with the nitrogen to which they are attached, form a 5- to 8-membered heterocyclic ring containing one to three heteroatoms selected from nitrogen, oxygen, and sulfur.

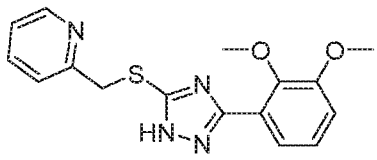
[0334] In some embodiments, the sweetness enhancer is present at an amount from about 0.001 ppm to 800 ppm. Thus, in some alternatives, the amount of sweetness enhancer is 0.001, 0.01, 0.1, 1, 10, 50, 100, 200, 300, 400, 500, 600, 700, or 800 ppm or a value that is within a range defined by any two of the aforementioned values.

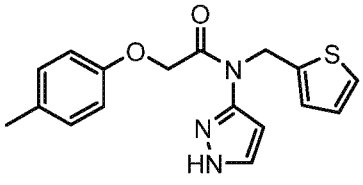
[0335] In some embodiments, compounds as disclosed and described herein, individually or in combination, can be used in combination with one or more compounds selected from:


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; and salts thereof.

Methods of Preparation

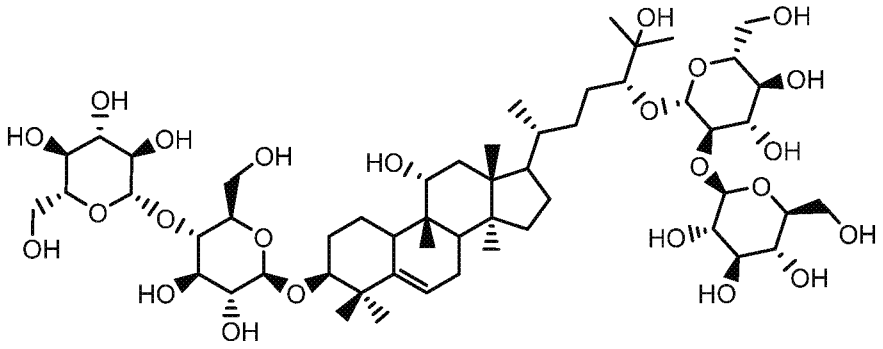
[0336] The compounds disclosed herein may be synthesized or isolated by methods described below, or by modification of these methods. Ways of modifying the methodology include, among others, temperature, solvent, reagents etc., known to those skilled in the art. The methods shown and described herein are illustrative only and are not intended, nor are they to be construed, to limit the scope of the claims in any manner whatsoever. Those skilled in the art will be able to recognize modifications of the disclosed methods and to devise alternate routes based on the disclosures herein; all such modifications and alternate routes are within the scope of the claims.

[0337] In some embodiments, compounds disclosed herein may be obtained by isolation from *Siraitia grosvenorii*. In some such embodiments, an extract obtained from *Siraitia grosvenorii* may be fractionated using a suitable purification technique. In some embodiments, the extract is fractionated using HPLC and the appropriate fraction is collected to obtain the desired compound in isolated and purified form.

[0338] In other embodiments, compound dislosed herein may be obtained by enzymatic modification of a compound isolated from *Siraitia grosvenorii*. For example, in some embodiments, a compound isolated from *Siraitia grosvenorii* is treated with one or more enzymes (e.g., a carbohydrase) to obtain the desired compounds. The starting compound isolated from *Siraitia grosvenorii* can include, but are not limited to, Mogroside V, Mogroside III_E, Siamenoside I, Mogroside VI isomer, Mogroside II_A, Mogroside IV_E, or Mogroside IV_A. Enzymes suitable for use to generate compounds described herein can include, but are not limited to, a pectinase, a β-galactosidase (e.g., Aromase), a cellulase (e.g., Celluclast), a clyclomatlodextrin glucanotransferase (e.g., Toruzyme), an invertase, a glucostransferase (e.g.,

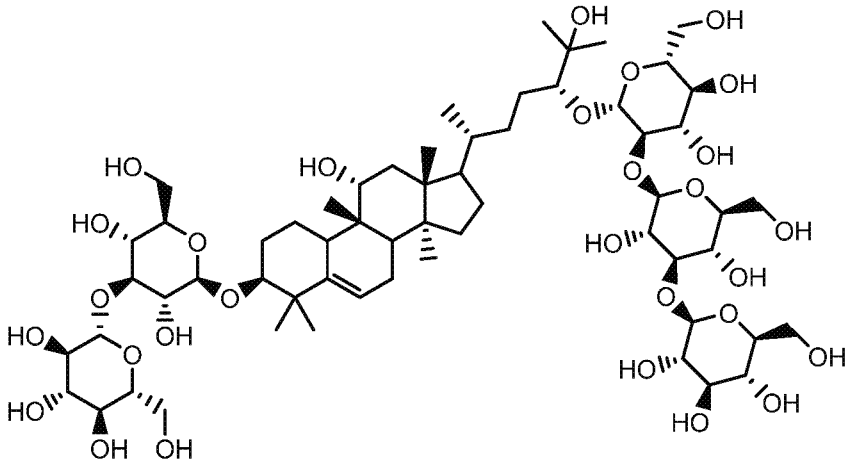
UGT76G1), a dextransucrase, a lactase, an arabanse, a xylanase, a hemicellulose, and an amylase.

[0339] Some embodiments provide a method of making Compound 1,



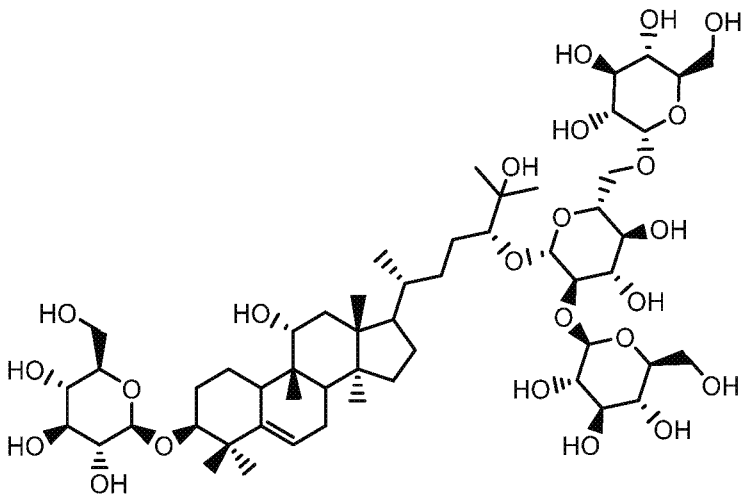
(1) comprising fractionating an extract of *Siraitia grosvenorii* on an HPLC column and collecting an eluted fraction comprising Compound 1.

[0340] Some embodiments provide a method of making Compound 18,



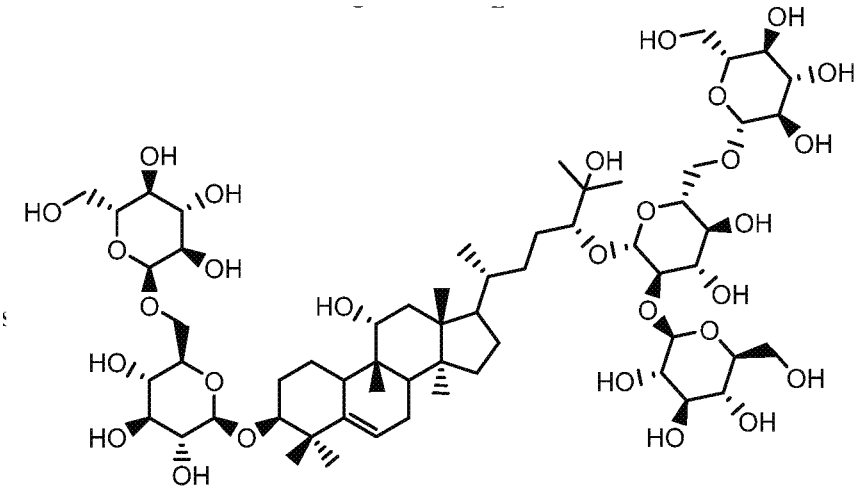
(18) comprising treating Mogroside III_E with the glucose transferase enzyme UGT76G1.

[0341] Some embodiments provide methods of making a compound of Compound 3,



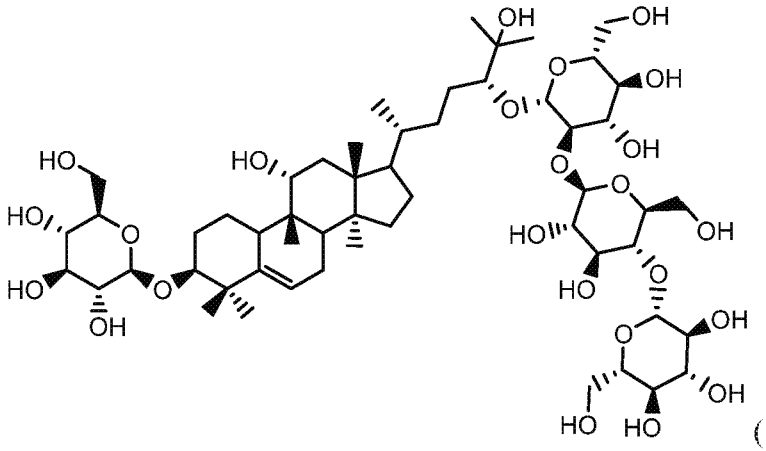
(**3**), comprising treating mogroside III_E with cyclomaltodextrin glucanotransferase in the presence of starch.

[0342] Some embodiments provide methods of making a compound of Compound 12,



(**12**), comprising treating mogroside VI with invertase from bakers yeast.

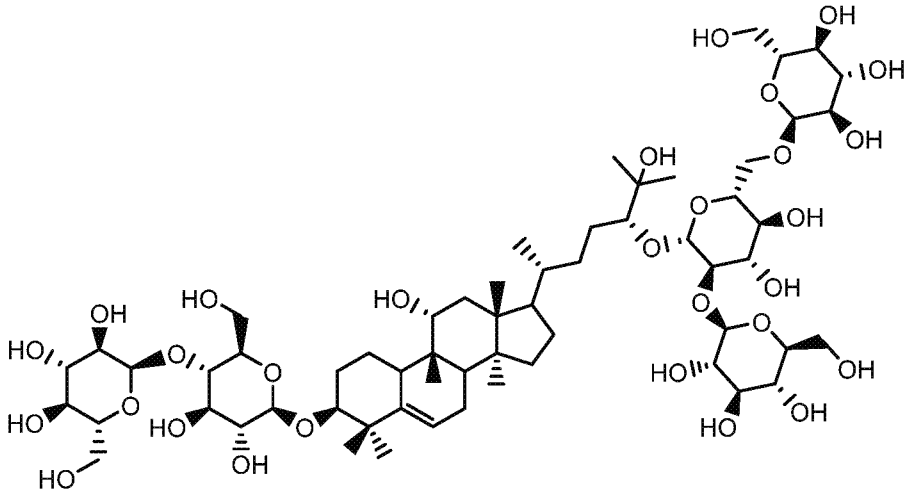
[0343] Some embodiments provide methods of making a compound of Compound 13,



(13),

comprising treating mogroside III_E with celluclast in the presence of alpha lactose.

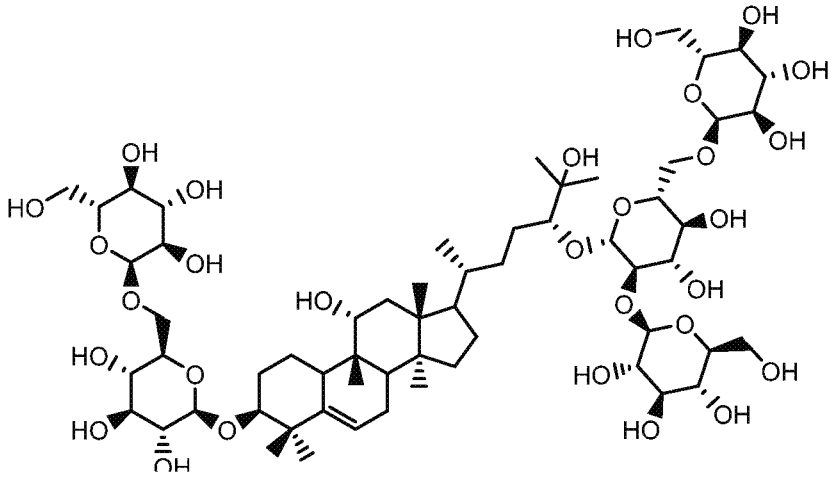
[0344] Some embodiments provide methods of making a compound of Compound 5,



(5),

comprising treating mogroside III_E withcyclomaltodextrin glucanotransferase in the presence of starch.

[0345] Some embodiments provide methods of making a compound of Compound 4,

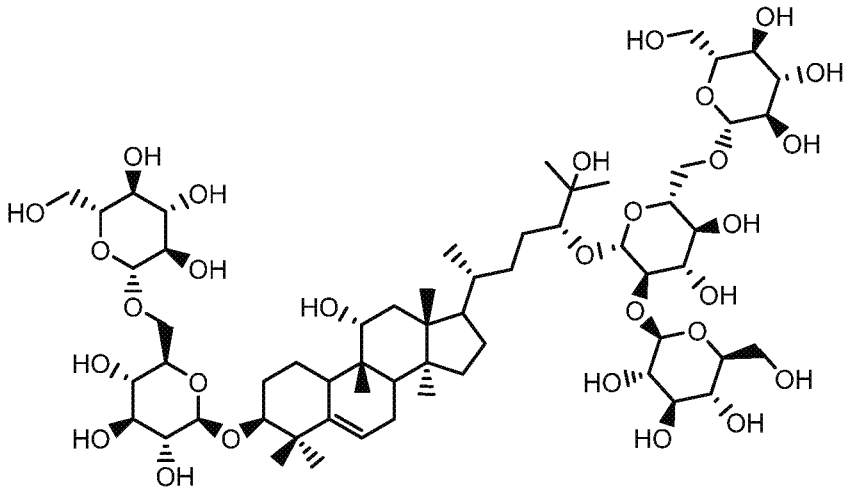


(4),

comprising treating mogroside III_E with cyclomaltodextrin glucanotransferase in the presence of starch.

EXAMPLES

Example 1: Isolation of Mogroside V

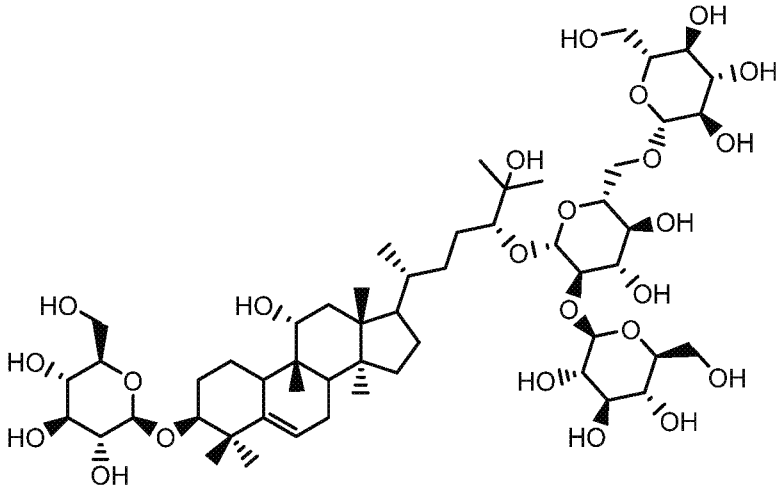


[0346] A powdered extract of *Siraitia grosvenorii* (Fructus momordicae extract, 50% mogroside, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. Samples of about 1.00 g were carefully weighed and dissolved in 7.0 mL of water and split into 2 equal injections. A total of 60 injections were run in this manner with a combined weight of 30.0 g of the *Fructus momordicae* extract. Purifications were done on a Waters Auto-purification system using Atlantis T3 C_{18} column (5 X 10 cm) with an ACN/water gradient. The method was t = 0 min., 1 %, 50 mL/min → t = 0.75 min., 1%, 100 mL/min; t = 2.00 min., 1%, 100 mL/min; t =

2.10 min., 10%, 100 mL/min; t = 30.1 min., 30%, 100 mL/min; t = 30.2 min., 95%, 100 mL/min; t = 35.2 min, 95%, 100 mL/min; t = 35.3 min., 1%, 100 mL/min; t = 42.3 min., 1%, 100 mL/min by collecting from 20.0 min. to 30.8 min. (36 fractions, 30 mL each). The desired compound was eluted in fractions 16 and 17. These FractionFractions were pooled and removed the solvent by rotary evaporation or on the Genevac HT12/HT24. The dried pooled sample was re-suspended in 15 mL of water and dried it again on the Genevac HT12/HT24 followed by lyophilization for about 2 days to give 8.15g of pure Mogroside V as a white crystalline solid with ≥95% purity.

[0347] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.48 (d, J = 7.8 Hz, 2H, 6-H & G3-1-H), 5.19 (d, J = 7.7 Hz, 1H, G1-1H), 4.93 (d, J = 8.0 Hz, 2H, G2 & G4-1-H), 4.89 (d, J = 7.6 Hz, 1H, G5-1-H), 3.79 – 3.74 (m, 1H, 24-H), 3.69 (brs, 1H, 3-H), 1.53 (s, 3H, 29-Me), 1.46 (s, 3H, 27-Me), 1.34 (s, 6H, 26 and 28-Me), 1.09 (d, J = 7.4 Hz, 3H, 21-Me), 1.07 (s, 3H, 19-Me), 0.92 (s, 6H, 18 & 30-Me): Exchangeable protons identified by D_2O exchange in pyridine-d_5 sample. ESIMS 1285.86 $(M-H)^-$.

Example 2: Isolation and enzymatic production of Siamenoside I



[0348] **Isolation:** 100 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 200 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42

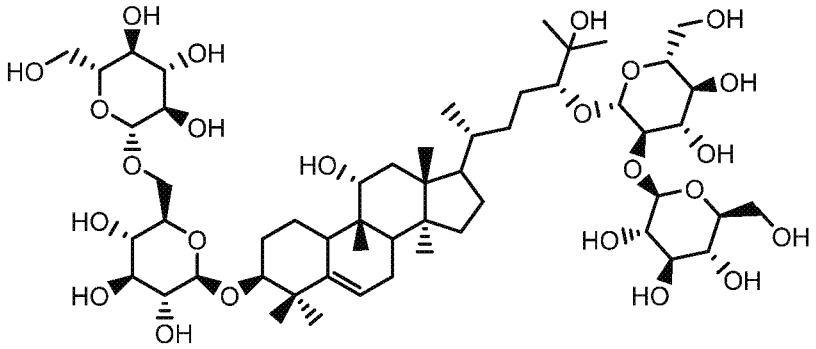
minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 21 along with other isomers. The pooled Fraction 21 (3.3g) was further fractionated in 47 runs on fluoro-phenyl HPLC column (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 10 mL of water and lyophilized to get 2.14 g of fluffy white solid with 95% purity.

[0349] **Enzyme hydrolysis:** To a 250mL erlenmeyer flask, 2g of mogroside V, 100mL of 0.1 M sodium acetate buffer pH5.0 and 1mL pectinase from *Aspergillus aculeatus* were added and shaken the flask at 30°C. The progress of the reaction was monitored periodically by LC-MS. After 16 hours, the reaction was stopped by heating at 80 °C for 30 minutes and centrifuged at 4000 rpm for 10 minutes. The supernatant was dried under reduced pressure and fractionated on a 60g C18 column using a standard 5/35/70/100 MeOH: H_2O step gradient. The desired products were eluted in 70% MeOH fraction. The 70% SPE frxn (2g) was further purified on reversed phase-HPLC column (3 X 10 cm Atlantis T3 OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 10 to 30% B over 30 minutes, with 95% B wash, followed by re-equilibration at 10% (total run time = 42 minutes). Each run was collected in 12 tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction over 8 injections. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 2 mL of water and lyophilized to get 283 mg of white fluffy solid with ~90% purity.

[0350] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.48 (m, 2H, 6 & G3-1-H), 4.93 (d, J = 7.9 Hz, 1H, G1-1-H), 4.89 (m, 2H, G2 & G4-1-H), 3.76 (d, J = 7.9 Hz, 1H, 24-H), 3.66 (d, J = 2.7 Hz, 1H, 3-H), 1.56 (s, 3H, 29-Me), 1.46 (s, 3H, 27-Me), 1.34 (s, 6H, 26 &

28-Me), 1.12 (s, 3H, 19-Me), 1.07 (d, J = 6.3 Hz, 3H, 21-Me), 0.92 (s, 6H, 18 & 30-Me); ESI-MS, 1123.83 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 3: Isolation and enzymatic production of Mogroside IV_E



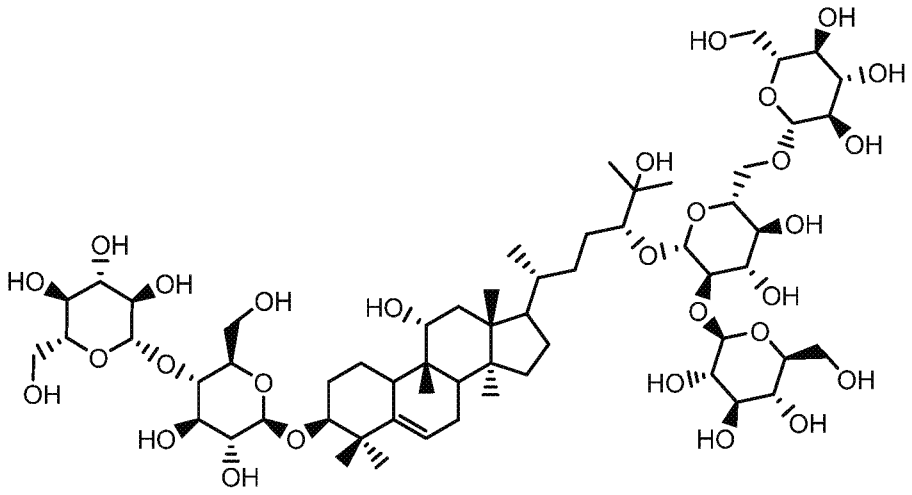
[0351] **Isolation:** 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 22 injections using an A/B gradient (A = water + 0.1% formic acid, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in FractionFractions 25 along with other isomers. The pooled Fraction 25 (275 mg) was further fractionated in 4 runs on fluoro-phenyl HPLC (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 140 mg of fluffy white solid with ≥95% purity.

[0352] **Enzyme hydrolysis:** To a 250mL erlenmeyer flask, 2g of mogroside V, 100mL of 0.1 M sodium acetate buffer pH5.0 and 1mL pectinase from *Aspergillus aculeatus* were added and shaken the flask at 30°C. The progress of the reaction was monitored

periodically by LC-MS. After 16 hours, the reaction was stopped by heating at 80 °C for 30 minutes and centrifuged at 4000 rpm for 10 minutes. The supernatant was dried under reduced pressure and fractionated on a 60g C18 column using a standard 5/35/70/100 MeOH: H_2O step gradient. The desired products were eluted in 70% MeOH fraction. The 70% SPE frxn (2g) was further purified on reversed phase-HPLC column (3 X 10 cm Atlantis T3 OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 10 to 30% B over 30 minutes, with 95% B wash, followed by re-equilibration at 10% (total run time = 42 minutes). Each run was collected in 12 tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction over 8 injections. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 2 mL of water and lyophilized to get 232 mg of white fluffy solid with ~90% purity.

[0353] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.42 (1H, merged with HDO peak), 5.35 (d, J = 7.8 Hz, 1H), 5.11 (d, J = 7.8 Hz, 1H), 5.01 (d, J = 7.8 Hz, 1H), 4.77 (d, J = 7.9 Hz, 1H), 3.66 (s, 1H), 1.46 (s, 6H), 1.41 (s, 3H), 1.29 (s, 3H), 1.07 (s, 3H), 1.02 (d, J = 6.3 Hz, 3H), 0.83 (s, 3H), 0.82 (s, 3H); ESI-MS 1147.6 $(M+Na)^+$, 1123.80 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 4: Isolation of Iso-mogroside V

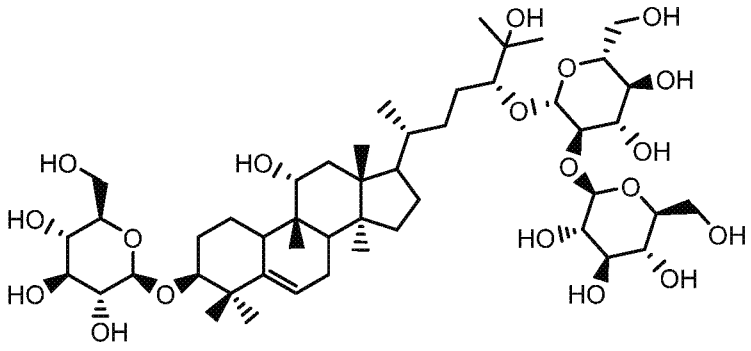


[0354] 180 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was

fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 360 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 19 along with other isomers. The pooled Fraction 19 (3.6 g) was further fractionated in 49 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30.3 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 8 and 9 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition of 5 mL of H_2O and lyophilized the sample for 72 hours to get ~ 1.05 g of fluffy white solid with 95% purity.

[0355] ^{1}H NMR (400 MHz, Methanol-d_4), selected signals: δ 5.49 (d, J = 6.0 Hz, 1H, 6-H), 4.78 (d, J = 7.7 Hz, 1H, G1-1H), 4.44 (d, J = 7.3 Hz, 1H, G2-1H), 4.41 (d, J = 7.8 Hz, 1H, G3-1H), 4.31 (d, J = 7.8 Hz, 1H, G4-1H), 4.28 (d, J = 7.8 Hz, 1H, G5-1H), 1.19 (s, 3H, 29-Me), 1.15 (s, 3H, 27-Me), 1.11 (s, 6H, 26 & 19-Me), 1.08 (s, 3H, 28-Me), 0.98 (d, J = 6.1 Hz, 3H, 21-Me), 0.92 (s, 3H, 30-Me), 0.89 (s, 3H, 18-Me); ESI-MS 1285.67 $(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 5: Isolation and enzymatic production of Mogroside III_E



[0356] **Isolation:** 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um,

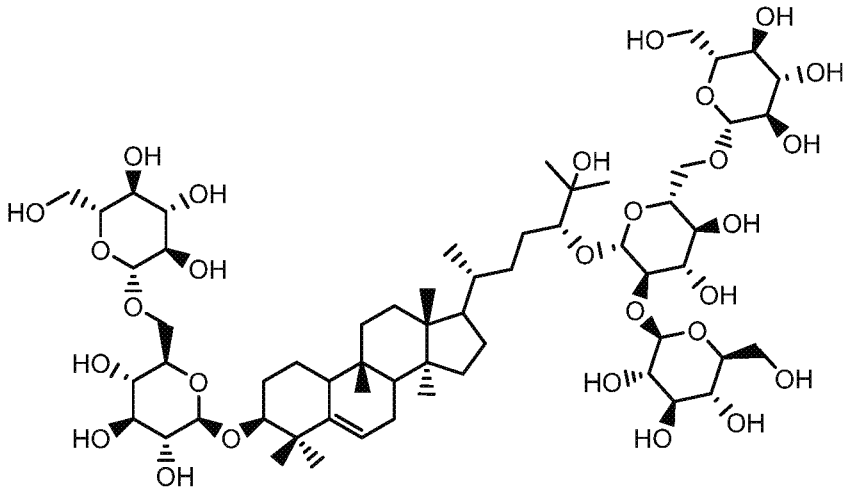
Waters) by 22 injections using an A/B gradient (A = water + 0.1% formic acid, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24 (lot 1). The same HPLC conditions with a slight change in the mobile phase (A = water, B = acetonitrile) were used to fractionate additional 14 g of the powder and dried the FractionFractions on Genevac HT12/HT24 (lot 2). The desired compound was eluted in Fraction 30 along with other isomers. The pooled Fraction 30 from lot 1 and 2 (204 mg) was further fractionated in 4 runs on fluoro-phenyl HPLC column (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 80 mg of fluffy white solid with ≥ 95% purity.

[0357] Enzyme hydrolysis: To a 2-L Erlenmeyer flask, 100g of mogrosides 50% powder (Fructus momordicae extract, 50% mogrosides, light yellow powder; from Xi'an Heking Bio-tech Co.,Ltd.), 1L of 0.1 M sodium acetate buffer, pH5.0 and 30mL pectinase from *Aspergillus aculeatus* (from Sigma, catalog # E6287) was added and shook the flask at 50°C in the shaker oven. The progress of the reaction was monitored by LC-MS analysis. After 24 hours, the reaction was stopped by heating the flask at 80 °C for 30 minutes and centrifuged at 4000rpm for 10 minutes to remove the unreacted enzyme precipitate. The supernatant was dried under reduced pressure and fractionated on a 400g C18 column using a standard 5/35/70/100 MeOH: H_2O gradient in multiple runs (~10g each run). The desired mogroside III_E was eluted in 70% MeOH fraction and pooled all the runs to get 60g of enriched Fraction. About 19g of the 70% MeOH fraction was further purified on RP-HPLC in 21 runs using C18 HPLC (5 X 10 cm Atlantis T3 OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 10% (total run time = 42 minutes). Each run was collected in 36 tubes (12 fractions/plate, 3 plates per run) at

30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 20 mL of water and lyophilized to get 4.41g of fluffy white solid with ≥95 % purity.

[0358] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.48 (m, 1H, 6-H), 5.35 (d, J = 7.7 Hz, 1H, G2-1H), 5.10 (d, J = 7.7 Hz, 1H, G1-1H), 4.91 (d, J = 7.8 Hz, 1H, G3-1H), 3.93 (m, 1H, 24-H), 3.68 (s, 1H, 3-H), 1.57 (s, 1H, 26-Me), 1.50 (s, 1H, 29-Me), 1.46 (s, 3H, 27-Me), 1.33 (s, 3H, 19-Me), 1.14 (s, 3H, 28-Me), 1.06 (d, J = 6.3 Hz, 3H, 21-Me), 0.89 (s, 3H, 30-Me), 0.88 (s, 3H, 18-Me); ESI-MS 985.59 $(M+Na)^+$, 961.71 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

Example 6: Isolation of 11-Deoxy-mogroside V

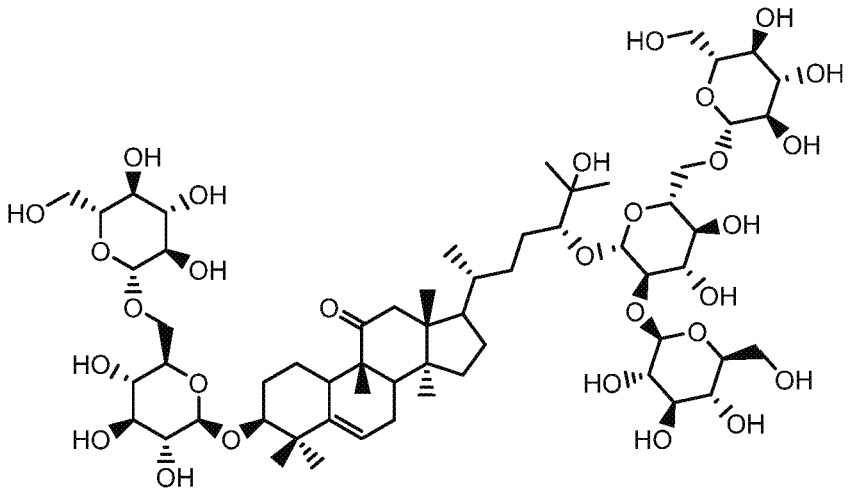


[0359] 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 22 injections using an A/B gradient (A = water + 0.1% formic acid, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24 (lot 1). The same HPLC conditions with a slight change in the mobile phase (A = water, B = acetonitrile) were used to fractionate additional 14 g of the powder and dried the FractionFractions on Genevac

HT12/HT24 (lot 2). The desired compound was eluted in FractionFractions 32 and 33 in both lots along with other minor isomers. The pooled FractionFractions 32 and 33 (275 mg; dissolved in 3 mL of H_2O) were further fractionated in 4 HPLC runs on fluoro-phenyl column (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 140 mg of fluffy white solid with ≥ 95% purity.

[0360] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.49 (d, J = 7.7 Hz, 1H, G3-1-H)), 5.45 (m, 1H, 6-H), 5.23 (d, J = 7.7 Hz, 1H, G5-1-H), 4.94 (m, 1H, G1-1-H), 4.89 (m, 1H, G2-1-H), 4.84 (d, J = 7.8 Hz, 1H, G4-1-H), 3.78 (m, 1H, H-24), 3.70 (brs, 1H, H-3), 1.52 (s, 3H, 27-Me), 1.47 (s, 3H, 29-Me), 1.36 (s, 3H, 26-Me), 1.09 (d, J = 6.2 Hz, 3H, 21-Me), 1.04 (s, 3H, 28-Me), 0.89 (s, 3H, 19-Me), 0.84 (s, 3H, 18-Me), 0.80 (s, 3H, 30-Me). ESI-MS 1293.8 $(M+Na)^+$, 1269.8 $(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{28}$.

Example 7: Isolation of 11-Oxo-mogroside V

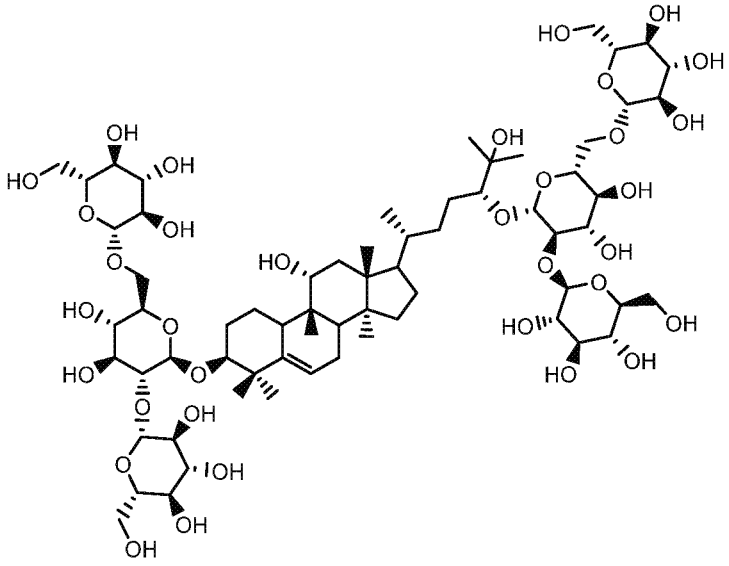


[0361] 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 22

injections using an A/B gradient (A = water + 0.1% formic acid, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 12 along with other isomers. The pooled Fraction 12 (582 mg) was further fractionated in 6 runs on fluoro-phenyl HPLC column (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 209 mg of fluffy white solid with 95% purity.

[0362] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.52 (d, J = 7.8 Hz, 1H, H-6), 5.47 (d, J = 6.0 Hz, 1H, G3-1-H), 5.17 (d, J = 7.8 Hz, 1H, G1-1-H) , 4.88 (d, J = 7.8 Hz, 1H, G5-1-H), 4.82 (d, J = 7.8 Hz, 1H, G2-1-H), 3.76 (m, 1H, 24-H), 3.67 (s, 1H, 3-H), 1.52 (s, 3H, 26-Me), 1.46 (s, 3H, 29-Me), 1.35 (s, 3H, 27-Me), 1.18 (s, 3H, 28-Me), 1.03 (s, 3H, 19-Me), 1.02 (d, J = 6.7 Hz, 3H, 21-Me), 1.00 (s, 3H, 30-Me), 0.74 (s, 3H, 18-Me); ESI-MS 1307.45 $(M+Na)^+$, 1283.81 $(M-H)^-$; Molecular formula, $C_{60}H_{100}O_{29}$.

Example 8: Isolation of Mogroside VI

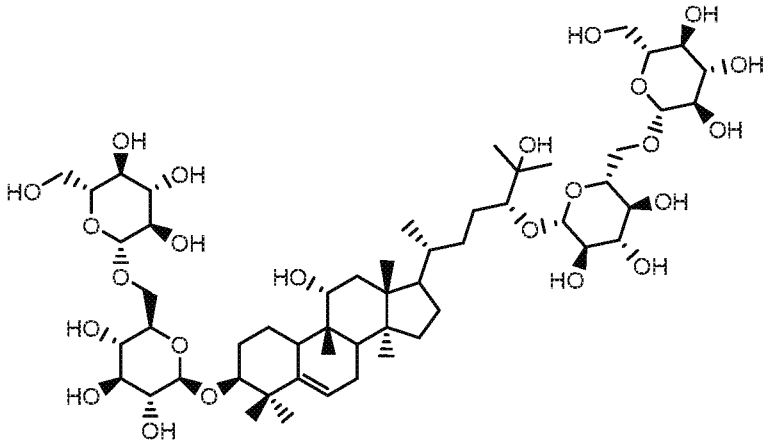


[0363] 80.2 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 14 along with other isomers. The pooled Fraction 14 (1.24 g) was further fractionated in 29 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 70 to 20% B over 21 minutes, followed by re-equilibration at 70% (total run time = 30.5 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 7 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition and 2 mL of H_2O and lyophilized the sample for 48 hours to get ~ 358 mg of fluffy white solid with ~ 85% purity.

[0364] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.5 (m, 1H, G3-1H, merged with HDO peak), 5.42 (m, 1H, 6-H), 5.19 (m, 2H, G6 & G2-1H), 4.88 (d, J = 7.8 Hz, 1H, G4-1H), 4.83 (m, 2H, G1-1H), 4.77 (d, J = 7.7 Hz, 1H, G5-1H), 3.69 (d, J = 8.8 Hz, 1H, 24-H), 1.48 (s, 3H, 29-Me), 1.42 (s, 3H, 27-Me), 1.28 (s, 3H, 26-Me), 1.25 (s, 3H, 19-Me), 1.09 (s,

3H, 28-Me), 1.02 (d, J = 6.2 Hz, 3H, 21-Me), 0.85 (s, 3H, 30-Me), 0.82 (s, 3H, 18-Me); ESI-MS 1471.51 $(M+Na)^+$, 1447.83 $(M-H)^-$; Molecular formula, $C_{66}H_{112}O_{34}$.

Example 9: Isolation and enzymatic production of Mogroside IV_A:



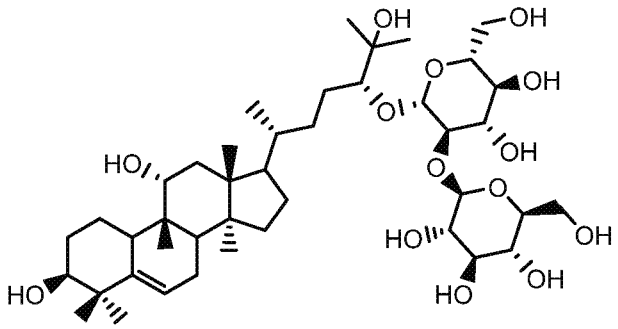
[0365] **Enzymatic:** To a 250-mL round bottom flask, 500 mg of pure mogroside V, 50 mL of water, 1 mL of 1M pH 8.0 phosphate buffer, 2g of lactose and 500 mg of β-galactosidase from *Aspergillus oryzae* (from Sigma, catalog # G5160) was added and stirred the flask at 37°C. The progress of the reaction was monitored every hour by LC-MS. After 3 hours, the reaction was quenched with 40 mL ethanol followed by centrifugation at 4000 rpm for 10 minutes. The supernatant was dried under reduced pressure and fractionated on SPE using a standard 5/35/70/100 MeOH: H_2O gradient. The desired mogroside IV_A was eluted in 70% Methanol fraction. 70% SPE Fraction was further purified on RP-HPLC using fluoro-phenyl HPLC (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 135.9 mg of fluffy white solid with ≥95% purity.

[0366] **Isolation:** 100 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5

um, Waters) by 200 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in frxn 22 along with other isomers. The pooled frxn 22 (947 mg) was further fractionated in 24 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30.3 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30 mL/fraction. Fraction 7 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition of 2 mL of H_2O and lyophilized the sample for 2 days to get 155 mg of fluffy white solid with ~85% purity.

[0367] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.49 (d, J = 6.0 Hz, 1H, 6-H), 5.19 (d, J = 7.7 Hz, 1H, G4-1-H), 4.93 (m, 1H, G1-1-H), 4.87 (m, 2H, G2 & G3-1-H), 3.78 (brd, J = 9.2 Hz, 1H, 24-H), 3.73 (s, 1H, 3-H), 1.54 (s, 3H, 29-Me), 1.46 (s, 3H, 26-Me), 1.33 (s, 6H, 19 & 27-Me), 1.12 (m, 3H, 28-Me), 0.94 (d, J = 6.5 Hz, 3H, 21-Me), 0.92 (s, 3H, 18-Me), 0.84 (s, 3H, 30-Me); ESI-MS 1147.32 $(M+Na)^+$, 1123.66 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 10: Enzymatic production of Mogroside II_A from celluclast

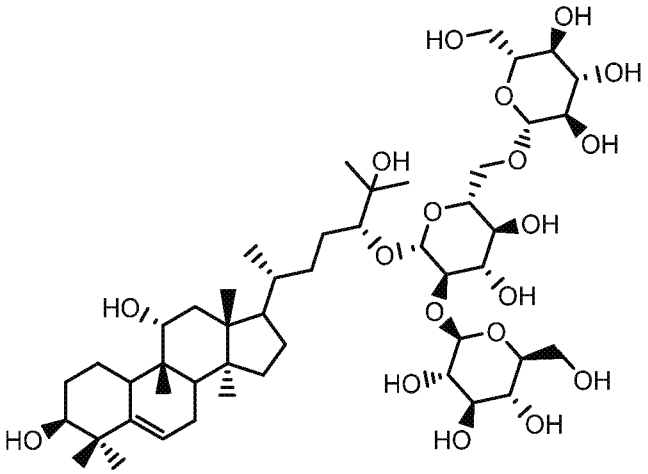


[0368] To a 250-mL baffled flask, 1 g of crude mogroside III_E, 53 mL of water, 15 mL of 1M sodium acetate buffer pH 5, 7 ml of Celluclast from Novozymes and 75 g of α-lactose were added and shook the flask at 220 rpm, 50°C for 9 days. The progress of the reaction was monitored periodically by LC-MS. The same reaction was repeated 17 more times for a total of

18g of mogroside III_E in two batches. After 9 days, the unreacted enzyme and excess lactose from the reaction mixtures was removed in three following steps before SPE purification. The reaction mixture was centrifuged for ~ 10 min at 5000 rpm to remove the excess lactose followed by the incubation at 80°C for 30 min with magnetic stirring at 500 rpm. Further approximately ~10% NH_4SO_4 solution was added to precipitate the unreacted enzymes and sugars, followed by centrifugation for 10 min at 5000 rpm and removed the precipitate. The supernatant was filtered through 0.22 μm PES and loaded onto 400g SPE C18 column and fractionated using a standard 5/35/70/100 MeOH: H_2O gradient. The desired compound was eluted in 70% methanol fraction. The combined 70% SPE Fraction (12g) was further purified on RP-HPLC using PF column using an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 72 tubes (12 fractions/plate, 6 plates per run) at 7.5 mL/fraction in 2 collection windows of 36 fractions each. Fractions 61-66 contained the desired peak with the desired purity (≥95%) and were pooled based on UPLC analysis and dried under reduced pressure to get 530mg of whitish powdery solid. 150 mg of a child sample was weighed out, dissolved in 2 mL of H_2O and lyophilized for 3 days to get a white fluffy solid.

[0369] ^{1}H NMR (400 MHz, Pyridine-d_5), selected signals: δ 5.58 (d, J = 6.0 Hz, 1H, 6-H), 5.36 (d, J = 7.9 Hz, 1H, G2-1H), 5.00 (d, J = 7.8 Hz, 1H, G1-1H), 3.88 (d, J = 7.2 Hz, 1H, 24-H), 3.69 (d, J = 3.0 Hz, 1H, 3-H), 1.46 (s, 3H, 27-Me), 1.41 (s, 3H, 26-Me), 1.38 (s, 3H, 29-Me), 1.33 (s, 3H, 19-Me), 1.14 (s, 3H, 28-Me), 1.02 (d, J = 6.4 Hz, 3H, 21-Me), 0.89 (s, 3H, 30-Me), 0.84 (s, 3H, 18-Me); ESI-MS 823.56 $(M+Na)^+$, 799.6 $(M-H)^-$; Molecular formula, $C_{42}H_{72}O_{14}$.

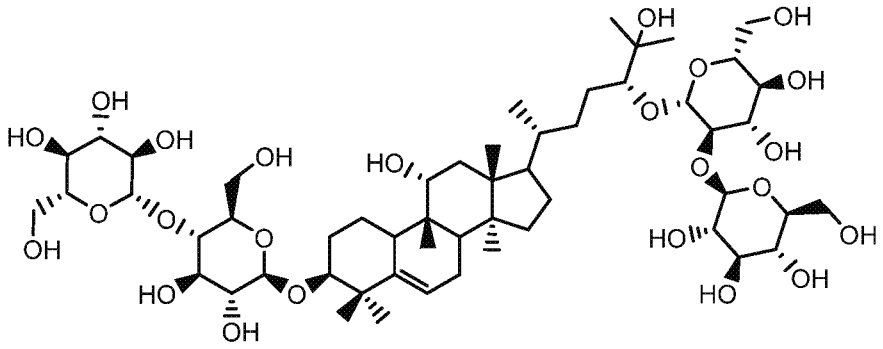
Example 11: Enzymatic production of Mogroside III_{A1} from Aromase



[0370] 10mg of Siamenoside I was dissolved in 1mL of 0.1M Mcilvaine's buffer (citrate/phosphate buffer system that can be volumetrically set for pH in a wide range 2.2 to 8) pH 3.4 and 5mg of Aromase from were added to a 96-well nunc plate across 35 wells (total of 350mg of Siamenoside I) and stirred at 50°C. Out of 35 individual reactions, couple of them was monitored periodically by LC-MS. After 6 hours, all the reactions were pooled to a flask, quenched with equal amount of ethanol and centrifuged at 4000rpm for 10 minutes. The supernatant was dried under reduced pressure and fractionated on 60g SPE column using 5/35/70/100/5 MeOH: H_2O gradient. The desired product was eluted in 70% and 100% MeOH fractions and purified further on flouro-phenyl 3x10 cm column using A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by 95% B wash and re-equilibration (total run time = 45 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fraction 11-12 contained the desired product and was pooled, dried down under reduced pressure and re-suspended in 5 mL of H_2O to get 100mg of white fluffy powder with ≥ 90% purity.

[0371] ^{1}H NMR (400 MHz, Pyridine-d_5+ D_2O), selected signals δ 5.59 (d, J = 6.1 Hz, 1H, 6-H), 5.51 (d, J = 7.8 Hz, 1H, G2-1H), 4.84 (m, 1H, G1-1H), 4.79 (d, J = 7.7 Hz, 1H, G3-1H), 3.71 (d, J = 9.0 Hz, 1H, 24-H), 3.68 (d, J = 3.1 Hz, 1H, 3-H), 1.43 (s, 3H, 26-Me), 1.38 (s, 3H, 28-Me), 1.34 (s, 3H, 19-Me), 1.29 (s, 3H, 27-Me), 1.14 (s, 3H, 29-Me), 1.04 (d, J = 6.4 Hz, 3H, 21-Me), 0.94 (s, 3H, 30-Me) and 0.87 (s, 3H, 18-Me); ESI-MS; 961.34 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

Example 12: Isolation of Compound 1

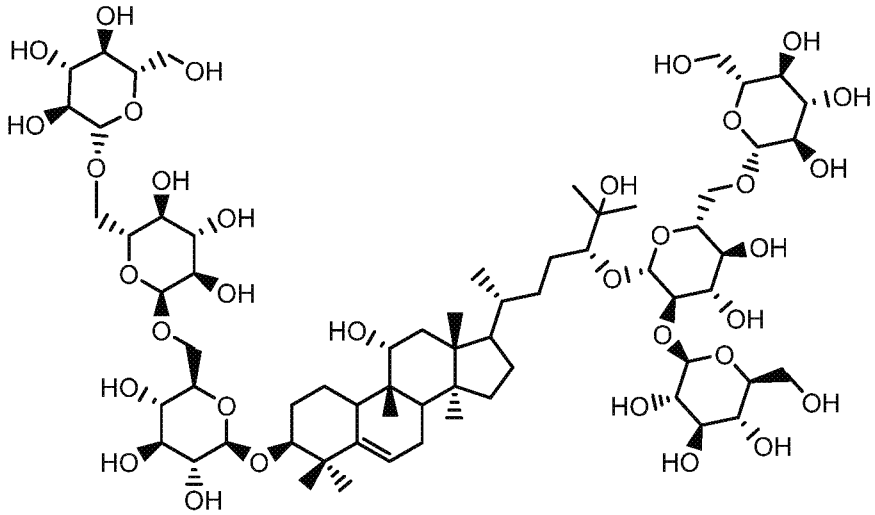


[0372] 80.2 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in FractionFractions 27 along with other isomers. The pooled Fraction 27 (223 mg) was further fractionated in 7 runs on fluoro-phenyl HPLC (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized to get 40.9 mg of fluffy white solid.

[0373] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.37 (s, 1H, 6-H), 5.35 (d, J = 7.8 Hz, 1H, G2-1-H), 5.14 (d, J = 7.9 Hz, 1H, G4-1-H), 5.00 (d, J = 7.7 Hz, 1H, G1-1-H), 4.77 (d, J = 8.0 Hz, 1H, G3-1-H), 3.57 (s, 1H, 3-H), 1.49 (s, 3H, 29-Me), 1.45 (s, 3H, 27-Me), 1.41 (s, 3H, 26-Me), 1.27 (s, 3H, 19-Me), 1.10 (s, 3H, 28-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.84 (s, 3H, 30-Me), 0.83 (s, 3H, 18-Me); ^{13}C NMR (101 MHz, pyridine) δ 144.15, 118.52, 106.79, 105.64, 104.77, 102.24, 88.77, 87.95, 82.95, 81.30, 78.43, 78.37, 78.32, 77.98, 77.91, 77.80, 76.54, 76.11, 75.88, 74.74, 72.44, 71.92, 71.29, 71.11, 63.07, 62.29, 62.20, 62.00, 50.70,

49.64, 47.35, 43.46, 42.30, 40.82, 40.07, 40.04, 36.70, 36.62, 34.49, 33.78, 28.57, 28.49, 27.63, 26.90, 26.76, 26.24, 25.48, 24.52, 19.37, 19.04, 17.00; ESI-MS 1147.74 $(M+Na)^+$, 1123.86 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 13: Isolation of Compound 2

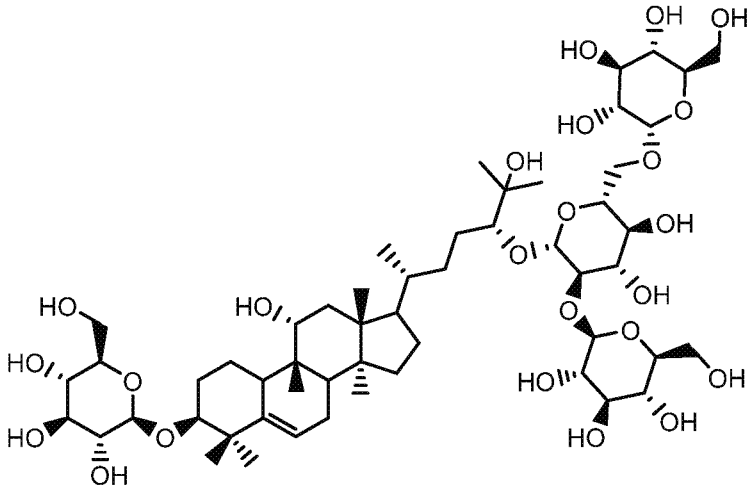


[0374] 80.2 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 8 along with other isomers. Out of 2g of pooled Fraction 8, 220 mg was further purified in 5 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 70 to 20% B over 21 minutes, followed by re-equilibration at 70% (total run time = 30.5 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 8 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition and 2 mL of H_2O and lyophilized the sample for 48 hours to get 109 mg of fluffy white solid with >90% purity.

[0375] ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.51 (m, 1H, G3-1H), 5.45 (m, 1H, 6-H; merged with HDO peak), 5.38 (d, J = 3.7 Hz, 1H, G5-1H), 5.10 (d, J =

7.8 Hz, 1H, G2 or G6-1H), 4.79 (m, 1H, G1-1H), 4.75 (d, J = 7.8 Hz, 1H, G4-1H), 4.70 (m, 1H, G2 or G6-1H), 3.69 (d, J = 8.4 Hz, 1H, 24-H), 3.63 (s, 1H, 3-H), 1.46 (s, 3H, 29-Me), 1.42 (s, 3H, 26-Me), 1.28 (s, 6H, 27 & 19-Me), 1.06 (s, 3H, 28-Me), 1.03 (d, J = 6.2 Hz, 3H, 21-Me), 0.88 (s, 3H, 30-Me) and 0.84 (s, 3H, 18-Me); ESI-MS 1471.96 $(M+Na)^+$, 1447.17 $(M-H)^-$; Molecular formula, $C_{66}H_{112}O_{34}$.

Example 14: Isolation and enzymatic production of Compound 3



[0376] From CGTase enzyme: To a 250 mL Erlenmeyer flask, 500 mg of crude Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L; catalog # 775700) from Novozyme were added and shook the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was stopped by heating at 80°C and centrifuged at 4000 rpm for 10minutes to remove the unreacted enzyme. The supernatant was dried down under reduced pressure. The same reaction was repeated 139 more times (total 70 g of $MIII_E$). The combined supernatant from 140 runs was fractionated on multiple SPE runs using 400 g C18 column and the standard 5/35/70/100/5 MeOH: H_2O gradient. The desired product was eluted in 70% MeOH SPE FractionFractions along with other minor isomers and the unreacted $MIII_E$. The combined 70% SPE Fraction (65 g) was purified on PF-HPLC using reversed phase conditions in 73 runs injecting ~ 900mg each time on 5 x 10 cm column with an A/B gradient (A = water, B = acetonitrile) of 15-30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 40 minutes). Each run was collected in 36

tubes (3 plates per run) at 30 mL/fraction. The desired product was eluted in FractionFractions 13 to 16 with ~ 85-90% purity along with other minor MV and 11-oxo-MIV isomers. The combined lots of FractionFractions 13-14 (6.3g) and 15-16 (4.6g) were further purified on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 72 runs injecting about 150mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions contained the desired product with desired purity were pooled, removed the solvents under reduced pressure, re-dissolved in H_2O and lyophilized the sample for about 5 days to get 4.86 g of white fluffy solid with ≥ 95% purity.

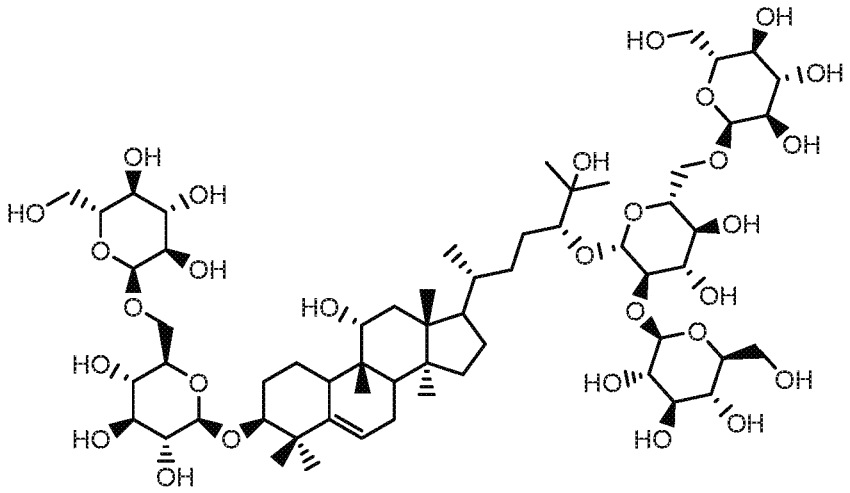
[0377] **From Dextransucrase/dextranase enzyme:** To a 3L shake flask, 100 mL of pH 5.5 1M sodium acetate buffer, 200g sucrose, 100 ml dextransucrase DexT (1mg/ml crude extract, pET23a, BL21-Codon Plus-RIL, grown in 2X YT), 12.5g of Mogroside III_E and 600 ml of water were added and shook the flask at 30°C, 200rpm. The progress of the reaction was monitored periodically by LC-MS. After 72hrs, the reaction was treated with 2.5 mL of dextranase (Amano). After 24 hrs of the addition of dextranase, the reaction was quenched by heating at 80°C and centrifuged at 5,000 rpm for 5 minutes and the supernatant was filtered and loaded onto a 400g C18 SPE column. The sample was fractionated on a 5/25/50/75/100/5 MeOH: H_2O step gradient. The desired product was eluted in the 50 and 75% MeOH fractions and purified further on Hilic 3x10 cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. FractionFractions contained the desired product with desired purity (F7) were pooled, removed the solvents under reduced pressure, re-dissolved in H_2O and lyophilized the sample for about 5 days to get 3.1 g of white fluffy solid with ≥ 95% purity.

[0378] **Isolation:** 180 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder; sample ID: 50755234) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 360 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration

at 1% (total run time = 42 minutes) in two different batches of 80 and 100g. Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in frxn 20 along with major siamenoside I and other minor isomers. The pooled frxn 20 from two batches (618 and 704 mg) was further fractionated in 27 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30.3 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 15 mL/fraction. Fraction 10 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition of 2 mL of H_2O and lyophilized the sample for 2 days to get 103 mg of fluffy white solid with ~85% purity.

[0379] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.44 (m, 2H, 6-H & G2-1H, merged with HDO peak), 5.37 (d, J = 3.7 Hz, 1H, G3-1H), 4.86 (d, J = 7.7 Hz, 1H, G1-1H), 4.81 (d, J = 7.8 Hz, 1H, G4-1H), 3.72 (m, 1H, 24-H), 3.61 (s, 1H, 3-H), 1.49 (s, 3H, 29-Me), 1.42 (s, 3H, 27-Me), 1.30 (s, 3H, 26-Me), 1.27 (s, 3H, 30-Me), 1.09 (s, 3H, 28-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.87 (s, 3H, 19-Me) and 0.84 (s, 3H, 18-Me); ESI-MS 1125.94 $(MH)^+$, 1123.92 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

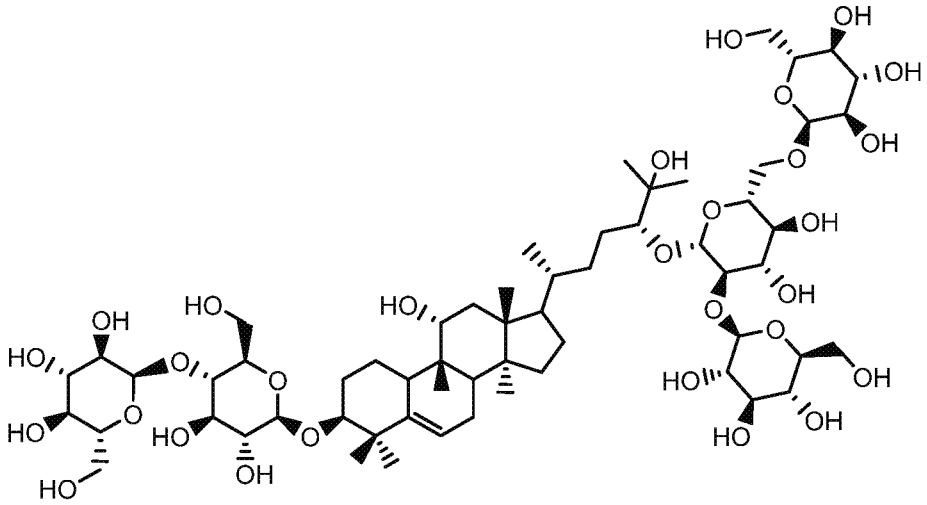
Example 15: Enzymatic production of Compound 4



[0380] To a 250 mL round bottom flask, 500 mg of Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L) from Novozyme were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was quenched with 100mL of ethanol and centrifuged at 4000 rpm for 10minutes. The supernatant was dried down under reduced pressure. The same reaction was repeated 45 more times (~ 23 g of $MIII_E$ produced directly from 50% powder with pectinase enzyme reaction) and dried down the supernatant. The combined supernatant was processed in 4 different batches from 46 reactions was fractionated on four SPE runs using 400 g column and the standard 5/35/70/100/5 gradient. The desired product was eluted in 70% SPE Fraction along with major siamenoside isomer, other minor isomers and the unreacted $MIII_E$. The 70% SPE Fraction from 4 batches (~ 30 g) was fractionated on HPLC using Hilic column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 150 runs injecting 200mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 1 plate per run) at 15mL/fraction. Fraction 19 contained the desired product along with other MV isomers. Fraction 19 (1g) was pooled, concentrated under reduced pressure and further purified using the same Hilic HPLC conditions with low injection amount (50 mg) and collection volume (7.5 mL per vial) to separate MV isomers. The desired compound was eluted in FractionFractions 8-10. It was pooled, removed the solvents on rotavap/genevac, added 2 mL of H_2O and filtered through 0.45 um filter and dried the sample on lyophilizer to get 72 mg of ~ 80% pure MV isomer.

[0381] ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.46-5.40 (m, 3H, H-6, G2-1H & G5-1H; merged with HDO peak), 5.28 (d, J = 3.7 Hz, 1H, G3-1H), 4.84 (d, J = 7.8 Hz, 1H, G1-1H), 4.82 (d, J = 7.8 Hz, 1H, G4-1H), 3.71 (d, J = 8.0 Hz, 1H, 24-H), 3.61 (s, 1H, 3-H), 1.49 (s, 3H, 28-Me), 1.41 (s, 3H, 26-Me), 1.29 (s, 3H, 27-Me), 1.28 (s, 3H, 19-Me), 1.10 (s, 3H, 29-Me), 1.01 (d, J = 5.9 Hz, 3H, 21-Me), 0.87 (s, 3H, 30-Me), 0.84 (s, 3H, 18-Me); ESI-MS 1285.84 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Example 16: Enzymatic production of Compound 5

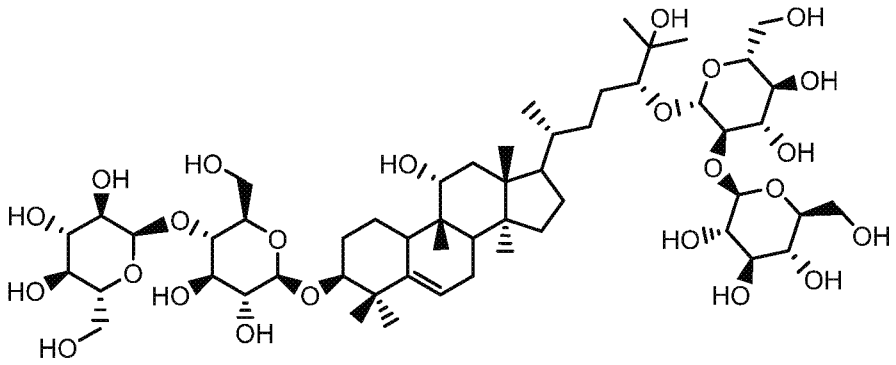


[0382] To a 250 mL round bottom flask, 500 mg of Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase (CGTase); *Bacillus lichenformis*; Toruzyme 3.0L) from Novozyme were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was quenched with 100mL of ethanol and centrifuged at 4000 rpm for 10minutes. The supernatant was dried down under reduced pressure. The same reaction was repeated 46 more times (~ 23 g of $MIII_E$ produced directly from 50% powder with pectinase enzyme reaction) in 4 different bathes and processed further as each batch. The pooled supernatant from each batch was dried down and was fractionated separately on four SPE runs using 400 g column and the standard 5/35/70/100/5 gradient. The desired product was eluted in 70% SPE Fraction along with major siamenoside isomer (structure ID: 62071851), other minor MIV, MV & MVI isomers and the unreacted $MIII_E$. The 70% SPE Fraction from 4 batches (~ 26 g) was fractionated on HPLC using Hilic column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 130 runs injecting 200mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 1 plate per run) at 15mL/fraction. Fraction 19 contained the desired product along with other MV isomers. Fraction 19 (1g) was pooled, concentrated under reduced pressure and further purified using the same Hilic HPLC conditions with low injection amount (50 mg) and collection volume (7.5 mL per vial) to separate MV isomers. The desired compound was eluted in Fraction 4. It was pooled,

removed the solvents on rotavap/genevac, added 2 mL of H_2O and filtered through 0.45 um filter and dried the sample on lyophilizer to get 70 mg of ~ 90% pure MV isomer.

[0383] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals:, δ 5.90 (d, J = 3.9 Hz, 1H, G5-1H), 5.49 (m, 1H, G2-1H), 5.46 (m, 1H, 6-H, merged with HDO peak), 5.34 (d, J = 3.6 Hz, 1H, G3-1H), 4.78 (m, 2H, G1 & G4-1H), 3.65 (m, 1H, 24-H), 3.51 (brs, 1H, 3-H), 1.45 (s, 3H, 28-Me), 1.39 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.23 (s, 3H, 26-Me), 1.19 (s, 3H, 29-Me), 1.08 (d, J = 6.2 Hz, 3H, 21-Me), 1.00 (s, 3H, 30-Me) & 0.87 (s, 3H, 18-Me); ESI-MS 1285.79 $(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 17: Enzymatic production of Compound 6

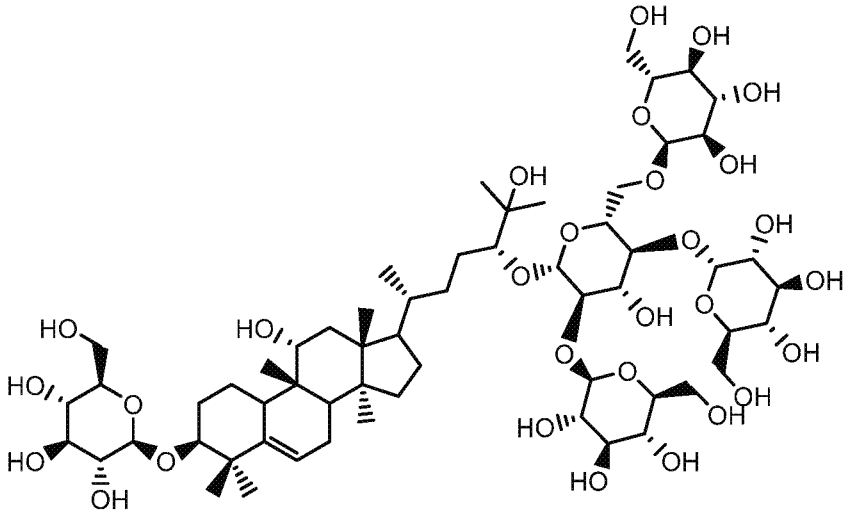


[0384] To a 250 mL round bottom flask, 550 mg of Mogroside IIIE, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; Bacillus lichenformis; Toruzyme 3.0L) from Novozyme were added and stirred at 50°C . The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was quenched with 100mL of ethanol and centrifuged at 4000 rpm for 10 minutes. The supernatant was dried down under reduced pressure. The same reaction was repeated 21 more times (~12 g of MIIIE) and dried down the supernatant. The combined supernatant from 22 reactions was fractionated on 6 SPE runs using 400 g column and the standard 5/35/70/100/5 gradient. The desired product was eluted in 70% SPE Fraction along with other minor isomers and the unreacted MIIIE. The combined 70% SPE FractionFractions (~14 g) was further purified on HPLC using Hilic column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 95 runs injecting ~150mg each time with an A/B gradient (A = 3:1 MeOH: H2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes).

Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fraction 5 contained the desired product along with other MIV isomers including siamenoside I isomer (Structure ID: 62071851). It was pooled, concentrated under reduced pressure (1.07g) and further purified using the same Hilic HPLC conditions with low injection amount (55 mg) and collection volume (15 mL per vial) to separate MIV isomers. The desired compound was eluted in Fraction 5 as a major isomer. It was pooled, removed the solvents on rotavap/genevac, added 5 mL of H2O and filtered through 0.45 um filter and dried the sample on lyophilizer to get 93 mg of ~ 75% pure α-MIV isomer

[0385] ^{1}H NMR (400 MHz, Pyridine-d5+D2O), selected signals: δ 5.94 (d, J = 3.8 Hz, 1H, G4-1H), 5.42 (m, 1H, 6-H, merged with HDO peak), 5.36 (d, J = 7.8 Hz, 1H, G2-1H), 5.01 (d, J = 7.8 Hz, 1H, G1-1H), 4.77 (d, J = 7.8 Hz, 1H, G3-1H), 3.88 (d, J = 7.9 Hz, 1H, 24-H), 3.58 (s, 1H, 3-H), 1.46 (m, 6H, 26 & 28-Me), 1.41 (s, 3H, 27-Me), 1.32 (s, 3H, 19-Me), 1.09 (s, 3H, 29-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.84 (brs, 6H, 18 & 30-Me); ESI-MS 1123.63 (M-H)-; Molecular formula, C54H92O24.

Example 18: Enzymatic production of Compound 7

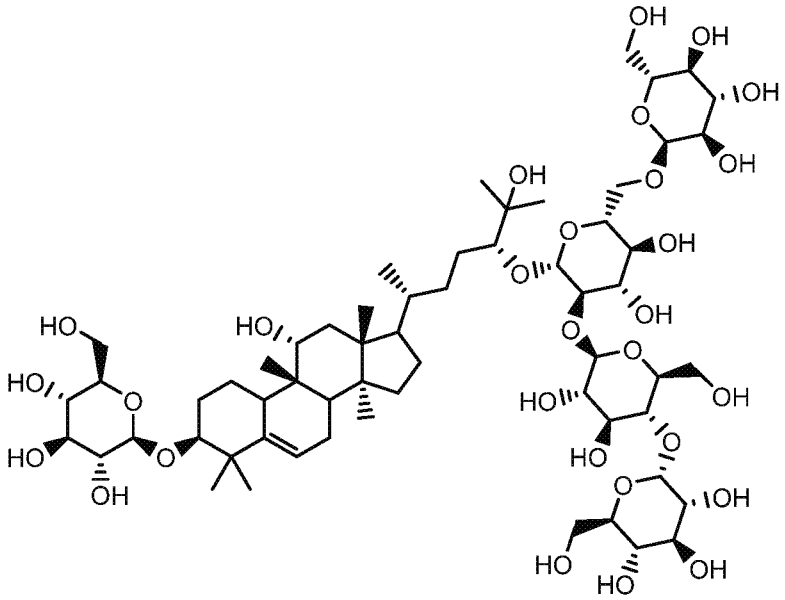


[0386] To a 250 mL Erlenmeyer flask, 500 mg of crude Mogroside III$_E$, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L; catalog # 775700) from Novozyme were added and shaked the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was stopped by heating at 80°C

and centrifuged at 4000 rpm for 10minutes to remove the unreacted enzyme. The supernatant was dried down under reduced pressure. The same reaction was repeated 139 more times (total 70 g of $MIII_E$). The combined supernatant from 140 runs was fractionated on multiple SPE runs using 400 g C18 column and the standard 5/35/70/100/5 MeOH: H_2O gradient. The desired product was eluted in 70% MeOH SPE FractionFractions along with other minor isomers and the unreacted $MIII_E$. The combined 70% SPE Fraction (65 g) was purified on PF-HPLC using reversed phase conditions in 73 runs injecting ~ 900mg each time on 5 x 10 cm column with an A/B gradient (A = water, B = acetonitrile) of 15-30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 40 minutes). Each run was collected in 36 tubes (3 plates per run) at 30 mL/fraction. The desired minor product was eluted in FractionFractions 6 with ~ 60% purity along with other minor isomers. The combined lots of Fraction 6 (1.4g) was further purified on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 9 runs injecting about 150 mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions contained the desired product with desired purity were pooled, removed the solvents on rotovap, re-dissolved in H_2O and lyophilized the sample for about 3 days to get 240 mg of white fluffy solid with ≥ 95% purity.

[0387] ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.82 (d, J = 3.8 Hz, 1H, G5-1H), 5.45 (m, 1H, G2-1H, merged with HDO peak), 5.43 (m, 1H, 6-H, merged with HDO peak), 5.32 (d, J = 3.8 Hz, 1H, G4-1H), 4.86 (d, J = 7.4 Hz, 1H, G1-1H), 4.81 (d, J = 7.8 Hz, 1H, G3-1H), 3.70 (d, J = 8.4 Hz, 1H, 24-H), 3.60 (s, 1H, 3-H), 1.48 (s, 3H, 28-Me), 1.45 (s, 3H, 26-Me), 1.32 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.09 (s, 3H, 29-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.88 (s, 3H, 30-Me), 0.84 (s, 2H, 18-Me); ESI-MS 1287.76 $(MH)^+$, 1285.96 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Example 19: Enzymatic production of Compound 8

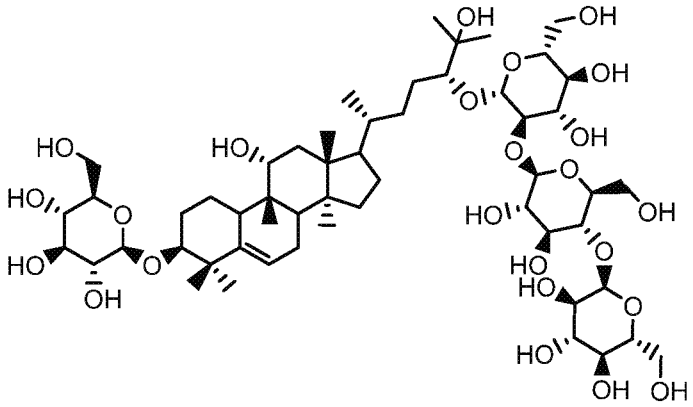


[0388] To a 250 mL Erlenmeyer flask, 500 mg of crude Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L; catalog # 775700) from Novozyme were added and shaked the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was stopped by heating at 80°C and centrifuged at 4000 rpm for 10minutes to remove the unreacted enzyme. The supernatant was dried down under reduced pressure. The same reaction was repeated 139 more times (total 70 g of $MIII_E$). The combined supernatant from 140 runs was fractionated on multiple SPE runs using 400 g C18 column and the standard 5/35/70/100/5 MeOH: H_2O gradient. The desired product was eluted in 70% MeOH SPE FractionFractions along with other minor isomers and the unreacted $MIII_E$. The combined 70% SPE Fraction (65 g) was purified on PF-HPLC using reversed phase conditions in 73 runs injecting ~ 900mg each time on 5 x 10 cm column with an A/B gradient (A = water, B = acetonitrile) of 15-30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 40 minutes). Each run was collected in 36 tubes (3 plates per run) at 30 mL/fraction. The desired minor product was eluted in FractionFractions 12 with ~ 60% purity along with other minor isomers. The combined lots of Fraction 12 (588 mg) was further purified on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 6 runs injecting about 100 mg each time with an A/B gradient (A =

3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions contained the desired product with desired purity were pooled, removed the solvents on rotovap, re-dissolved in H_2O and lyophilized the sample for about 3 days to get 110 mg of white fluffy solid with about 90% purity.

[0389] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.83 (d, J = 3.9 Hz, 1H, G5-1H), 5.45 (m, 1H, 6-H, merged with HDO peak), 5.43 (m, 1H, G2-1H, merged with HDO peak), 5.37 (d, J = 3.6 Hz, 1H, G4-1H), 4.86 (d, J = 7.7 Hz, 1H, G1-1H), 4.73 (d, J = 7.7 Hz, 1H, G3-1H), 3.72 (m, 1H, 24-H), 3.58 (s, 1H, 3-H), 1.47 (s, 3H, 28-Me), 1.41 (s, 3H, 26-Me), 1.29 (s, 3H, 27-Me), 1.26 (s, 3H, 19-Me), 1.08 (s, 3H, 29-Me), 1.01 (d, J = 6.2 Hz, 3H, 21-Me), 0.86 (s, 3H, 30-Me), 0.83 (s, 3H, 18-Me). ESI-MS 1287.94 $(MH)^+$, 1285.96 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Example 20: Enzymatic production of Compound 9

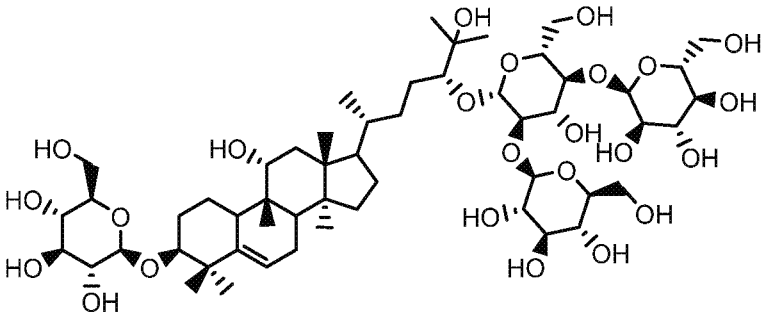


[0390] To a 250 mL round bottom flask, 500 mg of Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L) from Novozyme were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was quenched with 100mL of ethanol and centrifuged at 4000 rpm for 10minutes. The supernatant was dried down under reduced pressure. The same reaction was repeated 15 more times (7.9 g of $MIII_E$) and dried down the supernatant. The combined supernatant from 16 reactions was fractionated on four SPE runs using 400 g column and the

standard 5/35/70/100 MeOH: H_2O step gradient. The desired product was eluted in 70% SPE Fraction along with other minor isomers and the unreacted $MIII_E$. The combined 70% SPE FractionFractions (8.8 g) was further purified on HPLC using Hilic column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 58 runs injecting 150mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fraction 5 eluted as a mixture of MIV isomers along with S1851. The combined impure Fraction 5 generated by Hilic column runs from two previous batches (total 4.8g) was further purified on PF-HPLC using reversed phase conditions in 32 runs injecting 150mg each time with an A/B gradient (A = water, B = acetonitrile) of 19% B over 22 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 30 minutes). Each run was collected in 12 tubes (1 plate per run) at 30 mL/fraction. Based on UPLC analysis, fractions 2-4 contained S1851 and Fraction 7 contained the desired α-MIV isomer. Fraction 7 was pooled, concentrated under reduced pressure and re-suspended/dissolved in 3 mL of water and lyophilized for 3 days to get 214.9 mg of white solid with about 90% purity.

[0391] ^{1}H NMR (400 MHz, Pyridine-d_5+ 30 μL D_2O), selected signals: δ 5.87 (d, J = 3.9 Hz, 1H, G4-1H), 5.44 (m, 1H, H-6, merged with HDO peak), 5.39 (d, J = 7.9 Hz, 1H, G2-1H), 4.94 (d, J = 7.7 Hz, 1H, G1-1H), 4.79 (d, J = 7.8 Hz, 1H, G3-1H), 3.82 (d, J = 8.4 Hz, 1H, 24-H), 3.55 (s, 1H, 3-H), 1.46 (s, 3H, 28-Me), 1.43 (s, 3H, 26-Me), 1.37 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.17 (s, 3H, 29-Me), 1.06 (d, J = 6.3 Hz, 3H, 21-Me), 0.94 (s, 3H, 30-Me) and 0.85 (s, 3H, 18-Me); ESI-MS 1123.66 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

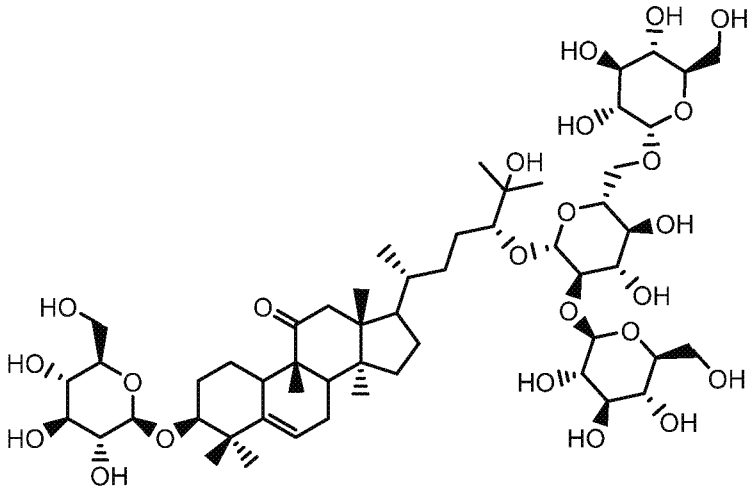
Example 21: Enzymatic production of Compound 10



[0392] To a 250 mL round bottom flask, 500 mg of Mogroside III_E, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L) from Novozyme were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was quenched with 100mL of ethanol and centrifuged at 4000 rpm for 10minutes. The supernatant was dried down under reduced pressure. The same reaction was repeated 15 more times (7.9 g of $MIII_E$) and dried down the supernatant. The combined supernatant from 16 reactions was fractionated on four SPE runs using 400 g column and the standard 5/35/70/100 gradient. The desired product was eluted in 70% SPE Fraction along with other minor isomers and the unreacted $MIII_E$. The combined 70% SPE FractionFractions (8.8 g) was further purified on HPLC using Hilic column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 58 runs injecting 150mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fraction 5 eluted as a mixture of MIV isomers along with S1851. The combined impure Fraction 5 generated by Hilic column runs from two previous batches (total 4.8g) was further purified on PF-HPLC using reversed phase conditions in 32 runs injecting 150mg each time with an A/B gradient (A = water, B = acetonitrile) of 19% B over 22 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 30 minutes). Each run was collected in 12 tubes (1 plate per run) at 30 mL/fraction. Based on UPLC analysis, fractions 2-4 contained S1851 and Fraction 9 contained the desired α-MIV isomer. Fraction 9 was pooled, concentrated under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for 3 days to get 58 mg of white fluffy solid with about 90% purity.

[0393] ^{1}H NMR (400 MHz, Pyridine-d_5 + 30 μL D_2O), selected signals: δ 5.83 (d, J = 3.9 Hz, 1H, G4-1H), 5.44 (m, 1H, H-6, merged with HDO peak), 5.35 (d, J = 7.8 Hz, 1H,G2-1H), 5.00 (d, J = 7.7 Hz, 1H, G1-1H), 4.74 (d, J = 7.8 Hz, 1H, G3-1H), 3.69 (d, J = 8.5 Hz, 1H, 24-H), 3.59 (s, 1H, 3-H), 1.48 (s, 3H, 28-Me), 1.45 (s, 3H, 26-Me), 1.41 (s, 3H, 27-Me), 1.26 (s, 3H, 19-Me), 1.09 (s, 3H, 29-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.83 (s, 3H, 30-Me) and 0.82 (s, 3H, 18-Me); ESI-MS 1123.78 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 22: Enzymatic production of Compound 11

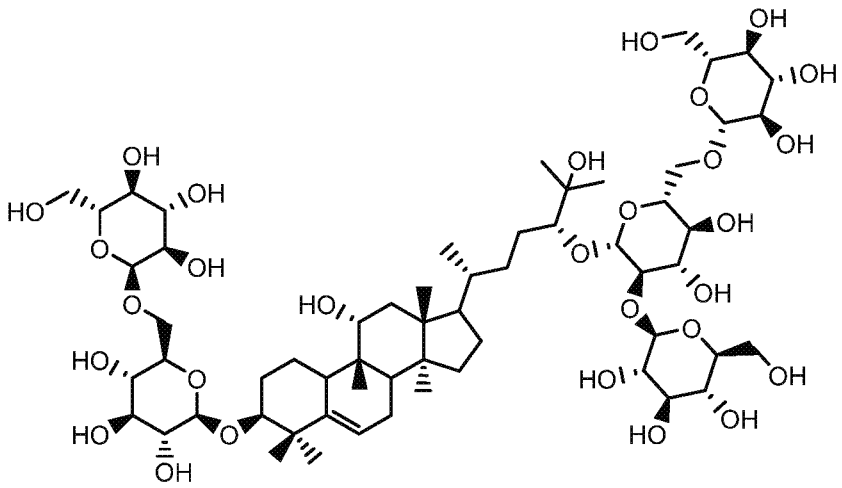


[0394] To a 250 mL Erlenmeyer flask, 500 mg of crude Mogroside III_E with ~ 5% of 11-oxo-$MIII_E$, 100 mL of pH 5, 0.1M sodium acetate buffer, 5g of soluble starch, and 30mL of CGTase (Cyclomaltodextrin glucanotransferase; *Bacillus lichenformis*; Toruzyme 3.0L; catalog # 775700) from Novozyme were added and shaked the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs the reaction was stopped by heating at 80°C and centrifuged at 4000 rpm for 10minutes to remove the unreacted enzyme. The supernatant was dried down under reduced pressure. The same reaction was repeated 139 more times (total 70 g of $MIII_E$). The combined supernatant from 140 runs was fractionated on multiple SPE runs using 400 g C18 column and the standard 5/35/70/100 MeOH: H_2O step gradient. The desired product was eluted in 70% MeOH SPE FractionFractions along with other mogroside isomers and the unreacted $MIII_E$. The combined 70% SPE Fraction (65 g) was purified on PF-HPLC using reversed phase conditions in 73 runs injecting ~ 900mg each time on 5 x 10 cm column with an A/B gradient (A = water, B = acetonitrile) of 15-30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 40 minutes). Each run was collected in 36 tubes (3 plates per run) at 30 mL/fraction. The desired product was eluted in FractionFractions 15 to 16 along with the major compound S1851. The combined lots of FractionFractions 15-16 (4.6g) were further purified on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) by 30 runs injecting about 150mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30 minutes). Each run

was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions containing the desired product with desired purity were pooled, removed the solvents under reduced pressure, re-dissolved in 3mL of H_2O and lyophilized the sample for about 3 days to get 118 mg of white fluffy solid with ≥ 95% purity.

[0395] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.44 (m, 2H, 6-H & G2-1H, merged with HDO), 5.37 (d, J = 3.6 Hz, 1H, G3-1H), 4.87 (d, J = 7.7 Hz, 1H, G1-1H), 4.80 (d, J = 7.8 Hz, 1H, G4-1H), 3.72 (dd, J = 8.9, 2.1 Hz, 1H, 24-H), 3.58 (s, 1H, 3-H), 1.48 (s, 3H, 29-Me), 1.43 (s, 3H, 27-Me), 1.31 (s, 3H, 26-Me), 1.10 (s, 3H, 19-Me), 1.04 (s, 3H, 28-Me), 0.94 (d, J = 5.9 Hz, 6H, 30 and 21-Me), 0.67 (s, 3H, 18-Me); ESI-MS 1123.65 $(MH)^+$, 1121.70 $(M-H)^-$; Molecular formula, $C_{54}H_{90}O_{24}$.

Example 23: Enzymatic production of Compound 12

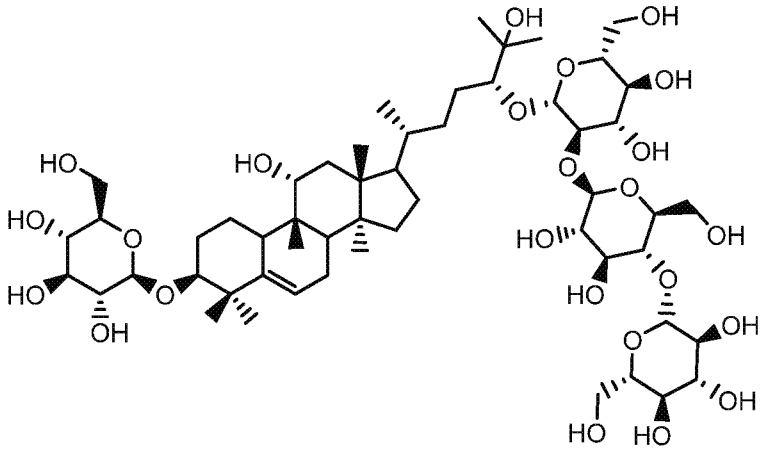


[0396] To a 100 mL round bottom flask, 150mg of Mogroside VI isomer, 30mL of 0.1M sodium acetate buffer, pH 5 and 60mg of invertase enzyme from baker's yeast (*Saccharomyces cerevisiae*, lot # SLBG7298V) were added and stirred at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 7 hours the reaction was quenched with 30mL of EtOH and centrifuged at 4000rpm for 10 minutes. The reaction was repeated twice more at 150mg scale each for a total of 450mg. After quenching and centrifugation, the supernatants of all three lots were pooled together and dried under reduced pressure followed by SPE fractionation using a standard 5/35/70/100 method with MeOH: H_2O step gradient. The desired product was eluted in 70% MeOH fraction (300 mg) and purified further on HILIC

column by 6 runs using an A/B gradient (A = 3:1 MeOH : H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. The desired product was eluted in fraction 7. The pooled Fraction 7 from 5 runs was concentrated under reduced pressure followed by the addition of 2 mL of H_2O and lyophilized for ~ 48 hours to get 124 mg of a white fluffy powder with >90% purity.

[0397] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.52 (d, J = 7.8 Hz, 1H, G3-1H), 5.45 (m, 1H, 6-H, merged with HDO peak), 5.38 (d, J = 3.7 Hz, 1H, G5-1H), 4.81 (d, J = 5.7 Hz, 1H, G4-1H), 4.79 (d, J = 4.7 Hz, 1H, G1-1H), 4.70 (d, J = 7.7 Hz, 1H, G2-1H), 3.69 (d, J = 8.8 Hz, 1H, 24-H), 3.60 (s, 1H, 3-H), 1.49 (s, 3H, 28-Me), 1.42 (s, 3H, 26-Me), 1.28 (s, 6H, 19 & 27-Me), 1.09 (s, 3H, 29-Me), 1.02 (d, J = 6.3 Hz, 3H, 21-Me), 0.88 (s, 3H, 30-Me), 0.85 (s, 3H, 18-Me); ESI-MS 1285.94 $(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 24: Enzymatic production of Compound 13

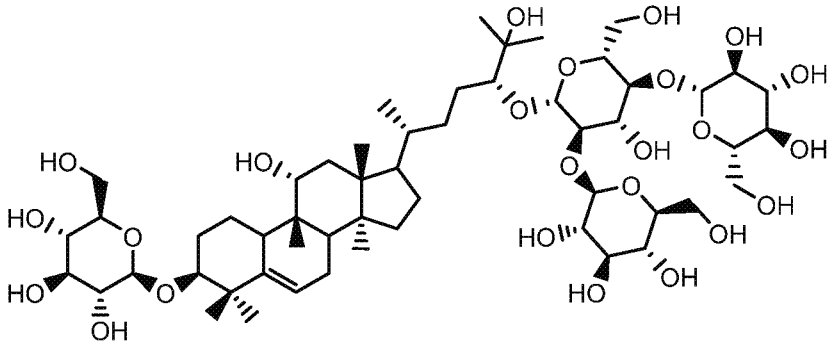


[0398] To a 250-mL baffled flask, 1 g of crude mogroside III_E, 53 mL of water, 15 mL of 1M sodium acetate buffer pH 5, 7 ml of celluclast from Novozymes and 75 g of α-lactose were added and shook the flask at 220 rpm, 50°C for 9 days. The progress of the reaction was monitored periodically by LC-MS analysis. The same reaction was repeated 17 more times for a total of 18g of mogroside III_E in two batches. After 9 days, the unreacted enzyme and excess lactose from the reaction mixtures were removed in three following steps before SPE purification. The reaction mixture was centrifuged for ~ 10 min at 5000 rpm to remove the excess lactose followed by the incubation at 80°C for 30 min with magnetic stirring at 500 rpm.

Further approximately ~10% NH_4SO_4 solution was added to precipitate the unreacted enzymes and sugars, followed by centrifugation for 10 min at 5000 rpm and removed the precipitate. The supernatant was filtered through 0.22 μm PES and loaded onto 400g SPE C18 column and fractionated using a standard 5/35/70/100 MeOH: H_2O gradient. The desired compound was eluted in 70% methanol fraction. The combined 70% SPE Fraction (12g) was further purified on RP-HPLC using PF column using an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 72 tubes (12 fractions/plate, 6 plates per run) at 7.5 mL/fraction in 2 collection windows of 36 fractions each. Fractions 22-24 contained the desired peak with the desired purity and were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized for about 3 days to get 796mg of white solid.

[0399] ^{1}H NMR (400 MHz, Pyridine-d_5+ D_2O), selected signals: δ 5.45 (m, 1H, H-6, merged with HDO peak), 5.36 (d, J = 7.8 Hz, 1H, G2-1H), 5.07 (d, J = 7.8 Hz, 1H, G4-1H), 5.00 (d, J = 7.8 Hz, 1H, G1-1H), 4.76 (d, J = 7.8 Hz, 1H, G3-1H), 3.88 (d, J = 8.0 Hz, 1H, 24-H), 3.56 (s, 1H, 3-H), 1.48 (s, 3H, 29-Me), 1.45 (s, 3H, 26-Me), 1.41 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.09 (s, 3H, 28-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.83 (s, 3H, 30-Me), 0.82 (s, 3H, 18-Me); ESI-MS 1123.85 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 25: Enzymatic production of Compound 14

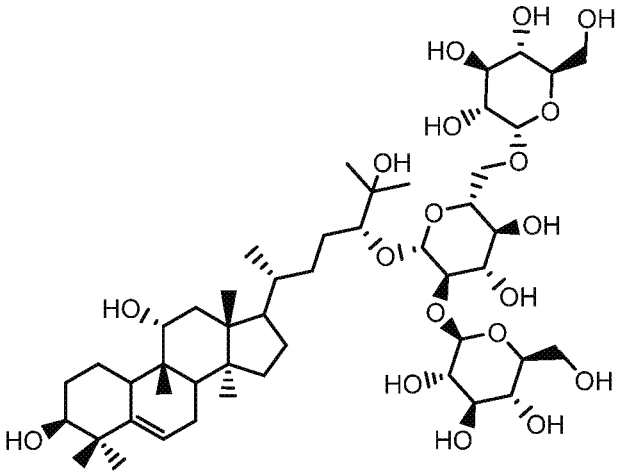


[0400] To a 250-mL baffled flask, 1 g of crude mogroside III_E, 53 mL of water, 15 mL of 1M sodium acetate buffer pH 5, 7 ml of celluclast from Novozymes and 75 g of α-lactose were added and shook the flask at 220 rpm, 50°C for 9 days. The progress of the reaction was

monitored periodically by LC-MS analysis. The same reaction was repeated 17 more times for a total of 18g of mogroside III_E in two batches. After 9 days, the unreacted enzyme and excess lactose from the reaction mixtures were removed in three following steps before SPE purification. The reaction mixture was centrifuged for ~ 10 min at 5000 rpm to remove the excess lactose followed by the incubation at 80°C for 30 min with magnetic stirring at 500 rpm. Further approximately ~10% NH_4SO_4 solution was added to precipitate the unreacted enzymes and sugars, followed by centrifugation for 10 min at 5000 rpm and removed the precipitate. The supernatant was filtered through 0.22 μm PES and loaded onto 400g SPE C18 column and fractionated using a standard 5/35/70/100 MeOH: H_2O gradient. The desired compound was eluted in 70% methanol fraction. The combined 70% SPE Fraction from both batches were further purified on RP-HPLC using PF column using an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 72 tubes (12 fractions/plate, 6 plates per run) at 7.5 mL/fraction in 2 collection windows of 36 fractions each. Fractions 19-21 eluted with the desired peak along with some other isomers. These fractions were combined and re-purified on RP-HPLC using PF column with an isocratic method of 18% B (A = water, B = acetonitrile) over 30 minutes, followed by 5 minutes of 95% B wash and 5 minutes of re-equilibration at 18% (total run time = 40 minutes). Each run was collected in 24 tubes (12 fractions/plate, 2 plates per run) at 15mL/fraction. Fractions 11-12 contained the desired peak with the desired purity, pooled and dried under reduced pressure. The dried Fraction was re-suspended/dissolved in 2 mL of water and lyophilized for 3 days to get 52 mg of white fluffy solid with ~ 95% purity.

[0401] ^{1}H NMR (400 MHz, Pyridine-d_5+ D_2O), selected signals: δ 5.44 (m, 1H, H-6, merged with HDO peak), 5.38 d, J = 7.8 Hz, 1H, G2-1H), 4.99 (d, J = 7.9 Hz, 1H, G3-1H), 4.89 (d, J = 7.6 Hz, 1H, G1-1H), 4.82 (d, J = 7.8 Hz, 1H, G4-1H), 3.78 (m, 1H, 24-H), 3.62 (s, 1H, 3-H), 1.49 (s, 3H, 28-Me), 1.42 (s, 3H, 26-Me), 1.38 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.10 (s, 3H, 29-Me), 0.99 (d, J = 6.3 Hz, 3H, 21-Me), 0.85 (s, 3H, 30-Me), 0.82 (s, 3H, 18-Me); ESI-MS 1147.57 $(M+Na)^+$, 1123.65 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 26: Enzymatic production of Compound 15

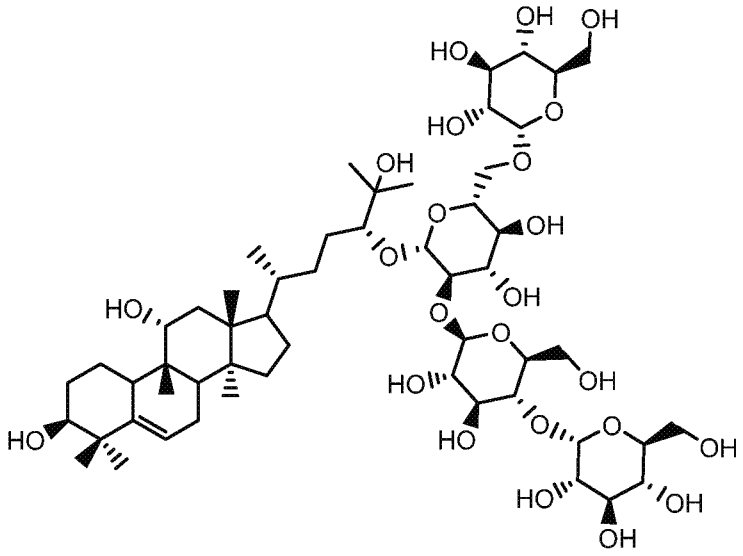


[0402] To a 250mL Erlenmeyer flask, 500mg of mogroside II_A, 100mL of 0.1M sodium acetate buffer pH 5, 20mL of Toruzyme from Novozymes and 5g of soluble starch were added and shook the flask at 200 rpm, 50°C for 1 day. The progress of the reaction was monitored periodically by LC-MS analysis. After 24 hours, the unreacted enzyme and excess starch from the reaction mixtures was removed by the incubation at 80°C for 30 min followed by centrifugation for 10 min at 4000 rpm and removed the precipitate. The same reaction was repeated 2 more times for a total of 1500mg of mogroside IIA. The combined supernatant from 3 reactions was loaded onto 400g C18 SPE cartridge and fractionated using 5/35/70/100 MeOH: H_2O step gradient. The desired compound was eluted in 70% methanol fraction. The 70% SPE Fraction was further purified on PF-HPLC using reversed phase conditions with an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 36 tubes (12 fractions/plate, 3 plates per run) at 15 mL/fraction. Based on UPLC analysis, fractions 21-24 contained the desired peak with the desired purity and were pooled and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 5 mL of water and lyophilized for 3 days to get 310mg of white fluffy solid with ≥ 95% purity.

[0403] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.58 (d, J = 5.9 Hz, 1H, 6-H), 5.45 (m, 1H, G2-1H; merged with HDO peak), 5.37 (d, J = 3.6 Hz, 1H, G3-1H), 4.87 (d, J = 7.7 Hz, 1H, G1-1H), 3.72 (d, J = 8.6 Hz, 1H, 24-H), 3.69 (s, 1H, 3-H), 1.42 (s, 3H, 26-Me), 1.37 (s, 3H, 28-Me), 1.33 (s, 3H, 19-Me), 1.30 (s, 3H, 27-Me), 1.13 (s, 3H, 29-Me),

1.02 (d, J = 6.4 Hz, 3H, 21-Me), 0.92 (s, 3H, 30-Me), 0.85 (s, 3H, 18-Me); ESI-MS 963.94 $(M+H)^+$, 961.69 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

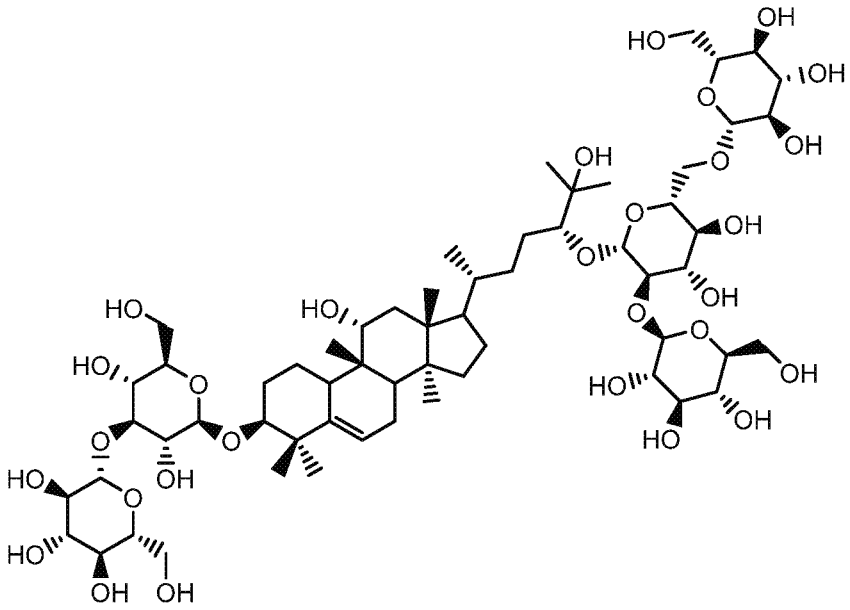
Example 27: Enzymatic production of Compound 16



[0404] To a 250mL Erlenmeyer flask, 500mg of mogroside II_A, 100mL of 0.1M sodium acetate buffer pH 5, 20mL of Toruzyme from Novozymes and 5g of soluble starch were added and shook the flask at 200 rpm, 50°C for 1 day. The progress of the reaction was monitored periodically by LC-MS analysis. After 24 hours, the unreacted enzyme and excess starch from the reaction mixtures was removed by the incubation at 80°C for 30 min followed by centrifugation for 10 min at 4000 rpm and removed the precipitate. The supernatant was loaded onto 60g C18 SPE cartridge and fractionated using 5/35/70/100 MeOH: H_2O step gradient. The desired compound was eluted in 70% methanol fraction. The 70% SPE Fraction was further purified on PF-HPLC using reversed phase conditions with an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 48 tubes (12 fractions/plate, 4 plates per run) at 15 mL/fraction. Based on UPLC analysis, Fraction 31 contained the desired peak with the desired purity and were pooled and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 1 mL of water and lyophilized for 3 days to get 21mg of white fluffy solid with ~85% purity.

[0405] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.82 (d, J = 3.9 Hz, 1H), 5.58 (m, 1H), 5.40 (m, 1H, merged with HDO peak), 5.32 (d, J = 3.8 Hz, 1H), 4.87 (d, J = 7.5 Hz, 1H), 3.69 (m, 2H), 1.46 (s, 3H), 1.37 (s, 3H), 1.33 (s, 3H), 1.32 (s, 3H), 1.13 (s, 3H), 1.02 (d, J = 6.4 Hz, 3H), 0.93 (s, 3H), 0.85 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.16, 119.07, 105.05, 103.55, 103.17, 99.75, 91.88, 82.06, 81.62, 78.61, 78.38, 78.07, 77.90, 76.23, 75.70, 75.53, 75.13, 75.06, 74.50, 74.28, 73.36, 72.67, 72.43, 72.17, 71.63, 71.42, 67.93, 63.25, 62.56, 61.63, 50.70, 49.70, 47.41, 43.58, 42.26, 40.90, 40.16, 36.73, 36.50, 34.54, 33.51, 30.63, 28.97, 28.56, 27.26, 26.78, 26.72, 26.22, 25.89, 25.04, 24.62, 19.49, 19.10, 17.06; ESI-MS 1123.89 $(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 28: Enzymatic production of Compound 17

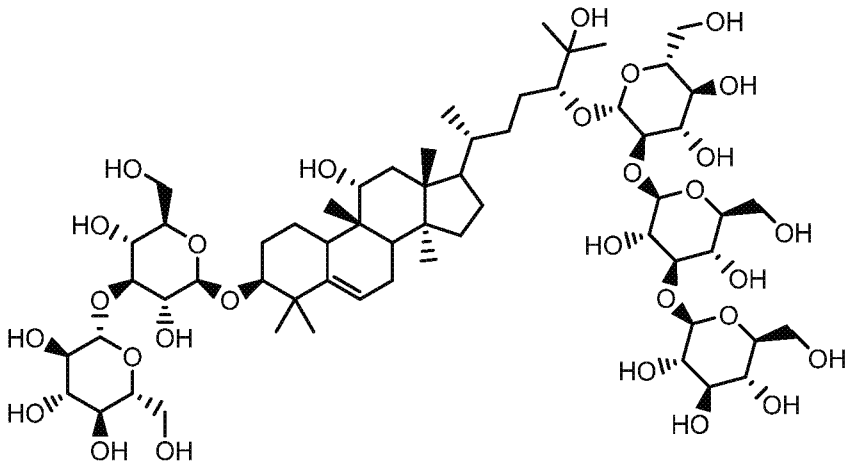


[0406] To a 50 mL falcon tube, 11 ml of deionized water, 1.5mL of pH 7.52 1M Tris-HCl, 0.03g UDP (Carbosynth), 1.6g sucrose, and 300µl sucrose synthase Sus1 (0.9mg/ml crude extract, pQE1, XL1-gold) were added and shook the tube at 30°C, 200rpm in the incubator. After 24 hours, 150 mg of Siamenoside I, 15µl BSA (Bovine serum albumin, 10mg/ml), 15µl $MgCl_2$, 400µl UGT76G1 (0.9mg/ml crude extract, pQE1, XL1-gold) were added to the above flask and continued shaking for another 24 hours at 30°C. The progress of the reaction was monitored periodically by LC-MS. After 24hrs (total 48hrs), the unreacted enzyme was denatured by

heating at 80 °C for about 30 minutes with stirring (500 rpm). The reaction mixture was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 0.22 micron PES. The filtered supernatant was dried under reduced pressure and fractionated on SPE C18 60g column using standard 5/35/70/100 MeOH: H_2O step gradient. The desired product was eluted in 70% MeOH fraction and further purified on Fluoro-phenyl 3x10 cm column using an A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by 95% B wash and re-equilibration (total run time = 45 minutes). Each run was collected in 36 fractions (12 fractions/plate, 3 plates per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for ~ 3 days to get 71 mg of white fluffy solid with about 95% purity.

[0407] ^{1}H NMR (400 MHz, Pyridine-d_5+ D_2O), selected signals: δ 5.51 (d, J = 7.9 Hz, 1H, G2-1H), 5.44 (m, 1H, 6-H, merged with HDO peak), 5.31 (d, J = 7.8 Hz, 1H, G5-1H), 4.85 (dd, J = 7.5, 2.5 Hz, 2H, G1-1H), 4.79 (d, J = 8.0 Hz, 1H, G3-1H), 4.77 (d, J = 8.6 Hz, 1H, G4-1H), 3.71 (d, J = 9.1 Hz, 1H, 24-H), 3.58 (s, 1H, 3-H), 1.48 (s, 3H, 28-Me), 1.42 (s, 3H, 26-Me), 1.29 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.10 (s, 3H, 29-Me), 1.03 (d, J = 6.3 Hz, 3H, 21-Me), 0.89 (s, 3H, 30-Me), 0.86 (s, 3H, 18-Me); ESI-MS 1309.65 $(M+Na)^+$, 1285.72$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 29: Enzymatic production of Compound 18

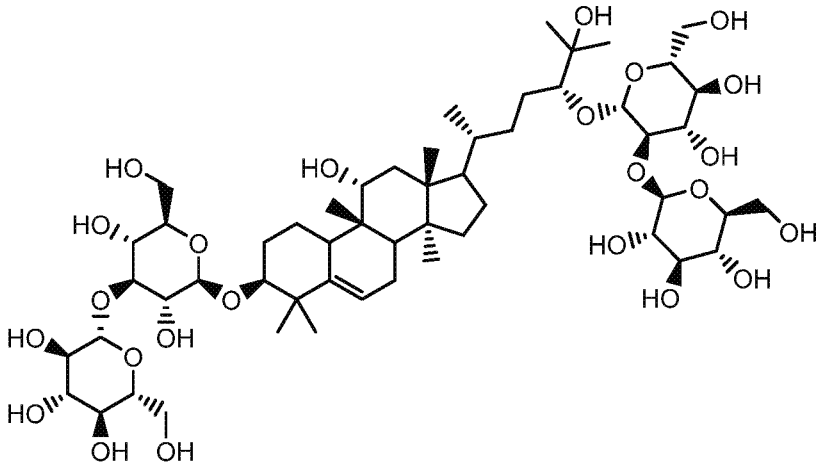


[0408] To a 250 mL shake flask, 37 mL of deionized water, 5 mL of pH 7.52 1M Tris-HCl, 0.1g UDP (Carbosynth), 5.2g sucrose, and 1 mL sucrose synthase Sus1 (0.9mg/ml

crude extract, pQE1, XL1-gold), 500 mg of mogroside III_E (10mM), 50 mL BSA (Bovine serum albumin, 10mg/ml), 50 mL $MgCl_2$ (1M), 1.3 mL UGT76G1 (0.9mg/ml crude extract, pQE1, XL1-gold) were added and shook the flask at 30°C, 200rpm in the incubator. The progress of the reaction was monitored periodically by LC-MS. After 30hrs, the unreacted enzyme was denatured by heating at 80 °C for about 30 minutes with stirring (500 rpm). The reaction mixture was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 0.22 micron PES. The supernatant was dried under reduced pressure and fractionated on SPE C18 60g column using standard MeOH: H_2O step-gradient 5/35/70/100. The desired product was eluted in 70% MeOH fraction (982 mg) and further purified on HPLC using Hilic column (3 x 10 cm, XBridge amide column, 5um, Waters) by 5 runs injecting ~200mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. FractionFractions 4 and 5 eluted with the mixture of MIV isomers and further purified using a different method. The desired mogroside V isomer was eluted in FractionFractions 8 &9. These two FractionFractions were pooled, concentrated under reduced pressure and re-suspended/dissolved in 5 mL of H_2O and lyophilized for about 3 days to get 366 mg of white fluffy solid with ≥ 95% purity.

[0409] ^1H NMR (400 MHz, Pyridine-d_5+ D_2O), selected signals: δ 5.55 (d, J = 7.9 Hz, 1H, G2-1H), 5.44 (m, 1H, 6-H, merged with HDO peak), 5.32 (d, J = 8.0 Hz, 1H, G4-1H), 5.29 (d, J = 7.9 Hz, 1H, G5-1H), 4.99 (d, J = 7.1 Hz, 1H, G1-1H), 4.78 (d, J = 7.8 Hz, 1H, G3-1H), 3.89 (m, 1H, 24-H), 3.60 (s, 1H, 3-H), 1.48 (s, 3H, 28-Me), 1.43 (s, 3H, 26-Me), 1.39 (s, 3H, 27-Me), 1.25 (s, 3H, 19-Me), 1.08 (s, 3H, 29-Me), 1.01 (d, J = 6.2 Hz, 3H, 21-Me), 0.83 (s, 3H, 30-Me), 0.82 (s, 3H, 18-Me); ESI-MS 1285.91$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 30: Enzymatic production of Compound 19

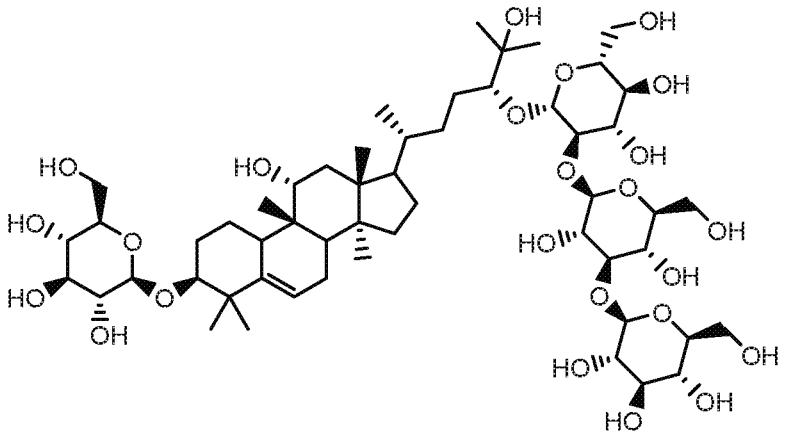


[0410] To a 250 mL shake flask, 37 mL of deionized water, 5 mL of pH 7.52 1M Tris-HCl, 0.1g UDP (Carbosynth), 5.2g sucrose, and 1 mL sucrose synthase Sus1 (0.9mg/ml crude extract, pQE1, XL1-gold), 1000 mg of mogroside III_E (20mM), 50 mL BSA (Bovine serum albumin, 10mg/ml), 50 mL $MgCl_2$ (1M), 1.3 mL UGT76G1 (0.9mg/ml crude extract, pQE1, XL1-gold) were added and shook the flask at 30°C, 200rpm in the incubator. The progress of the reaction was monitored periodically by LC-MS. After ~30hrs, the unreacted enzyme was denatured by heating at 80 °C for about 30 minutes with stirring (500 rpm). The reaction mixture was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 0.22 micron PES. The filtrate was dried under reduced pressure and fractionated on SPE C18 60g column using standard MeOH: H_2O step-gradient 5/35/70/100. Mogroside IV and V isomers were eluted in 70% MeOH fraction (982 mg) and further purified on HPLC using Hilic column (3 x 10 cm, XBridge amide column, 5um, Waters) by 5 runs injecting ~200mg each time with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Mogroside V isomer was eluted in FractionFractions 8 &9. Whereas, the mixture of mogroside IV isomers were eluted in FractionFractions 4 and 5. These two FractionFractions were pooled and re-purified using Fluoro-phenyl 3x10 column, A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by a wash at 95% B and re-equilibration (total run time = 45 minutes). Each run was collected in 24 fractions (12 fractions/plate, 3 plates per run) at 30mL/fraction. The

minor MIV isomer was eluted in Fraction 7 and the desired major MIV isomer was eluted in FractionFractions 4 and 5. These two FractionFractions were pooled, concentrated under reduced pressure and re-suspended/dissolved in 3 mL of H_2O and lyophilized for about 3 days to get 91.7 mg of white fluffy solid with ≥ 95% purity.

[0411] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ5.44 (m, 1H, 6-H, merged with HDO peak), 5.36 (d, J = 7.8 Hz, 1H, G2-1H), 5.31 (d, J = 7.9 Hz, 1H, G4-1H), 5.00 (d, J = 7.7 Hz, 1H, G1-1H), 4.78 (d, J = 7.8 Hz, 1H, G3-1H), 3.87 (d, J = 7.9 Hz, 1H, 24-H), 3.59 (s, 1H, 3-H), 1.48 (s, 3H, 28-Me), 1.45 (s, 3H, 26-Me), 1.41 (s, 3H, 27-Me), 1.26 (s, 3H, 19-Me), 1.10 (s, 3H, 29-Me), 1.01 (d, J = 6.3 Hz, 3H, 21-Me), 0.83 (s, 3H, 30-Me), 0.82 (s, 3H, 18-Me); ESI-MS 1125.68 $(MH)^+$, 1123.74$(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

Example 31: Enzymatic production of Compound 20

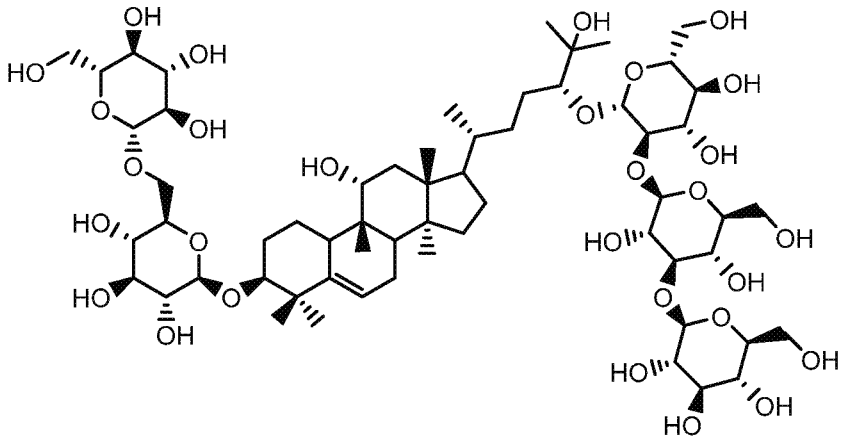


[0412] To a 250 mL shake flask, 36 mL of deionized water, 5 mL of pH 7.52 1M Tris-HCl, 0.1g UDP (Carbosynth), 5.2g sucrose, and 2.7 ml sucrose synthase Sus1 (0.37mg/ml crude extract, pQE1, XL1-gold), 500 mg of mogroside III_E , 50 mL BSA (Bovine serum albumin, 10mg/ml), 50 mL $MgCl_2$ (1M), 1.4 ml UGT76G1 (0.7mg/ml crude extract, pQE1, XL1-gold) were added and shook the flask at 30°C, 200rpm in the incubator. The progress of the reaction was monitored periodically by LC-MS. The reaction was repeated with another 500 mg of mogroside III_E using the same reaction conditions. After ~24hrs, the unreacted enzyme from both flasks was denatured by heating at 80 °C for about 30 minutes with stirring (500 rpm). The reaction mixture was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 0.22 micron PES. The combined filtrate from two reactions was dried under reduced pressure

and fractionated on SPE C18 60g column using standard MeOH: H_2O step-gradient 5/35/70/100. The desired mogroside IV and V isomers were eluted in 70% MeOH fraction and purified on Fluoro-phenyl 3x10 cm column with an A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by a wash at 95% B and re-equilibration(total run time = 45 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. FractionFractions 3 to 5 were eluted as mixture of major MV and MIV isomers and FractionFractions 6 and 7 eluted with the desired product with about 80% purity. The pooled FractionFractions 6 & 7 were re-purified on HILIC 3x10 cm column with an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fraction 6 contained the desired product, was pooled, concentrated under reduced pressure and re-suspended/dissolved in 3 mL of H_2O and lyophilized for about 3 days to get 70 mg of white fluffy solid with ≥ 95% purity.

[0413] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.56 (d, J = 7.9 Hz, 1H, G2-1H), 5.43 (m, 1H, 6-H, merged with HDO peak), 5.29 (d, J = 7.9 Hz, 1H, G4-1H,), 4.99 (d, J = 7.0 Hz, 1H, G1-1H), 4.83 (d, J = 7.8 Hz, 1H, G3-1H), 3.63 (s, 1H, 3-H), 1.50 (s, 3H, 28-Me), 1.44 (s, 3H, 26-Me), 1.39 (s, 3H, 27-Me), 1.27 (s, 3H, 19-Me), 1.09 (s, 3H, 29-Me), 1.02 (d, J = 6.3 Hz, 3H, 21-Me), 0.83 (brs, 6H, 18 & 30-Me); ESI-MS 1125.96 $(MH)^+$, 1123.91$(M-H)^-$; Molecular formula, $C_{54}H_{92}O_{24}$.

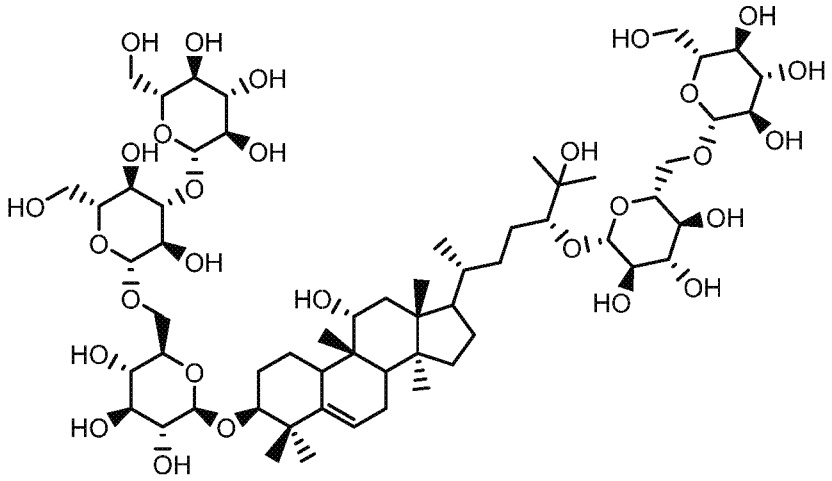
Example 32: Enzymatic production of Compound 21



[0414] To a 50 mL falcon tube, 8 ml of deionized water, 1.5mL of pH 7.52 1M Tris-HCl, 0.03g UDP (Carbosynth), 1.6g sucrose, and 2.7ml sucrose synthase Sus1 (0.37mg/ml crude extract, pQE1, XL1-gold), 1.4 ml UGT76G1 (0.7mg/ml crude extract, pQE1, XL1-gold), 15µl BSA (10mg/ml), 15µl $MgCl_2$ (1M), 150 mg of Mogroside IV_E were added and shook the tube at 30°C, 200rpm in the incubator. The progress of the reaction was monitored periodically by LC-MS. After 48hrs, the reaction was quenched by heating at 80 °C for about 30 minutes with stirring (500 rpm) to denature the enzyme. The reaction mixture was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 0.22 micron PES. The supernatant was dried under reduced pressure and fractionated on SPE C18 60g column using standard MeOH: H_2O step-gradient 5/35/70/100. The desired product was eluted in 70% MeOH fraction and further purified on Hilic 3x10 cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for ~ 3 days to get 108 mg of white fluffy solid with about 95% purity.

[0415] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.55 (d, J = 7.9 Hz, 1H, G2-1H), 5.42 (m, 1H, 6-H, merged with HDO peak), 5.28 (d, J = 7.9 Hz, 1H, G5-1H), 5.11 (d, J = 7.8 Hz, 1H, G4-1H), 4.99 (d, J = 7.0 Hz, 1H, G1-1H), 4.77 (d, J = 7.8 Hz, 1H, G3-1H), 3.65 (d, J = 2.8 Hz, 1H, 3-H), 1.46 (s, 3H, 28-Me), 1.43 (s, 3H, 26-Me), 1.39 (s, 3H, 27-Me), 1.28 (s, 3H, 19-Me), 1.05 (s, 3H, 29-Me), 1.03 (d, J = 6.3 Hz, 3H, 21-Me), 0.82 (s, 6H, 18 & 30-Me); ESI-MS 1287.76 $(MH)^+$, 1285.95$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

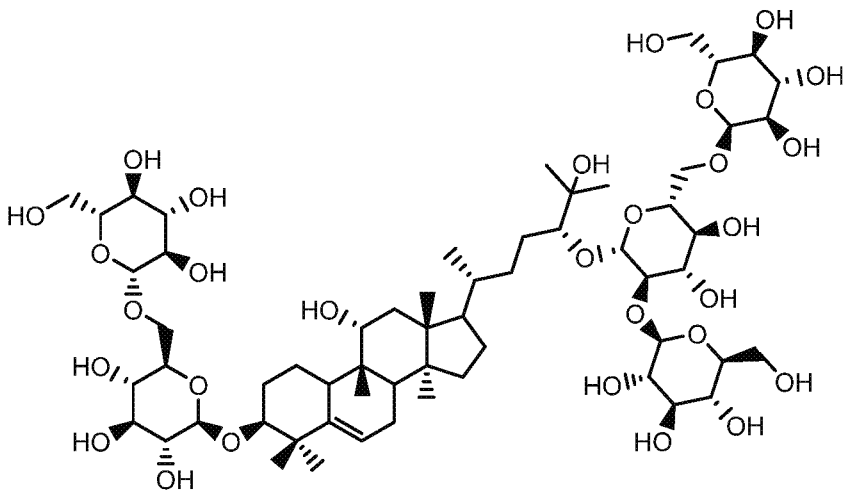
Example 33: Enzymatic production of Compound 22



[0416] To a 50 mL falcon tube, 8 ml of deionized water, 1.5mL of pH 7.52 1M Tris-HCl, 0.03g UDP (Carbosynth), 1.6g sucrose, 2.7ml sucrose synthase Sus1 (0.37mg/ml crude extract, pQE1, XL1-gold), 1.4 ml UGT76G1 (0.7mg/ml crude extract, pQE1, XL1-gold), 15µl BSA (10mg/ml), 15µl $MgCl_2$ (1M), 150 mg of Mogroside IVA were added and shook the tube at 30°C, 200rpm in the incubator. The progress of the reaction was monitored periodically by LC-MS. 24 hrs after the addition of Mogroside IVA, the reaction was stopped by heating at 80 °C for 30 minutes with stirring (500 rpm). The reaction was then centrifuged (4000 rpm for 10 min, Eppendorf) and filtered through a 250 ml, 0.22 micron PES. The filtrate was loaded onto a 60g C18 column and fractionated using 5/35/70/100 MeOH: H_2O step gradient. The desired product was eluted in 70% MeOH fraction and further purified on HILIC column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fraction 6 and 7 contained the desired product with 80% purity. These two FractionFractions from all the runs were pooled and re-purified on Fluoro-phenyl 3 x 10 cm column, A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by a wash at 95% B and re-equilibration(total run time = 45 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 1 mL of water and lyophilized for ~ 3 days to get 18 mg of white fluffy solid with about 95% purity.

[0417] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.44 (m, 1H, 6-H, merged with HDO peak), 5.19 (dd, J = 7.8, 1.9 Hz, 1H, G5-1H), 5.10 (d, J = 7.8 Hz, 1H, G4-1H), 4.95 (d, J = 7.7 Hz, 1H, G2-1H), 4.82 (d, J = 7.9 Hz, 1H, G1-1H), 4.77 (d, J = 7.8 Hz, 1H, G3-1H), 3.70 (m, 2H, 24 and 3-H), 1.47 (s, 3H, 28-Me), 1.35 (s, 3H, 26-Me), 1.29 (s, 6H, 27 and 19-Me), 1.07 (s, 3H, 29-Me), 0.91 (d, J = 6.2 Hz, 3H, 21-Me), 0.85 (s, 3H, 30-Me), 0.77 (s, 3H, 18-Me); ESI-MS 1287.76 $(MH)^+$, 1285.95$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Example 34: Isolation and enzymatic production of Compound 23



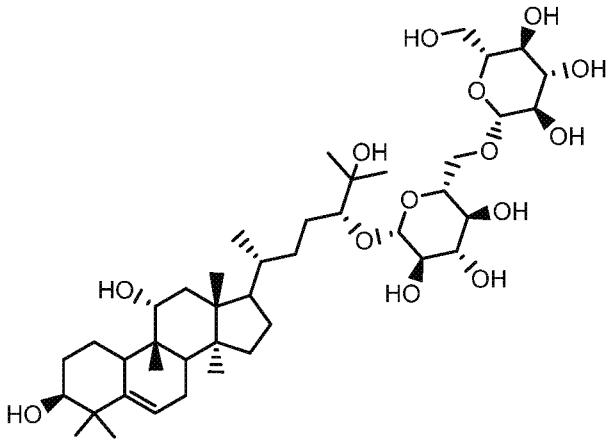
[0418] **Enzymatic:** To a 250 mL shake flask, 5 mL of pH 5.5 1M sodium acetate buffer, 10g sucrose, 10 ml dextransucrase (DexT,1mg/ml crude extract, pET23a, BL21-Codon Plus-RIL, grown in 2X YT), 300mg of Mogroside IV_E, 35 mL of water were added and shook the flask at 200rpm, 30°C. The progress of the reaction was monitored periodically by LC-MS. After ~24hrs, 60uL of dextranase (Amano) was added to the reaction (hydrolyze the hyper glycosylated mogroside IV_E isomers to the desired mogroside V isomer) and shook at 200rpm, 40°C. After ~18hrs, the reaction mixture was heated to 80 °C for ~ 30 minutes while shaking at 200rpm, then it was centrifuged (4000 rpm for 10 min, Eppendorf) and the supernatant was filtered through a 250 ml, 0.22 micron PES. The supernatant was loaded onto a 60g C18 SPE column and fractionated using 5/35/70/100/5 MeOH: H_2O gradient. The desired product was eluted in 70% MeOH fraction along with other minor isomers and unreacted MIV_E. This Fraction was further purified on HILIC column (3 x 10 cm, XBridge amide column, 5um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26

minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. The desired compound was eluted in fractions 13 and 14. These two FractionFractions were pooled, concentrated under reduced pressure and re-suspended/dissolved in 3 mL of H_2O and lyophilized for about 2 days to get 85 mg of white fluffy solid with ≥ 95% purity.

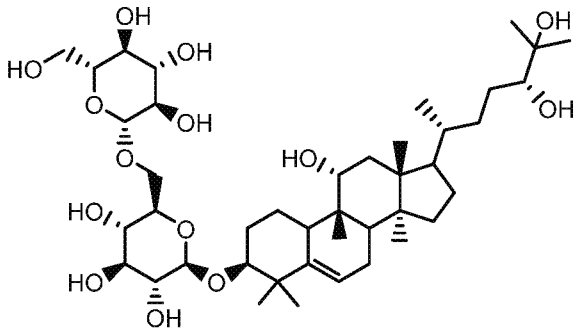
[0419] **Isolation:** 180 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder; sample ID: 50755234) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 360 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes) in two different batches of 80 and 100g. Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in frxn 15 along with other isomers. The pooled frxn 15 from two batches (916 and 1913 mg) was further fractionated in 28 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30.3 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 9 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition of 2 mL of H_2O and lyophilized the sample for 2 days to get 190 mg of fluffy white solid with ~90% purity.

[0420] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.43 (m, 1H, 6-H, merged with HDO peak), 5.40 (m, 1H, G2-1H, merged with HDO peak), 5.38 (d, J = 3.7 Hz, 1H, G5-1H), 5.10 (d, J = 7.8 Hz, 1H, G4-1H), 4.87 (d, J = 7.7 Hz, 1H, G1-1H), 4.76 (d, J = 7.8 Hz, 1H, G3-1H), 3.72 (d, J = 8.2 Hz, 1H, 24-H), 3.64 (s, 1H, 3-H), 1.46 (s, 3H, 28-Me), 1.42 (s, 3H, 26-Me), 1.30 (s, 3H, 27-Me), 1.29 (s, 3H, 19-Me), 1.06 (s, 3H, 29-Me), 1.03 (d, J = 6.3 Hz, 3H, 21-Me), 0.86 (s, 3H, 30-Me), 0.83 (s, 3H, 18-Me); ESI-MS 1287.9 $(MH)^+$, 1285.96 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Examples 35 and 36: Enzymatic production of Mogroside II_{A1} and Mogroside II_{A2} from Fungal lactase



Mogroside II_{A1}



Mogroside II_{A2}

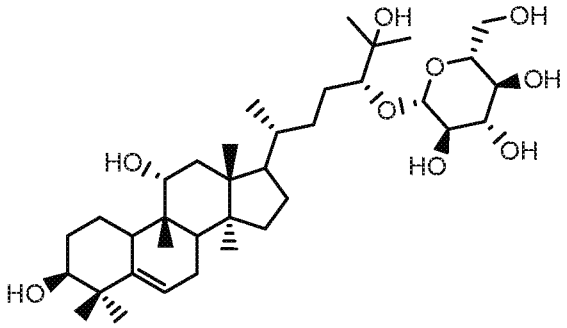
[0421] To a 250 mL round bottom flask, 1g of mogroside V, 100mL of 0.1M sodium acetate buffer pH 5 and 500mg of Fungal Lactase were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 72 hours, the reaction was stopped by heating at 80°C for ~30 minutes and centrifuged at 4000 rpm for 10 minutes. The supernatant was loaded onto a 60g C18 SPE column and fractionated using 5/35/70/100/5 MeOH: H_2O gradient. The desired products were eluted in 70 and 100% MeOH fractions. These two FractionFractions were further purified on HILIC column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 90 to 50% B over 26 minutes, followed by re-equilibration at 90% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. The desired compounds were eluted in FractionFractions 12 and 15. These two FractionFractions from different runs were pooled separately and characterized as Mogroside II_{A1} and Mogroside II_{A2} by 1D and 2D NMR and LC-MS data.

[0422] Mogroside II_{A1}: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.60 (d, J = 6.0 Hz, 1H), 4.86 (d, J = 7.9 Hz, 2H), 4.79 (d, J = 7.7 Hz, 1H), 3.73 (dd, J = 6.2, 3.6 Hz, 2H), 1.39 (d, J = 1.6 Hz, 6H), 1.34 (s, 3H), 1.29 (s, 3H), 1.15 (s, 3H), 0.90 (d, J = 6.4 Hz, 3H), 0.87 (s, 3H), 0.84 (s, 3H); ESI-MS 801.68 $(MH)^+$, 799.74 $(M\text{-}H)^-$, Molecular formula, $C_{42}H_{72}O_{14}$.

[0423] Mogroside II_{A2}: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.45 (m, 1H, merged with HDO peak), 5.10 (d, J = 7.8 Hz, 1H), 4.77 (d, J = 7.8 Hz, 1H), 3.75

(dd, J = 9.0, 2.5 Hz, 1H), 3.67 (d, J = 2.9 Hz, 1H), 1.52 (s, 3H), 1.49 (s, 2H), 1.47 (s, 3H), 1.28 (s, 3H), 1.07 (s, 3H), 0.98 (d, J = 6.1 Hz, 3H), 0.83 (s, 3H), 0.81 (s, 3H); ESI-MS 801.64 $(MH)^+$, 799.65 $(M-H)^-$, Molecular formula, $C_{42}H_{72}O_{14}$.

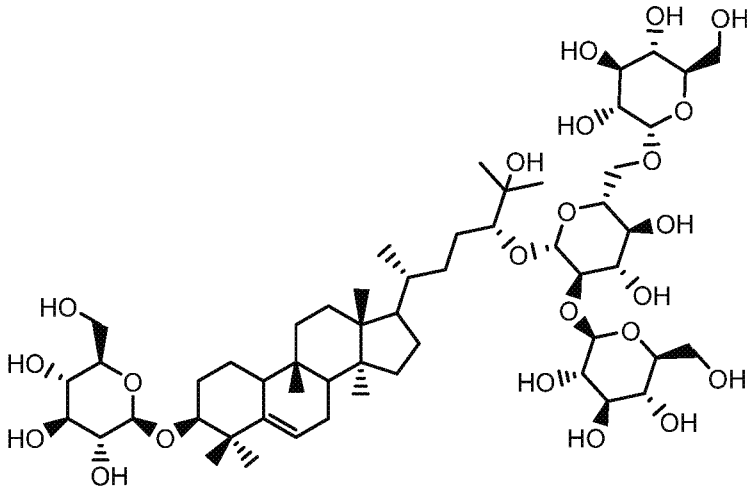
Example 37: Enzymatic production of Mogroside $_{IA}$ from Viscozyme



[0424] To a 100 mL round bottom flask, 300mg of Mogroside IIA, 25mL of 0.1M sodium acetate buffer pH 5 and 200uL of Viscozyme (Novozymes) were added and stirred the flask at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24 hours the reaction was stopped by heating at 80°C for 30 minutes and centrifuged at 4000rpm for 10 minutes. The supernatant was dried under reduced pressure and purified on Fluoro-phenyl 3x10cm column with an A/B gradient (A = H_2O, B = acetonitrile) of 20 to 60% B over 25 minutes, followed by a wash at 95% B and re-equilibration (total run time = 31 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 1 mL of water and lyophilized for ~ 2 days to get 30 mg of white fluffy solid with about 90% purity.

[0425] ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.61 (d, J = 6.0 Hz, 1H), 4.97 (d, J = 7.8 Hz, 1H), 3.86 (m, 1H), 3.73 (d, J = 2.8 Hz, 1H), 1.42 (s, 3H), 1.40 (s, 3H), 1.38 (s, 3H), 1.34 (s, 3H), 1.16 (s, 3H), 0.94 (d, J = 6.4 Hz, 3H), 0.87 (s, 3H), 0.85 (s, 3H); ESI-MS 639.39 $(MH)^+$, 637.58 $(M-H)^-$, Molecular formula, $C_{36}H_{62}O_9$.

Example 38: Enzymatic production of Compound 24

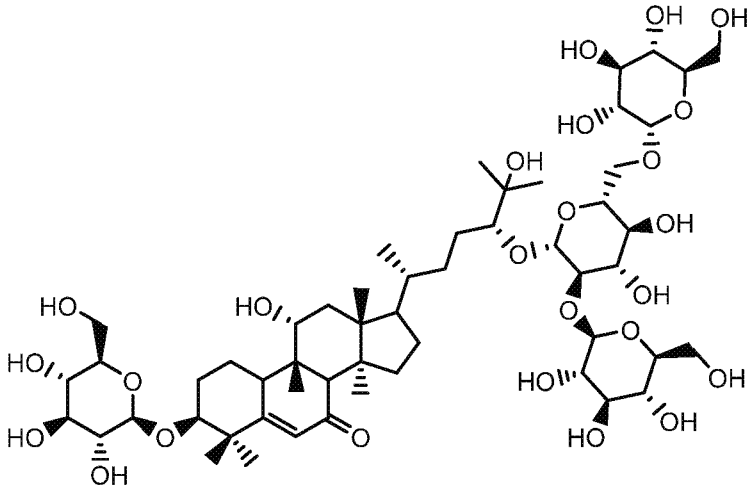


[0426] To a 3L shake flask, 1L water, 150 mL of pH 5.5 1M sodium acetate buffer, 300g sucrose, 50 ml dextransucrase DexT (1mg/ml crude extract, pET23a, BL21-Codon Plus-RIL, grown in 2X YT), 10g of mogroside III_E were added and shook the flask at 200rpm, 30°C. The progress of the reaction was monitored periodically by LC-MS. After 72hrs, the reaction mixture was treated with 1500uL of dextranase (Amano). After 24 hrs the reaction was stopped by heating at 80°C and centrifuged at 10,000 rpm for 5 minutes and the supernatant was filtered and stored at 4°C. The reaction was repeated 3 more times using the same conditions to raise the material. Each flask (10g) was loaded onto a 400g C18 SPE column and fractionated using 5/25/50/75/100 MeOH: H_2O step gradient. 1350ml per fraction spread out over 6 flasks. The desired product was eluted in the 4th flask of the 75% MeOH fraction and further purified on fluoro-phenyl 3x10 cm column using an A/B gradient (A = H_2O, B = acetonitrile) of 15 to 30% B over 35 minutes, followed by a wash at 95% B and re-equilibration(total run time = 45 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 1 mL of water and lyophilized for ~ 2 days to get 25 mg of white fluffy solid with about 90% purity.

[0427] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.52 (1H, m, merged with HDO), 5.48 (m, 1H), 5.44 (d, J = 3.7 Hz, 1H), 4.95 (d, J = 7.8 Hz, 1H), 4.89 (d, J = 7.8 Hz, 1H), 3.81 (m, 1H), 3.68 (d, J = 3.3 Hz, 1H), 1.54 (s, 3H), 1.50 (s, 3H), 1.39 (s, 3H), 1.09 (d, J = 8.4 Hz, 6H), 0.87 (s, 3H), 0.83 (s, 3H), 0.81 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 +

D_2O) δ 143.23, 118.86, 107.17, 105.20, 103.35, 99.81, 91.39, 87.71, 81.89, 78.50, 78.32, 78.07, 75.68, 75.31, 75.03, 74.13, 73.82, 72.73, 72.14, 72.05, 71.62, 71.45, 67.61, 63.24, 62.82, 62.58, 50.81, 49.37, 46.46, 46.44, 43.78, 41.77, 38.51, 36.50, 35.03, 34.60, 33.58, 32.58, 30.75, 29.00, 28.38, 28.24, 26.74, 25.92, 24.96, 24.55, 22.72, 19.22, 18.11, 15.68; ESI-MS 1109.77 $(MH)^+$, 1107.73 $(M-H)^-$, Molecular formula, $C_{54}H_{92}O_{23}$.

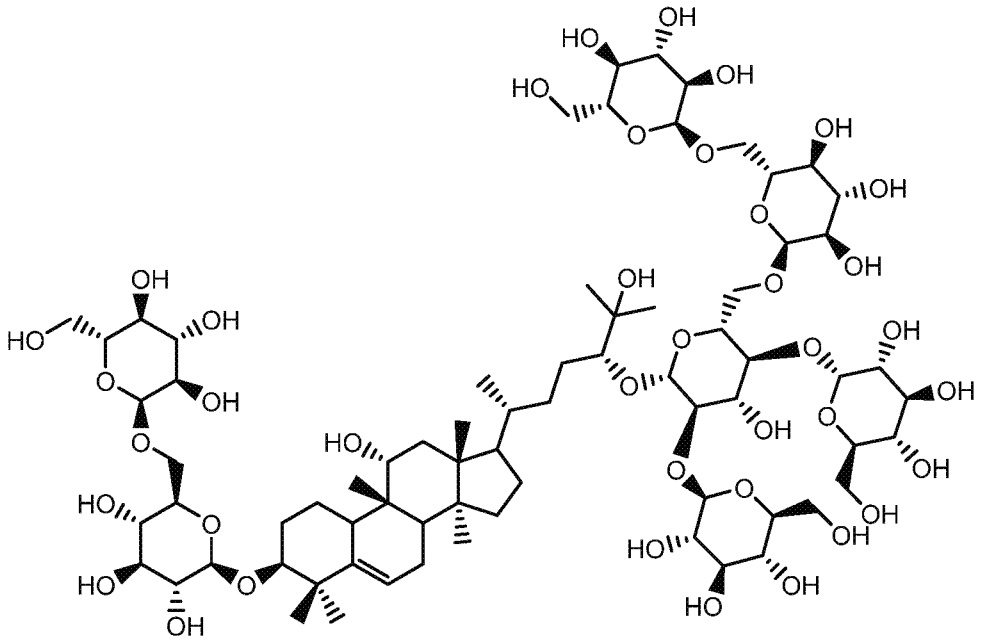
Example 39: Enzymatic production of Compound 25



[0428] To a 1L flask, 270 mL water, 40 mL of pH 5.5 1M sodium acetate buffer, 80g sucrose, 8 mL dextransucrase DexT (1mg/mL crude extract, pET23a, BL21-Codon Plus-RIL, grown in 2X YT and TB), 2g of Mogroside III_E were added and shook the flask at 30°C, 200 rpm. The progress of the reaction was monitored periodically by LC-MS. After 72hrs, the reaction was treated with 300uL of dextranase (Amano). After 24 hrs the reaction was quenched by heating at 80°C and centrifuged at 10,000rpm for 5 minutes and the supernatant was filtered and fractionated on 60g C18 SPE column using 5/25/50/50/75/100 MeOH: H_2O step gradient. The desired product was eluted in 50% MeOH fraction and further purified on Hilic 3x10cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fractions eluted with the desired product were pooled, dried under reduced pressure and re-suspended/dissolved in 1 mL of water and lyophilized for ~ 2 days to get 11.5 mg of white fluffy solid with about 90% purity.

[0429] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 6.24 (d, J = 1.5 Hz, 1H), 5.5 (m, 1H, merged with HDO peak), 5.36 (d, J = 3.7 Hz, 1H), 4.86 (d, J = 7.7 Hz, 1H), 4.80 (d, J = 7.8 Hz, 1H), 3.70 (d, J = 5.9 Hz, 2H), 1.50 (s, 3H), 1.41 (s, 3H), 1.29 (s, 3H), 1.21 (s, 3H), 1.17 (s, 3H), 1.02 (d, J = 6.2 Hz, 3H), 0.93 (s, 3H), 0.84 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 200.60, 170.03, 123.51, 105.47, 103.65, 102.12, 98.40, 90.39, 86.54, 77.13, 76.93, 76.64, 75.37, 74.33, 74.24, 73.78, 73.61, 72.72, 72.52, 72.41, 71.30, 70.73, 70.63, 70.06, 66.21, 61.78, 61.29, 61.15, 58.64, 49.13, 47.22, 45.65, 42.53, 39.20, 39.01, 37.82, 35.55, 33.10, 32.12, 27.96, 27.46, 27.19, 26.15, 25.73, 25.27, 25.21, 24.16, 23.45, 18.30, 17.60, 15.36; ESI-MS 1139.47 $(MH)^+$, 1137.85 $(M-H)^-$, Molecular formula, $C_{54}H_{90}O_{25}$.

Example 40: Enzymatic production of Compound 26

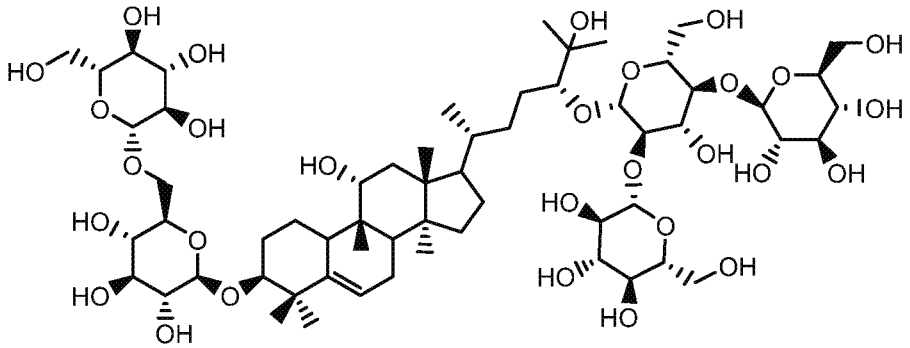


[0430] To a 1L flask, 270 mL water, 40 mL of pH 5.5 1M sodium acetate buffer, 80g sucrose, 8 mL dextransucrase DexT (1mg/mL crude extract, pET23a, BL21-Codon Plus-RIL, grown in 2X YT and TB), 2g of Mogroside III_E were added and shook the flask at 30°C, 200 rpm. The progress of the reaction was monitored periodically by LC-MS. After 72hrs, the reaction was treated with 300uL of dextranase (Amano). After 24 hrs the reaction was quenched by heating at 80°C and centrifuged at 10,000rpm for 5 minutes and the supernatant was filtered and fractionated on 60g C18 SPE column using 5/35/70/100 MeOH: H_2O step gradient. The

desired product was eluted in 70% MeOH fraction and purified on Hilic 3x10cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fraction 20 contained the desired product and was pooled with ~ 80% purity. It was re-purified on modified Hilic method using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 26 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fractions eluted with the desired product with desired purity were pooled, dried under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for ~ 2 days to get 77 mg of white fluffy solid.

[0431] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.73 (d, J = 4.0 Hz, 1H), 5.44 (m , 2H, merged with HDO peak), 5.36 (d, J = 3.7 Hz, 1H), 5.32 (d, J = 3.7 Hz, 1H), 5.28 (d, J = 3.7 Hz, 1H), 4.83 (d, J = 6.5 Hz, 1H), 4.81 (m,, 1H), 3.70 (d, J = 8.3 Hz, 1H), 3.61 (s, 1H), 1.49 (s, 3H), 1.40 (s, 3H), 1.28 (d, J = 2.7 Hz, 5H), 1.09 (s, 3H), 1.01 (d, J = 6.2 Hz, 3H), 0.87 (s, 2H), 0.84 (s, 2H); ^{13}C NMR (101 MHz Pyridine-d_5 + D_2O) δ 144.29, 118.50, 107.17, 105.18, 103.49, 101.95, 99.78, 99.73, 99.63, 91.69, 87.91, 85.40, 81.83, 78.54, 78.33, 78.09, 78.00, 77.87, 75.73, 75.43, 75.31, 74.29, 74.14, 73.57, 73.50, 72.71, 72.20, 71.95, 71.83, 71.68, 71.59, 71.45, 71.16, 67.51, 67.44, 67.37, 63.29, 62.77, 62.52, 62.03, 50.77, 49.68, 47.41, 43.52, 42.38, 40.89, 40.09, 36.74, 36.56, 34.55, 33.50, 29.50, 28.55, 27.68, 26.87, 26.73, 26.32, 24.92, 24.57, 19.47, 19.12, 17.06; ESI-MS 1612.44 $(MH)^+$, 1610.4 $(M-H)^-$, Molecular formula, $C_{72}H_{122}O_{39}$.

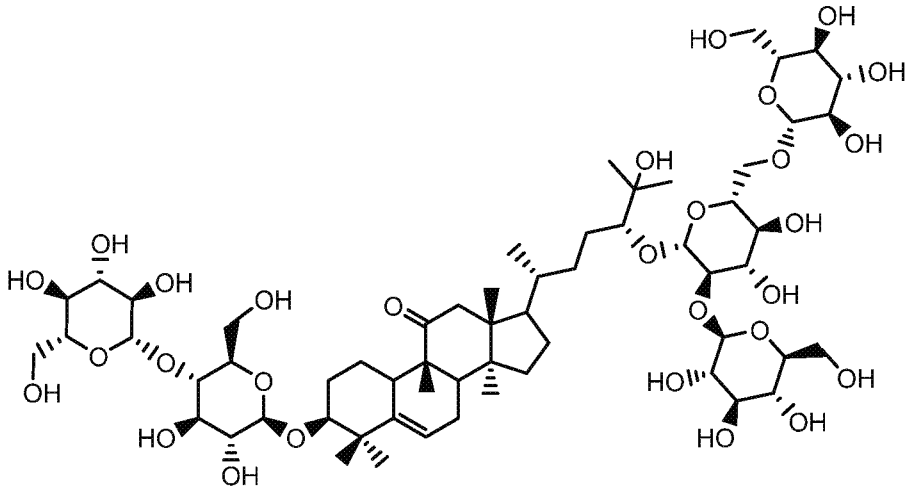
Example 41: Isolation of Compound 27



[0432] 100 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 200 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 22 along with other isomers. The pooled Fraction 22 (947 mg) was further fractionated in 24 runs on Hilic HPLC 3 X 10 cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. The desired compound was eluted in Fraction 12 with about 60% purity. This fraction was re-purified using the above Hilic method and the fractions containing the desired peak with the desired purity were pooled and dried under reduced pressure. The pure compound was re-suspended/dissolved in 1 mL of water and lyophilized to get 7.5 mg of fluffy white solid with ~ 90% purity.

[0433] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.48 (m, 1H, merged with HDO peak), 5.35 (d, J = 7.9 Hz, 1H), 5.24 (d, J = 7.8 Hz, 1H), 5.04 (d, J = 7.8 Hz, 1H), 4.97 (d, J = 7.8 Hz, 1H), 4.82 (d, J = 7.8 Hz, 1H), 3.61 (s, 1H), 1.48 (s, 3H), 1.42 (s, 3H), 1.37 (s, 3H), 1.27 (s, 3H), 1.08 (s, 3H), 1.01 (d, J = 6.2 Hz, 3H), 0.82 (brs, 6H); ESI-MS 1287.94 $(MH)^+$, 1285.85 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Example 42: Isolation of Compound 28

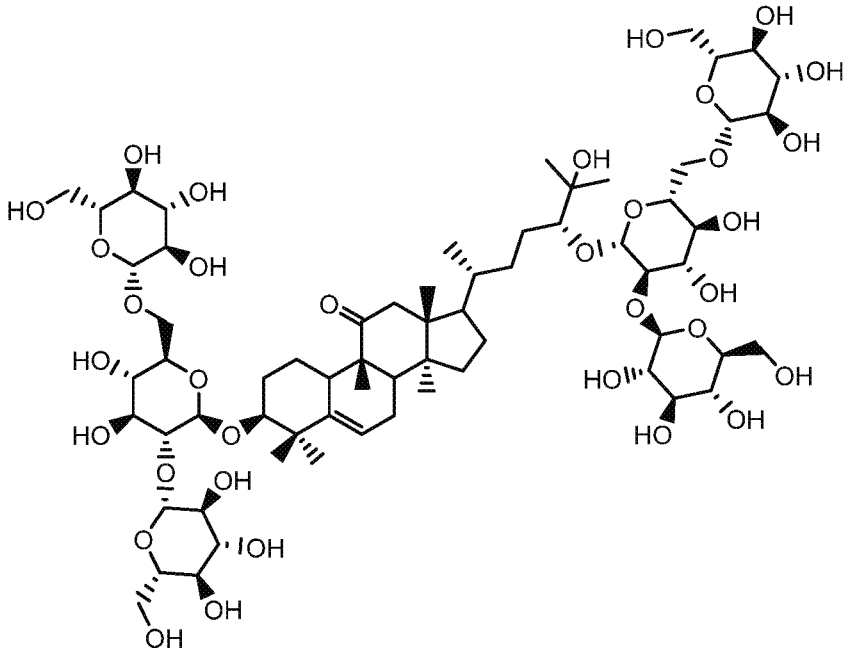


[0434] 100 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 200 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 15 along with other isomers. The pooled Fraction 15 (3.3 g) was further fractionated in 33 runs on Hilic HPLC 3 X 10 cm column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 22 minutes, followed by re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions containing the desired peak with the desired purity were pooled and dried under reduced pressure. The pure compound was re-suspended/dissolved in 1 mL of water and lyophilized to get 31 mg of fluffy white solid with 90% purity.

[0435] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.53 (d, J = 7.8 Hz, 1H), 5.45 (m, 1H), 5.14 (d, J = 7.9 Hz, 1H), 4.85 (m, 2H), 4.79 (d, J = 7.7 Hz, 1H), 4.75 (d, J = 7.8 Hz, 1H), 3.70 (m, 1H), 3.53 (brs, 1H), 1.47 (s, 3H), 1.43 (s, 3H), 1.30 (s, 3H), 1.10 (s, 3H), 1.04 (s, 3H), 0.96 (brd, J = 6.5 Hz, 6H), 0.68 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 214.54, 141.08, 118.58, 106.69, 104.78, 104.65, 103.78, 92.48, 87.21, 81.31, 81.19, 78.57, 78.34, 78.29, 78.22, 78.07, 77.93, 77.69, 76.58, 76.35, 76.18, 75.72, 75.16, 74.76, 72.78, 72.17, 71.31,

71.21, 70.06, 63.17, 62.37, 62.23, 61.97, 49.74, 49.69, 48.99, 48.77, 43.93, 41.93, 36.15, 35.82, 34.52, 33.09, 28.97, 28.27, 26.92, 25.78, 24.54, 24.04, 22.05, 20.23, 18.73, 18.38, 17.04; ESI-MS 1285.9 $(MH)^+$, 1283.78 $(M-H)^-$, Molecular formula, $C_{60}H_{100}O_{29}$.

Example 43: Isolation of 11-oxo-Mogroside VI

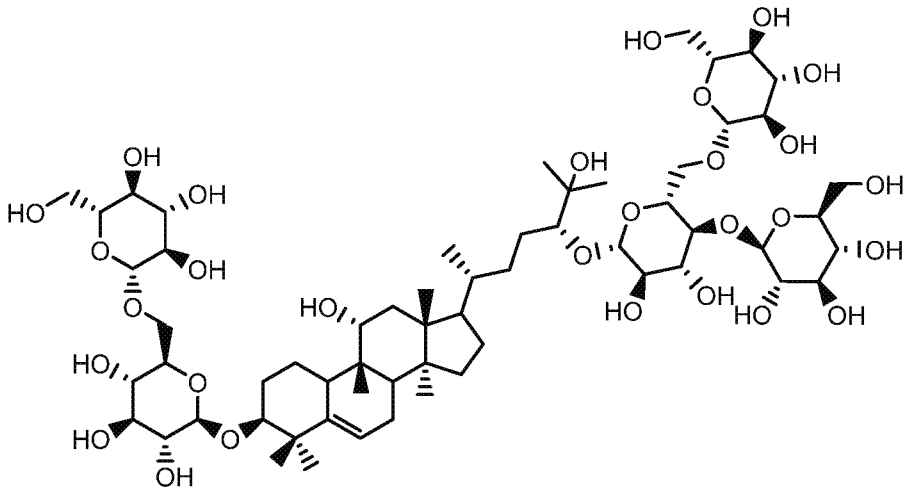


[0436] 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 22 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 3 with about 80% purity. The pooled Fraction 3 was dried under reduced pressure to give 80 mg of half white solid.

[0437] ^1H NMR (400 MHz, , Pyridine-d_5 + D_2O) δ 5.73 (d, J = 5.3 Hz, 1H), 5.54 (d, J = 7.8 Hz, 1H), 5.42 (m, 1H, merged with HDO peak), 5.27 (d, J = 7.7 Hz, 1H), 5.07 (d, J = 7.8 Hz, 1H), 4.81 (d, J = 7.8 Hz, 1H), 4.78 (d, J = 8.2 Hz, 1H), 3.72 (m, 1H), 3.63 (s, 1H), 1.46 (s, 3H), 1.44 (s, 3H), 1.31 (d, J = 2.7 Hz, 3H), 1.23 (s, 3H), 0.97 (m, 9H), 0.68 (s, 3H); ^{13}C NMR

(101 MHz, pyridine) δ 214.64, 140.98, 118.93, 106.43, 105.29, 104.92, 104.74, 104.54, 103.82, 92.48, 85.70, 81.63, 81.31, 78.67, 78.45, 78.38, 78.27, 78.20, 77.78, 77.63, 77.09, 76.95, 76.42, 75.79, 75.25, 75.07, 72.82, 72.22, 71.61, 71.39, 71.34, 70.14, 63.26, 62.63, 62.61, 62.42, 49.76, 49.56, 49.26, 49.07, 43.98, 41.79, 40.71, 36.04, 28.12, 27.01, 25.86, 24.61, 20.26, 18.83, 18.32, 17.12; ESI-MS, 1447.48$(MH)^+$, 1445.96 $(M-H)^-$; Molecular formula, $C_{66}H_{110}O_{34}$.

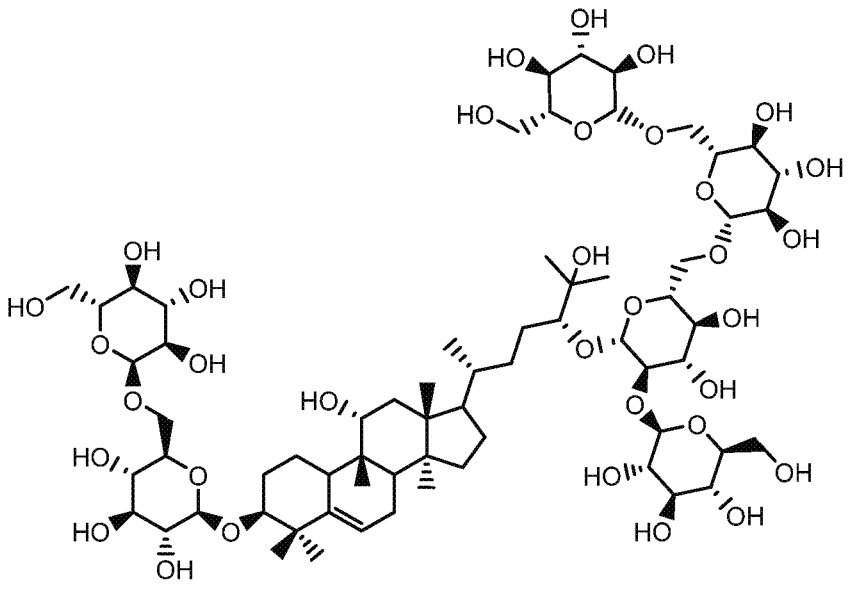
Example 44: Isolation of Compound 29



[0438] 80 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 10 along with other isomers. 795 mg of Fraction 10 was further purified in 13 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 95 to 5% B over 21 minutes, followed by re-equilibration at 95% (total run time = 30.5 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 2 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition and 2 mL of H_2O and lyophilized the sample for 2 days to get 167 mg of fluffy white solid with ~85% purity.

[0439] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.48 (d, J = 7.8 Hz, 2H), 5.13 (d, J = 7.8 Hz, 1H), 4.86 (d, J = 7.5 Hz, 1H), 4.82 (m, 1H), 4.78 (t, J = 7.4 Hz, 2H), 4.73 (m, 1H), 3.72 (d, J = 9.2 Hz, 1H), 3.68 (s, 1H), 1.46 (d, J = 2.0 Hz, 3H), 1.43 (s, 3H), 1.30 (s, 6H), 1.24 (s, 2H), 1.13 (d, J = 6.2 Hz, 2H), 1.03 (s, 3H), 0.82 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 142.99, 119.23, 106.84, 105.10, 104.99, 104.67, 103.73, 92.45, 87.25, 81.54, 78.50, 78.34, 78.31, 78.21, 78.08, 77.73, 77.29, 76.35, 75.68, 75.18, 75.01, 72.80, 72.25, 72.04, 71.54, 71.40, 71.32, 71.19, 69.99, 63.32, 62.58, 62.39, 51.45, 49.77, 45.73, 41.85, 41.82, 40.63, 39.89, 39.16, 36.56, 35.22, 33.40, 29.30, 28.39, 28.18, 26.96, 25.86, 24.70, 24.54, 23.93, 22.97, 19.15, 18.23, 18.08; ESI-MS 1287.84 $(MH)^+$, 1285.89 $(M-H)^-$, Molecular formula, $C_{60}H_{102}O_{29}$.

Example 45: Isolation of Compound 30

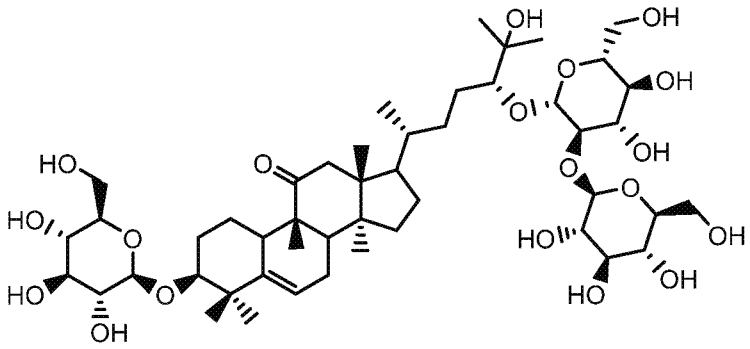


[0440] 80 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 14 along

with other isomers. The pooled Fraction 14 (1.24 g) was further purified in 29 runs on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 70 to 20% B over 21 minutes, followed by re-equilibration at 70% (total run time = 30.5 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fraction 8 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition and 2 mL of H_2O and lyophilized the sample for 48 hours to get 240 mg of fluffy white solid with 90% purity.

[0441] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.50 (m, 1H), 5.45 (m, 1H, merged with HDO peak), 5.41 (d, J = 3.6 Hz, 1H), 4.98 (d, J = 7.8 Hz, 1H), 4.84 (m, 2H), 4.79 (d, J = 7.7 Hz, 1H), 4.74 (d, J = 7.8 Hz, 1H), 3.70 (d, J = 9.1 Hz, 1H), 3.61 (brs, 1H), 1.45 (s, 3H), 1.42 (s, 3H), 1.28 (s, 6H), 1.03 (d, J = 8.5 Hz, 6H), 0.86 (s, 3H), 0.84 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.38, 118.36, 106.80, 105.19, 104.87, 104.63, 103.75, 100.06, 92.49, 87.48, 81.36, 78.52, 78.25, 78.04, 77.86, 77.66, 76.97, 76.31, 76.12, 75.66, 75.14, 75.02, 74.74, 73.85, 73.71, 72.85, 72.76, 72.19, 71.75, 71.58, 71.29, 71.14, 70.03, 67.75, 63.26, 62.34, 50.80, 49.62, 47.37, 43.45, 42.26, 40.76, 40.07, 36.62, 36.31, 34.49, 33.26, 29.17, 28.52, 27.58, 26.94, 26.89, 26.24, 24.49, 19.40, 19.07, 17.02; ESI-MS, 1447.89 $(M-H)^-$; Molecular formula, $C_{66}H_{112}O_{34}$.

Example 46: Isolation of 11-oxo-MIII$_E$

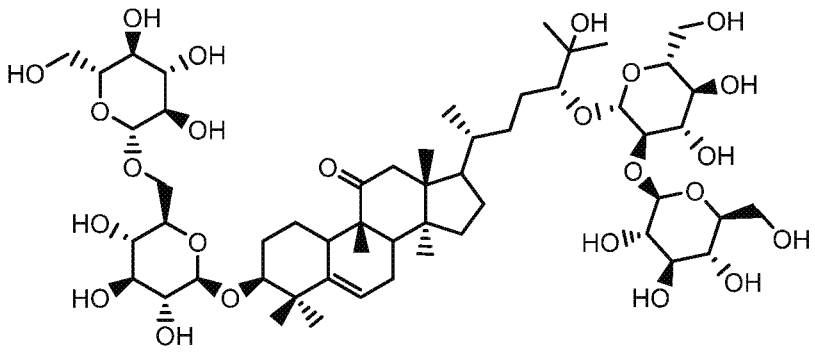


[0442] A powdered extract of *Siraitia grosvenorii* (Fructus momordicae extract, 50% mogroside, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. Samples of about 1.00 g were carefully weighed and dissolved in 7.0 mL of water and split into 2 equal injections. A total of 60 injections were run in this manner with a combined weight of 30.0 g of the Fructus momordicae extract. Purifications were done on a Waters Auto-purification system

using Atlantis T3 C_{18} column (5 X 10 cm) with an ACN/water gradient. The method was t = 0 min., 1 %, 50 mL/min → t = 0.75 min., 1%, 100 mL/min; t = 2.00 min., 1%, 100 mL/min; t = 2.10 min., 10%, 100 mL/min; t = 30.1 min., 30%, 100 mL/min; t = 30.2 min., 95%, 100 mL/min; t = 35.2 min, 95%, 100 mL/min; t = 35.3 min., 1%, 100 mL/min; t = 42.3 min., 1%, 100 mL/min by collecting from 20.0 min. to 30.8 min. (36 fractions, 30 mL each). The desired compound was eluted in fraction 28 along with other isomers. The pooled Fraction was further purified on C18 HPLC (3 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 2 injections using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 45 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. Fraction 23 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition and 1 mL of H_2O and lyophilized the sample for 48 hours to get 19 mg of fluffy white solid with 90% purity.

[0443] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.42 (m, 1H, merged with HDO peak), 5.37 (d, J = 8.0 Hz, 1H), 4.99 (d, J = 7.8 Hz, 1H), 4.80 (d, J = 7.8 Hz, 1H), 3.59 (brs, 1H), 1.49 (s, 3H), 1.46 (s, 3H), 1.42 (s, 3H), 1.10 (s,34H), 1.05 (s, 3H), 0.94 (s, 3H), 0.92 (s, 3H), 0.66 (s, 3H); ^{13}C NMR (101 MHz, pyridine) δ 214.54, 141.22, 118.61, 107.16, 105.64, 102.35, 88.85, 87.22, 82.90, 78.50, 78.39, 78.14, 78.03, 75.96, 75.34, 75.22, 72.51, 71.96, 71.58, 71.34, 71.19, 63.05, 62.76, 62.38, 49.70, 49.62, 49.05, 47.40, 43.97, 42.40, 42.03, 36.45, 35.92, 34.56, 28.36, 27.00, 25.89, 25.61, 20.30, 18.77, 18.36, 17.04; ESI-MS 961.85 $(MH)^+$, 959.9 $(M-H)^-$, Molecular formula, $C_{48}H_{80}O_{19}$.

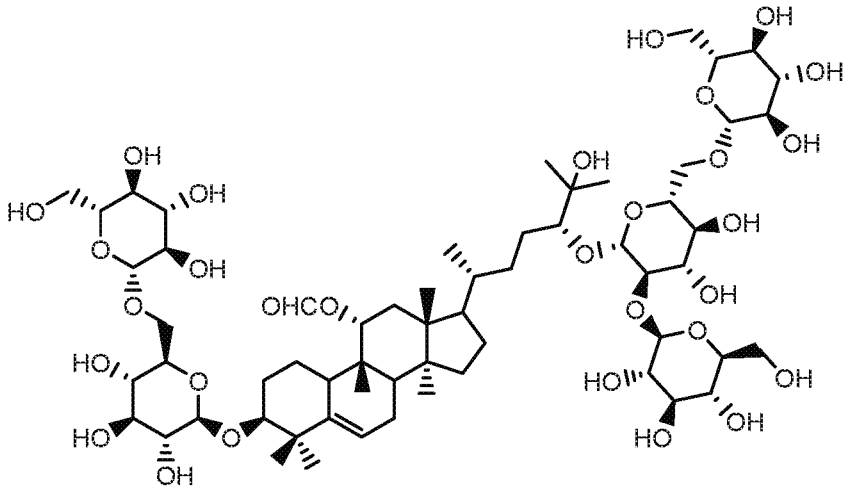
Example 47: Isolation of 11-oxo-MIV_E



[0444] 11 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 360 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 19 along with other isomers. The pooled Fraction 19 was further fractionated on Hilic HPLC column (3 X 10 cm, XBridge amide column, 5 um, Waters) using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 22 minutes, with a 95% A wash followed by re-equilibration at 80% (total run time = 30.3 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions 4 & 5 contained the desired product and was pooled, concentrated under reduced pressure followed by the addition of 1 mL of H_2O and lyophilized the sample for 72 hours to get 18 mg of fluffy white solid with ~85% purity.

[0445] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.44 (m, 2H, merged with HDO peak), 4.85 (m, 2H), 4.80 (d, J = 7.7 Hz, 2H), 3.71 (m, 1H), 3.58 (d, J = 2.6 Hz, 1H), 1.49 (s, 3H), 1.43 (s, 3H), 1.30 (s, 3H), 1.11 (s, 3H), 1.04 (s, 3H), 0.96 (m, 6H), 0.68 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 214.51, 141.18, 118.54, 107.10, 104.83, 104.67, 103.79, 92.49, 87.17, 81.21, 78.58, 78.33, 78.24, 78.08, 77.70, 76.37, 75.74, 75.30, 75.18, 72.79, 72.18, 71.54, 71.30, 71.22, 70.08, 63.19, 62.71, 62.38, 49.74, 49.70, 49.50, 49.00, 48.78, 43.95, 41.98, 36.17, 35.86, 34.54, 28.31, 26.94, 25.84, 24.56, 20.27, 18.75, 18.39, 17.04; ESI-MS 1123.88 $(MH)^+$, 1121.89 $(M-H)^-$, Molecular formula, $C_{54}H_{90}O_{24}$.

Example 48: Isolation of Mogroside V formate ester

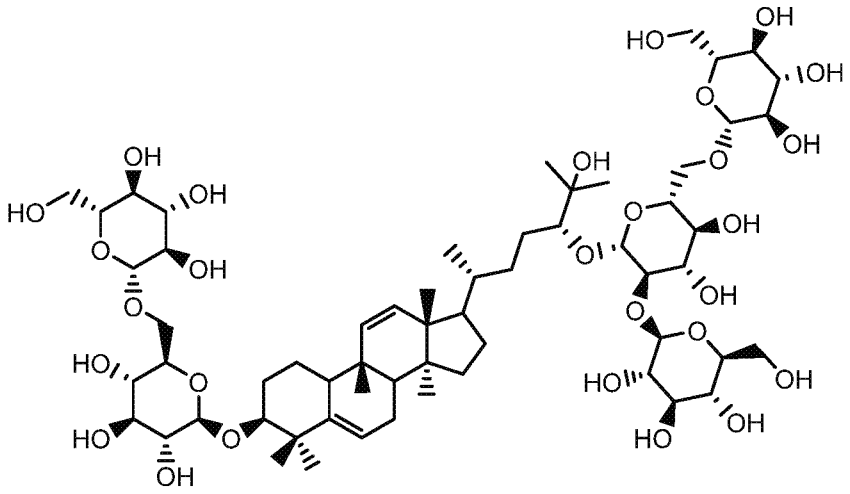


[0446] 2 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 4 injections using an A/B gradient (A = water + 0.1% formic acid, B = acetonitrile) of 1 → 50 % B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in Fraction 8 along with mogroside V and other isomers. The pooled Fraction 8 (700 mg) was further fractionated in 4 runs on fluoro-phenyl HPLC (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak (Fraction 8) with the desired purity were pooled based on UPLC analysis and dried under reduced pressure to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 2 mL of water and lyophilized to get 65 mg of fluffy white solid with ~ 95% purity.

[0447] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 8.50 (s, 1H), 5.48 (d, J = 7.8 Hz, 1H), 5.39 (d, J = 7.2 Hz, 1H), 5.13 (d, J = 7.8 Hz, 1H), 4.79 (d, J = 7.8 Hz, 1H), 4.76 (d, J = 8.9 Hz, 1H), 3.71 (dd, J = 7.1, 3.5 Hz, 1H), 3.62 (d, J = 2.8 Hz, 1H), 1.45 (s, 3H), 1.42 (s, 3H), 1.30 (s, 3H), 1.06 (s, 3H), 0.99 (d, J = 6.6 Hz, 3H), 0.97 (s, 3H), 0.92 (s, 3H), 0.82

(s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 162.28, 143.30, 118.52, 106.76, 104.95, 104.92, 104.65, 103.73, 92.38, 87.49, 81.48, 80.46, 78.51, 78.33, 78.29, 78.24, 78.19, 78.08, 78.03, 77.68, 77.35, 76.34, 75.69, 75.20, 75.15, 74.98, 72.78, 72.17, 71.44, 71.39, 71.27, 71.16, 70.05, 69.86, 63.21, 62.52, 62.35, 50.59, 49.49, 49.37, 47.46, 43.28, 42.21, 40.61, 39.33, 36.81, 36.69, 35.96, 34.13, 33.01, 29.03, 28.36, 27.47, 26.92, 26.25, 26.09, 25.27, 24.52, 24.12, 19.26, 18.98, 16.71; ESI-MS 1315.94 $(MH)^+$, 1313.81$(M-H)^-$; Molecular formula, $C_{61}H_{102}O_{30}$.

Example 49: Isolation of Compound 31

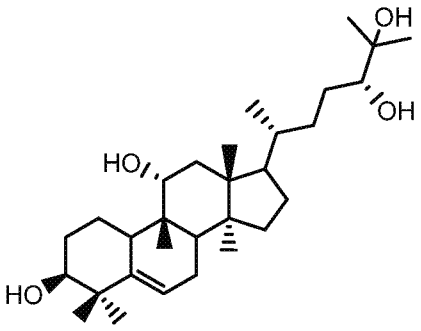


[0448] 80.2 g of *Siraitia grosvenorii* powdered extract (Fructus momordicae extract, 50% mogrosides, light yellow powder) was obtained from Xi'an Heking Bio-tech Co.,Ltd. was fractionated on C18 HPLC (5 X 10 cm Atlantis prep T3 OBD column, 5 um, Waters) by 160 injections using an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 42 minutes). Each run was collected in 36 tared tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. The plates were dried in the Genevac HT12/HT24. The desired compound was eluted in FractionFractions 27 along with other isomers. The pooled Fraction 27 (223 mg) was further purified in 7 runs on fluoro-phenyl HPLC (3 X 10 cm, Xselect fluoro-phenyl OBD column, 5 um, Waters) using an A/B gradient (A = water, B = acetonitrile) of 15 → 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 12 tared tubes (12 fractions/plate, 1 plate per run) at 30 mL/fraction. Fractions containing the desired peak with the desired purity (Fraction 10) were pooled and dried under reduced pressure

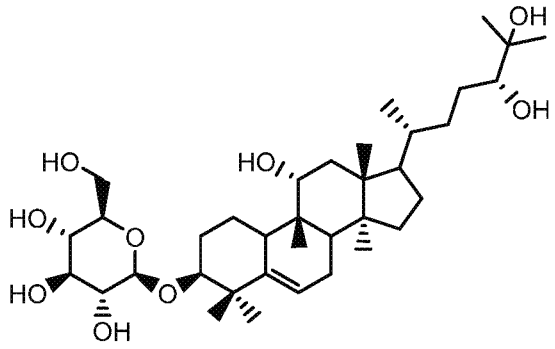
to give a whitish powdery solid. The pure compound was re-suspended/dissolved in 1 mL of water and lyophilized to get 11 mg of fluffy white solid.

[0449] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.97 (d, J = 10.1 Hz, 1H), 5.4 (m, 3H, merged with HDO peak), 5.14 (d, J = 7.8 Hz, 1H), 4.79 (d, J = 7.5 Hz, 1H), 3.73 (m, 1H), 3.63 (m, 1H), 1.44 (s, 3H), 1.44 (s, 3H), 1.31 (s, 3H), 1.12 (d, J = 6.3 Hz, 3H), 0.96 (s, 3H), 0.94 (s, 3H), 0.84 (s, 3H), 0.83 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 141.71, 134.9 (merged with pyridine-d_5 peak), 132.86, 118.11, 106.70, 104.93, 104.73, 104.53, 103.65, 92.39, 87.02, 81.24, 78.39, 78.27, 78.20, 78.16, 78.04, 77.94, 77.56, 77.16, 76.25, 75.60, 75.05, 74.88, 72.75, 72.06, 71.42, 71.32, 71.20, 71.03, 69.93, 63.13, 62.48, 62.26, 49.77, 49.24, 47.16, 41.75, 41.55, 40.46, 37.60, 36.94, 33.00, 32.80, 29.03, 28.63, 28.14, 26.82, 25.79, 25.23, 24.45, 23.81, 21.55, 19.18, 18.87; ESI-MS 1269.76 $(MH)^+$, 1267.69 $(M-H)^-$; Molecular formula, $C_{60}H_{100}O_{28}$.

Examples 50 and 51: Enzymatic production of Mogrol and Mogroside I_E from pectinase



Mogrol



Mogroside $_{IE}$

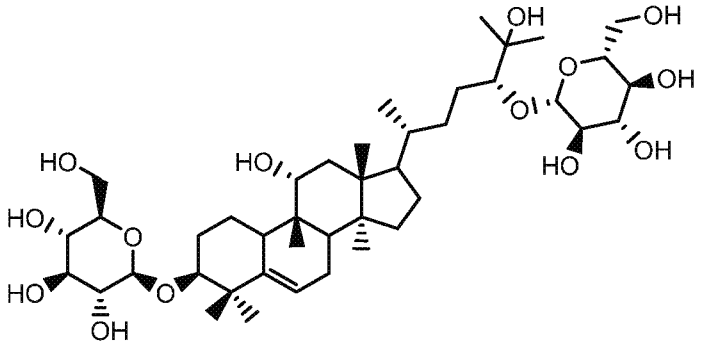
[0450] To a 250mL round bottom flask, 1 g of mogroside V, 100mL of 0.1M sodium acetate buffer pH 5.5, and 70mL of pectinase enzyme from *aspergillus aculeatus* were added and stirred the flask at 55°C. The progress of the reaction was monitored periodically by LC-MS. After 8 days, the reaction was stopped and extracted 4 times with 200mL of ethyl acetate. The combined EtOAc extract was dried under reduced pressure and fractionated on 60g C18 SPE cartridge using the standard 5/35/70/100% MeOH: H_2O step gradient. The desired products were eluted in 100% MeOH Fraction. This Fraction was further purified on HPLC using C18 column (3 X 10 cm Atlantis T3 OBD column, 5 um, Waters) with an A/B gradient (A = water, B =

acetonitrile) of 1 → 95% B over 50 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 60 minutes). Each run was collected in 72 tubes (12 fractions/plate, 6 plates per run) at 30 mL/fraction. Fractions eluted with the desired products with desired purity were pooled separately, dried under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for ~ 2 days to get 62 (F26-27) and 190 (F36-37) mg of white fluffy solid.

[0451] **Mogrol:** ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.64 (d, J = 5.9 Hz, 1H), 4.19 (dd, J = 10.7, 5.9 Hz, 1H), 3.81 – 3.76 (m, 1H), 3.74 (d, J = 2.8 Hz, 1H), 1.55 (s, 3H), 1.52 (s, 3H), 1.42 (s, 3H), 1.36 (s, 3H), 1.18 (s, 3H), 1.00 (d, J = 6.2 Hz, 3H), 0.91 (brs, 3H), 0.88 (s, 3H); ESI-MS 477.47 (MH)+; Molecular formula, $C_{30}H_{52}O_4$.

[0452] **Mogroside IE:** ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.48 (d, J = 6.0 Hz, 0H), 4.85 (d, J = 7.8 Hz, 0H), 3.77 (dd, J = 9.0, 2.5 Hz, 0H), 3.65 (d, J = 2.8 Hz, 0H), 1.55 (s, 1H), 1.53 (s, 1H), 1.51 (s, 1H), 1.29 (s, 1H), 1.13 (s, 1H), 0.99 (d, J = 6.1 Hz, 1H), 0.86 (s, 1H), 0.85 (s, 1H); ESI-MS 639.9 $(MH)^+$, 637.63 $(M-H)^-$, Molecular formula, $C_{36}H_{62}O_9$.

Example 52: Enzymatic production of Mogroside IIE

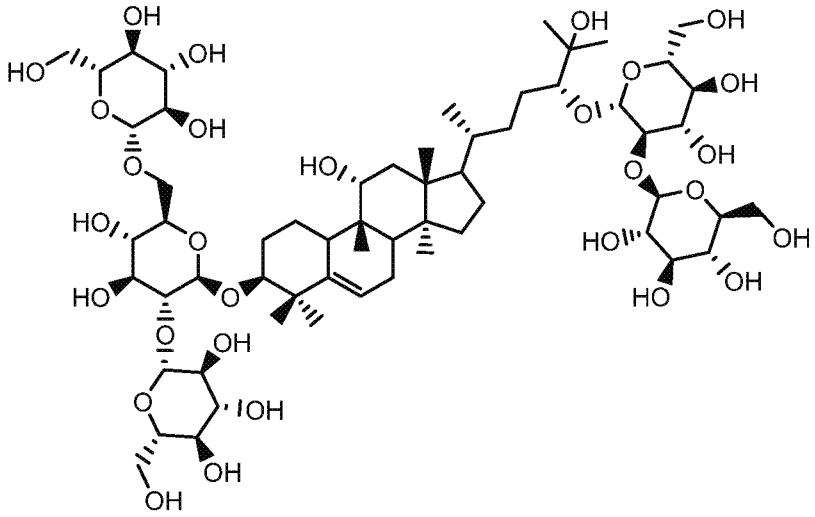


[0453] To a 250mL round bottom flask, 200 mg of pure mogroside V, 18 mL of water, 660 uL of 1M pH 5.0 sodium acetate buffer and 350 uL of pectinase from *Aspergillus aculeatus* (from Sigma, lot#SLBM6360V) was added and stirred at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 24 hours, the reaction was quenched with 50 mL ethanol and removed the solvents on Genevac. The reaction mixture was further purified on RP-HPLC using C18 column (3 x 10 cm Atlantis T3 OBD column, 5um, Waters) with an A/B gradient (A = water, B = acetonitrile) of 1 - 95% B over 50 minutes, with a 95% B wash, followed by re-equilibration at 1% (total run time = 61 minutes). The run was collected in 72

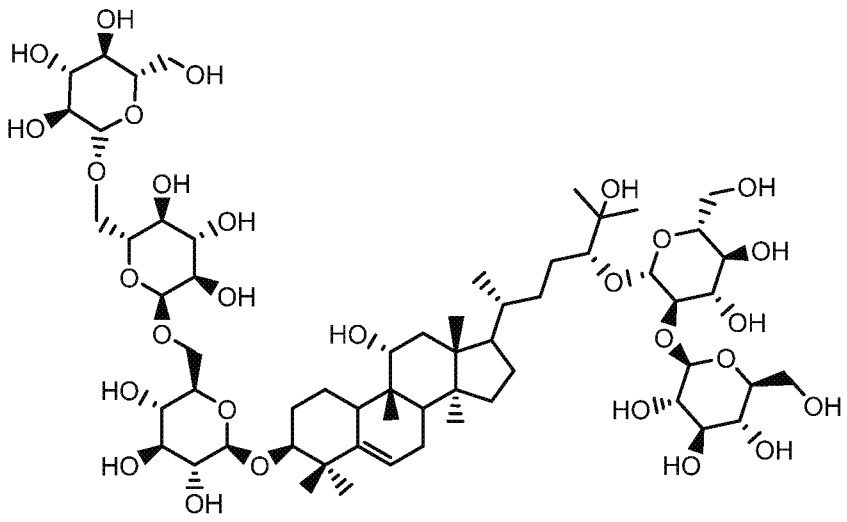
tubes (12 fractions/plate, 6 plates per run) at 30 mL/fraction. The desired compound was eluted in fraction 23 and was dried under reduced pressure. The pure compound was re-suspended/dissolved in 2 mL of water and lyophilized to get 18.8mg of fluffy white solid with 95 % purity.

[0454] ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ5.45 (m, 1H, merged with HDO peak), 4.95 (d, J = 7.8 Hz, 1H), 4.83 (d, J = 7.8 Hz, 1H), 3.85 (dd, J = 8.5, 2.1 Hz, 1H), 3.64 (brs, 1H), 1.50 (s, 3H), 1.40 (s, 3H), 1.37 (s, 3H), 1.27 (s, 3H), 1.11 (s, 3H), 0.92 (d, J = 6.3 Hz, 3H), 0.85 (s, 3H), 0.78 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.29, 118.53, 107.14, 105.61, 90.30, 87.82, 78.50, 78.30, 78.25, 77.98, 77.76, 75.29, 75.17, 72.22, 71.58, 71.51, 62.76, 62.47, 50.81, 49.66, 47.36, 43.48, 42.36, 40.85, 40.08, 36.77, 36.48, 34.53, 33.45, 29.51, 28.29, 27.67, 26.82, 26.77, 26.28, 26.25, 25.13, 24.54, 19.31, 18.85, 16.99; ESI-MS 801.73 $(MH)^+$, 799.74 $(M-H)^-$, Molecular formula, $C_{42}H_{72}O_{14}$.

Examples 53 and 54: Enzymatic production of Compounds 32 and 33



Compound 32



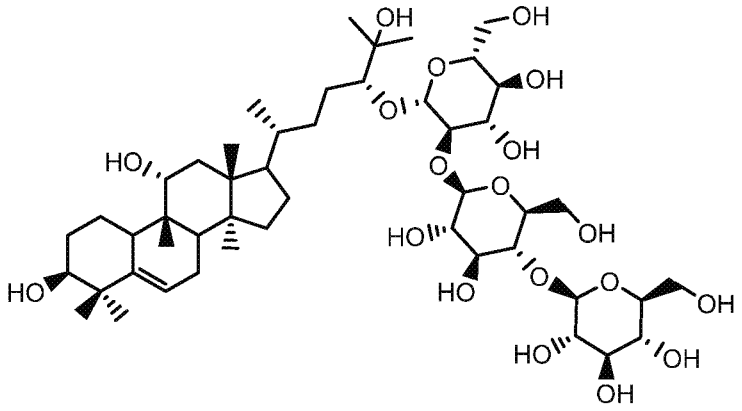
Compound 33

[0455] To a 1L round bottom flask, 10g of mogroside 50% powder, 500mL of 0.1 M sodium acetate buffer pH5.0 and 10mL pectinase from *Aspergillus aculeatus* were added and stirred at 50°C. The progress of the reaction was monitored periodically by LC-MS. After 6 hours, the reaction was quenched with 500mL ethanol. This process was repeated two more times using 10g of mogroside V each time and the rest of the reaction scaled up linearly. The combined 3 lots (30g total) were dried under reduced pressure and fractionated on 400g SPE cartridge using a standard 5/35/70/100 MeOH: H_2O gradient. The desired mogrosides were eluted in 70% MeOH fraction. This Fraction was further fractionated on HPLC using C18 column (5 X 10 cm Atlantis T3 OBD column, 5 um, Waters) with an A/B gradient (A = water, B = acetonitrile) of 10 → 30% B over 30 minutes, with a 95% B wash, followed by re-equilibration at 10% (total run time = 42 minutes). Each run was collected in 36 tubes (12 fractions/plate, 3 plates per run) at 30 mL/fraction. Fraction 10 was eluted with two mogroside V isomers along with other minor isomers. This Fraction was further purified on Hilic 3 x 10cm HPLC column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 20% B over 22 minutes, followed by wash and re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 12 fractions (12 fractions/plate, 1 plate per run) at 30mL/fraction. Fractions eluted with the desired products with desired purity were pooled separately, dried under reduced pressure and re-suspended/dissolved in 2 mL of water and lyophilized for ~ 2 days to get 68 (F6) and 42 (F11-12) mg of white fluffy solid.

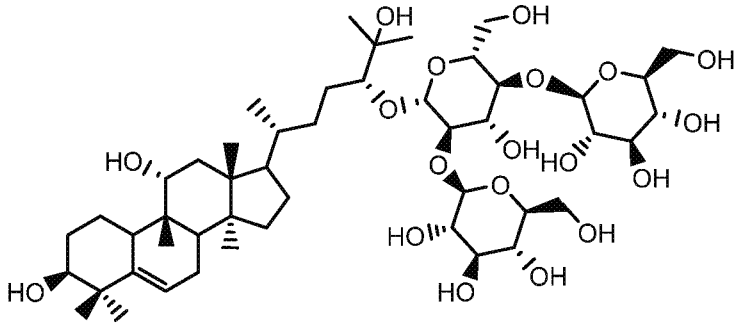
[0456] Compound 32: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.44 (m, 1H, merged with HDO peak), 5.35 (d, J = 7.8 Hz, 1H), 5.21 (d, J = 7.7 Hz, 2H), 5.00 (d, J = 7.7 Hz, 1H), 4.91 (d, J = 7.9 Hz, 1H), 1.51 (s, 3H), 1.46 (s, 3H), 1.41 (s, 3H), 1.26 (s, 3H), 1.10 (s, 3H), 1.03 (d, J = 6.3 Hz, 3H), 0.81 (s, 6H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.43, 118.36, 106.37, 106.32, 105.70, 102.95, 102.20, 88.69, 86.70, 84.47, 83.06, 78.69, 78.44, 78.37, 78.30, 78.22, 78.16, 77.99, 77.85, 76.75, 76.35, 75.89, 75.36, 72.45, 71.93, 71.62, 71.20, 71.13, 70.96, 70.19, 63.08, 62.32, 62.25, 50.74, 49.66, 47.38, 43.48, 42.38, 40.76, 40.09, 36.72, 36.64, 34.50, 33.81, 29.62, 28.57, 27.66, 26.97, 26.92, 26.26, 26.16, 25.53, 24.54, 19.36, 19.10, 17.01; ESI-MS 1287.89 $(MH)^+$, 1285.91$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

[0457] Compound 33: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.45 (m, 2H, merged with HDO peak), 5.35 (m, 1H), 5.00 (d, J = 7.8 Hz, 2H), 4.76 (d, J = 7.8 Hz, 1H), 3.88 (d, J = 8.1 Hz, 2H), 3.63 (s, 1H), 1.45 (s, 6H), 1.41 (s, 3H), 1.28 (s, 3H), 1.05 (s, 3H), 1.02 (d, J = 6.2 Hz, 3H), 0.82 (s, 6H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.42, 118.42, 106.85, 105.70, 105.25, 102.21, 100.12, 88.70, 87.47, 83.05, 78.44, 78.37, 78.31, 78.11, 78.04, 77.99, 77.86, 77.04, 76.17, 75.90, 75.19, 75.07, 74.79, 73.90, 73.77, 72.46, 71.94, 71.82, 71.63, 71.41, 71.14, 70.18, 67.83, 63.09, 62.41, 62.32, 50.74, 49.67, 47.38, 43.48, 42.30, 40.77, 40.11, 36.68, 34.52, 33.82, 29.42, 28.62, 28.52, 27.63, 26.93, 26.25, 25.52, 24.54, 19.37, 19.08, 17.02; ESI-MS 1287.82$(MH)^+$, 1285.94$(M-H)^-$; Molecular formula, $C_{60}H_{102}O_{29}$.

Examples 55 and 56: Enzymatic production of Compounds 34 and 35



Compound 34



Compound 35

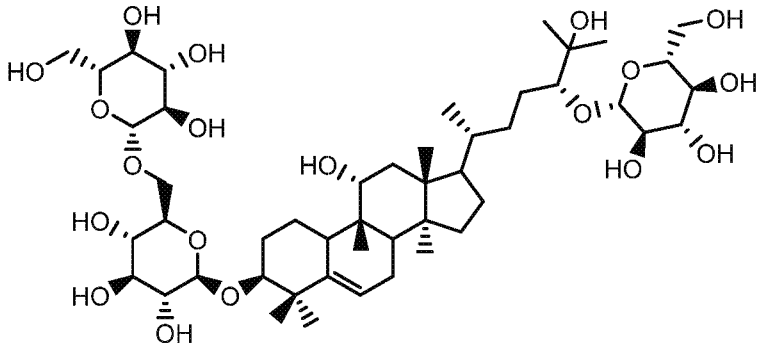
[0458] To a 250-mL baffled flask, 1 g of crude mogroside III_E, 53 mL of water, 15 mL of 1M sodium acetate buffer pH 5, 7 ml of celluclast from Novozymes and 75 g of α-lactose were added and shook the flask at 220 rpm, 50°C for 9 days. The progress of the reaction was monitored periodically by LC-MS analysis. The same reaction was repeated 17 more times for a total of 18g of mogroside III_E in two batches. After 9 days, the unreacted enzyme and excess lactose from the reaction mixtures were removed in three following steps before SPE purification. The reaction mixture was centrifuged for ~ 10 min at 5000 rpm to remove the excess lactose followed by the incubation at 80°C for 30 min with magnetic stirring at 500 rpm. Further approximately ~10% NH_4SO_4 solution was added to precipitate the unreacted enzyme and sugars, followed by centrifugation for 10 min at 5000 rpm and removed the precipitate. The supernatant was filtered through 0.22 μm PES and loaded onto 400g SPE C18 column and fractionated using a standard 5/35/70/100 MeOH: H_2O step gradient. The desired compound was eluted in 70% methanol fraction. The combined 70% SPE Fraction (12g) was further purified on

RP-HPLC using PF column with an A/B gradient (A = water, B = acetonitrile) of 15 to 30% B over 35 minutes, with a 95% B wash, followed by re-equilibration at 15% (total run time = 45 minutes). Each run was collected in 72 tubes (12 fractions/plate, 6 plates per run) at 7.5 mL/fraction in 2 collection windows of 36 fractions each. Fractions 45-48 and 51-54 contained the desired peaks with the desired purity and were pooled separately based on UPLC analysis and dried under reduced pressure to give whitish powdery solids. The pure compounds from these Fractions were re-suspended/dissolved in 2 mL of water and lyophilized for about 3 days to get 135 and 120 mg of white solids respectively.

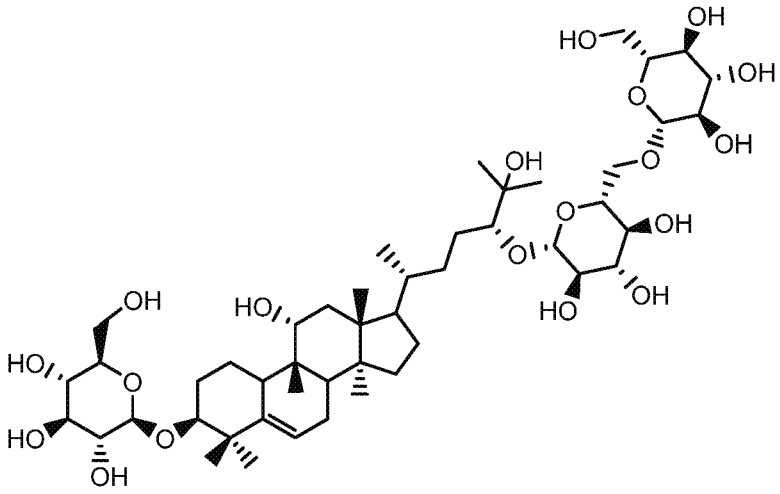
[0459] Compound 34: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.62 (d, J = 6.0 Hz, 1H), 5.24 (d, J = 7.8 Hz, 1H), 5.01 (d, J = 7.8, Hz, 2H), 3.85 (dt, J = 6.3, 3.4 Hz, 1H), 3.70 (d, J = 2.9 Hz, 1H), 1.44 (s, 3H), 1.39 (brs, 6H), 1.33 (s, 3H), 1.17 (s, 3H), 1.02 (d, J = 6.4 Hz, 3H), 0.89 (s, 3H), 0.84 (s, 3H); ^{13}C NMR (101 MHz, Pyridine-d_5 + D_2O) δ 144.14, 119.11, 105.71, 105.64, 101.83, 87.86, 83.58, 82.68, 78.40, 78.06, 77.89, 77.19, 76.49, 76.22, 76.16, 75.55, 74.95, 72.41, 72.28, 71.13, 69.78, 62.45, 62.26, 61.81, 50.80, 49.71, 47.40, 43.57, 42.27, 40.85, 40.15, 36.73, 34.54, 33.96, 30.64, 28.69, 28.53, 27.31, 26.71, 26.65, 26.21, 25.89, 25.55, 24.60, 19.37, 19.03, 17.01; ESI-MS, 963.84 $(MH)^+$, 961.85 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

[0460] Compound 35: ^{1}H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.60 (d, J = 6.3 Hz, 1H), 5.00 (d, J = 7.9 Hz, 1H), 4.91 (d, J = 7.7 Hz, 1H), 3.79 (dd, J = 7.8, 2.3 Hz, 2H), 3.70 (t, J = 2.8 Hz, 2H), 1.43 (s, 3H), 1.39 (s, 6H), 1.34 (d, J = 2.8 Hz, 3H), 1.15 (s, 3H), 1.0 (m, 3H), 0.91 (s, 3H), 0.83 (s, 3H); ESI-MS, 963.81 $(MH)^+$, 961.92 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

Examples 57 and 58: Enzymatic production of Mogroside III_{A2} and Mogrodide III



Mogroside III_{A2}



Mogroside III

[0461] To a 100-mL flask, 1g of Mogroside V, 50mL of 0.1M sodium acetate buffer pH5 and 200mg of Fungal Lactase (Enzyme Development) were added and stirred at 50°C. The progress of the reaction was monitored by LC-MS periodically. After 24 hours, the reaction was stopped by heating at 80°C for 30 minutes and centrifuged at 4000rpm for 10 minutes. The filtered supernatant was further treated with 1mL of alpha-Amylase (Sigma) and stirred at room temp for 3 days. The progress of the reaction was monitored by LC-MS periodically. The reaction was stopped by heating to 80°C for 30 minutes and centrifuged at 4000rpm for 10 minutes. The supernatant volume was reduced by rotary evaporation and loaded onto a 60g C18 SPE column and fractionated using 5/35/70/100 MeOH: H_2O step gradient. The desired products were eluted in the 70% MeOH fraction and further purified on HILIC column using an A/B gradient (A = 3:1 MeOH: H_2O, B = acetonitrile) of 80 to 40% B over 26 minutes, followed by

re-equilibration at 80% (total run time = 30 minutes). Each run was collected in 24 fractions (12 fractions/plate, 2 plates per run) at 30mL/fraction. Fractions eluted with the desired products were pooled separately, dried under reduced pressure and re-suspended/dissolved in 1 mL of water and lyophilized for ~ 2 days to get 24 mg of F4 and 62 mg of F6-7 as white fluffy solid with about 90% purity.

[0462] Mogroside III_{A2}: ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ5.45 (m, 1H, merged with HDO), 4.88 (m, 1H), 4.84 (t, J = 7.9 Hz, 2H), 4.79 (d, J = 7.7 Hz, 1H), 3.72 (d, J = 8.8 Hz, 1H), 3.64 (d, J = 2.9 Hz, 1H), 1.50 (s, 3H), 1.38 (s, 3H), 1.28 (s, 3H), 1.27 (s, 3H), 1.11 (s, 3H), 0.89 (d, J = 6.3 Hz, 3H), 0.86 (s, 3H), 0.78 (s, 3H); ESI-MS, 963.91 $(MH)^+$, 961.85 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

[0463] Mogroside III: ^1H NMR (400 MHz, Pyridine-d_5 + D_2O), selected signals: δ 5.45 (m, 1H, 6-H, merged with HDO), 5.11 (d, J = 7.8 Hz, 1H, G3-1H), 4.95 (d, J = 7.8 Hz, 1H, G1-1H), 4.78 (d, J = 7.8 Hz, 1H, G2-1H), 3.85 (1H, m, 24-H), 3.68 (d, J = 2.8 Hz, 1H, 3-H), 1.47 (s, 3H, 28-Me), 1.41 (s, 3H, 26-Me), 1.37 (s, 3H, 27-Me), 1.29 (s, 3H, 19-Me), 1.08 (s, 3H, 29-Me), 0.93 (d, J = 6.3 Hz, 3H, 21-Me), 0.84 (s, 2H, 30-Me), 0.77 (s, 3H, 18-Me); ESI-MS, 963.84 $(MH)^+$, 961.92 $(M-H)^-$; Molecular formula, $C_{48}H_{82}O_{19}$.

Example 59: Sweetening Packet

[0464] A packet containing a ready-to-use sweetener composition is prepared by blending a compound of Formula (I), (D)-glucose, maltodextrin, and an anti-caking agent. The mixture is then dispensed into individual paper packets such that each packet contains about 60 milligrams of a compound of Formula (I) with 890 milligrams of (D)-glucose, 40 milligrams of maltodextrin, and 10 milligrams of an anti-caking agent. Each packet containing about 1.0 grams of the sweetener composition delivers the sweetness of two teaspoons of sugar.

Example 60: Liquid Concentrate Formulation / Dilution

[0465] A concentrated liquid formulation is prepared by blending the following ingredients: a compound of Formula (I), trisodium citrate, phosphoric acid, calcium carbonate, one or more flavoring agents, one or more preservatives, one or more coloring agents, and optionally, a chelating agent. The blend is then dissolved in a solution of water and propylene glycol.

Example 61: Powder Concentrate Formulation / Dilution

[0466] A concentrated powder formulation is prepared by blending the following ingredients: a compound of Formula (I), trisodium citrate, phosphoric acid, calcium carbonate, one or more flavoring agents, one or more anti-caking agents, one or more preservatives, one or more coloring agents, and optionally, a chelating agent.

Example 62: Beverage Product

[0467] A beverage product is blending the following ingredients: a compound of Formula (I), trisodium citrate, phosphoric acid, calcium carbonate, one or more flavoring agents, one or more preservatives, one or more coloring agents, and optionally, a chelating agent. The blend is then dissolved in water to achieve the appropriate taste and consistency for consumption, and is packaged accordingly. Optionally, the water may be carbonated.

Example 63: HTS-Sweet

[0468] Compound activity (EC_{50}) was determined using an automated fluorometric imaging assay on a FLIPR instrument (Fluorometric Intensity Plate Reader, Molecular Devices, Sunnyvale, CA). Cell stably expressing the human sweet taste receptor and a promiscuous G protein were seeded into 384-well plates (at approximately 40,000 cells per well). Cells were grown for 24 hours at 37 °C. Cells were then loaded with the calcium dye Fluo-4AM (Molecular Probes, Eugene, OR), 4 μM in a phosphate buffered saline (D-PBS) (Invitrogen, Carlsbad, CA), for 1 hour at room temperature. After replacement with 25 μl D-PBS, stimulation was performed in the FLIPR instrument and at room temperature by the addition of 25 μl D-PBS supplemented with different stimuli at concentrations corresponding to twice the desired final level. Receptor activity was quantified by determining the maximal fluorescence increases (using a 480 nm excitation and 535 nm emission) after normalization to basal fluorescence intensity measured before stimulation. The activity for selected compounds (EC_{50}) is shown in Table 1, below. A grade of "A" indicates an EC_{50} of less than 17 μM. A grade of "B" indicates an EC_{50} of 17 μM to 30 μM. A grade of "C" indicates an EC_{50} of greater than 30 μM.

[0469] For dose-responses analysis, stimuli were presented in duplicates at 10 different concentrations ranging from 0.4 μM to 200 μM. EC_{50}s were determined using a non-linear regression algorithm, where the Hill slope, bottom asymptotes and top asymptotes were allowed to vary. In order to determine the dependency of hT1R2/hT1R3 for the cell response to

different stimuli, selected compounds were subjected to a similar analysis on parental cells (not expressing the human sweet receptor).

Table 1: Compound EC_{50}s for hT1R2/hT1R3

Compound	**EC_{50}**
Compound 1	A
Compound 2	B
Compound 3	A
Compound 4	A
Compound 5	B
Compound 6	A
Compound 7	A
Compound 8	A
Compound 9	B
Compound 10	A
Compound 11	C
Compound 12	B
Compound 13	B
Compound 14	A
Compound 15	A
Compound 16	B
Compound 17	A
Compound 18	A
Compound 19	A
Compound 20	A
Compound 21	A
Compound 23	A

Compound 29	C
Compound 30	C
Compound 31	C
Compound 32	C
Compound 33	C
Compound 34	C
Compound 35	B

Sensory Studies

Example 64: Paired Comparison Testing

[0470] Paired comparison tests (2-Alternative Forced Choice difference tests, i.e., 2-AFC) were used to determine sweet intensity equivalence between samples prepared with Rebaudioside A and the test sweet compound. Trained external panelists were used for the taste tests.

[0471] 2-AFC tests, compound solutions were tested against 300ppm Rebaudioside A to determine how they matched in sweet intensity. Panelists tasted both samples and indicated which sample was sweeter in each pair. Panelists rinsed their mouths with water prior to starting any test. Samples were presented to panelists in randomized, counterbalanced pairs and were labeled with 3-digit blinding codes. Panelists rinsed with water between samples as well as between pairs. There was a 90 second delay to clear the mouth of any tastes after each pair evaluation. Three replicates of each test were performed.

[0472] The 2-AFC data was analyzed to determine significant differences between 300ppm Rebaudioside A and compound solutions using a probability table for a two-tailed test (alpha=0.05).

[0473] The paired comparison testing was performed using a 0.25 mL sample size, and all samples were made with Low Sodium Buffer (LSB) pH ~7.1 and contain 0% ethanol. The panelists found that 300ppm Compound 18 was significantly sweeter than 300ppm Rebaudioside A ($p<0.05$) (Table 2); that 250ppm Compound 18 was not significantly different in sweetness than 300ppm Rebaudioside A ($p>0.05$) (Table 3); and that 300ppm Rebaudioside A

was not significantly different in sweetness than 300ppm Compound 1 ($p>0.05$) (Table 4). Similarly, Compounds 2-17, 19-21, and 23 were found to be at least as sweet as Rebaudioside A.

Table 2: Sample selected as sweeter by panelists, n = 42 (14 panelists x 3 reps). Power = 84%

Samples	**Total**
300ppm Rebaudioside A	14
300ppm Compound 18	28
Total	42
p-value	0.044

Table 3: Sample selected as sweeter by panelists, n = 36 (12 panelists x 3 reps). Power = 75%

Samples	**Total**
300ppm Rebaudioside A	16
250ppm Compound 18	20
Total	36
p-value	0.681

Table 4: Sample selected as sweeter by panelists, n = 45 (15 panelists x 3 reps). Power = 84%

Samples	**Total**
300ppm Rebaudioside A	29
300ppm Compound 1	16
Total	45
p-value	0.072

Example 65: Check-All-That-Apply Testing

[0474] Check-all-that-apply testing (i.e., CATA) is used to determine the presence of offtastes in samples, including Rebaudioside A and the test sweet compounds. Trained external panelists are used for the taste tests.

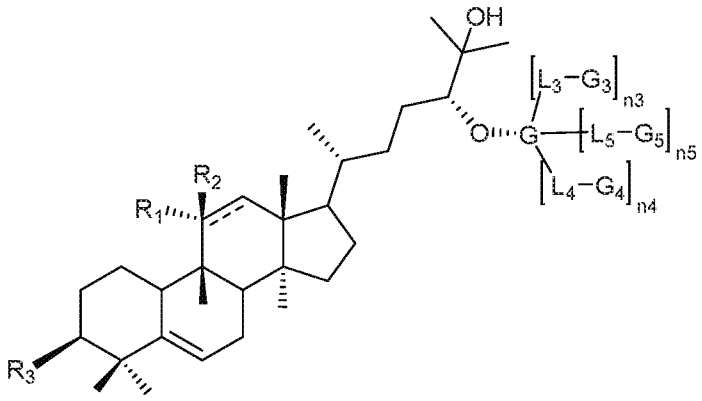
[0475] In CATA tests, compound solutions are tested along with 300ppm Rebaudioside A to determine the presence of various attributes. Panelists tasted samples and are presented with a list of attributes and then instructed to indicate which attributes they perceived in each sample. Panelists rinsed their mouths with water prior to starting any test. Samples are presented to panelists in randomized, counterbalanced order and were labeled with 3-digit blinding codes. Panelists rinse with water between samples. There is a 60 second delay to clear the mouth of any tastes after each sample evaluation. One replicate of each test is performed.

[0476] The CATA data is tabulated and presented as the percentage of panelists that selected each attribute for each sample in the test. These studies are used to get a qualitative feel for a compound's overall taste profile. The test uncovers any significant undesired side tastes. Attributes queried include anise, astringent, bitter, cooling, delayed onset, lingering, metallic, numbing, salt, solvent, sour, sweet and umami. Compounds described herein, include Compounds 1-35 are tested. The results identifies compounds having high sweet taste with low levels of off tastes (e.g., low levels of bitter off taste).

[0477] While the invention has been described with reference to the specific embodiments thereof, it should be understood by those skilled in the art that various changes may be made and equivalents may be substituted without departing from the true spirit and scope of the invention. This includes embodiments which do not provide all of the benefits and features set forth herein. In addition, many modifications may be made to adapt a particular situation, material, composition of matter, process, process step or steps, to the objective, spirit and scope of the present invention. All such modifications are intended to be within the scope of the claims appended hereto. Accordingly, the scope of the invention is defined only by reference to the appended claims.

WHAT IS CLAIMED IS:

1. A compound having the structure of formula (I):

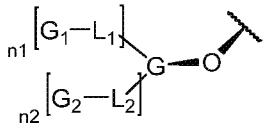


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and  ;

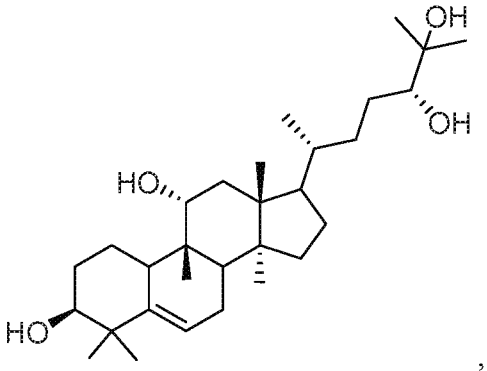
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

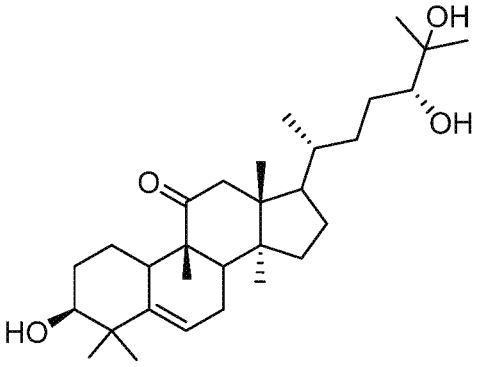
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

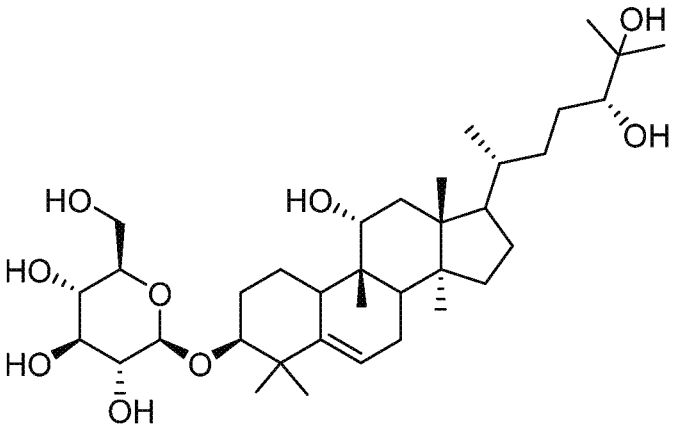
with the proviso that formula (I) is not selected from:


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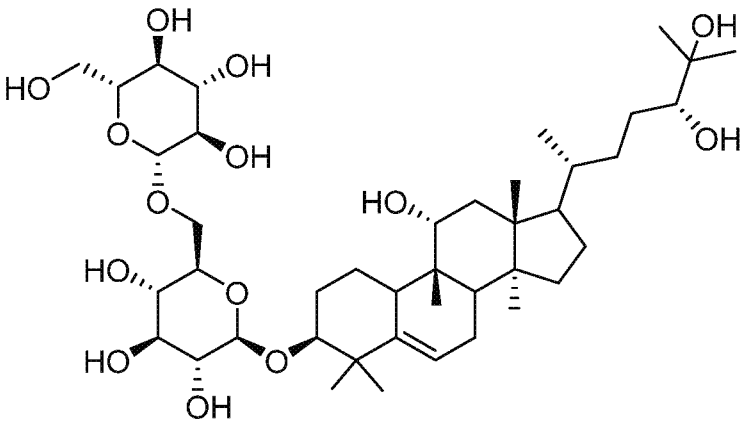
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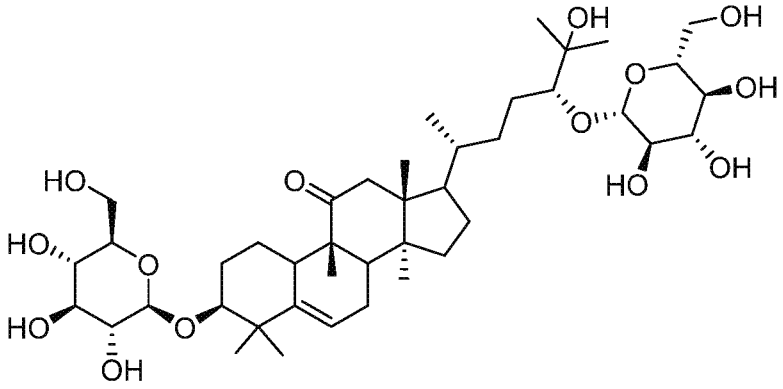
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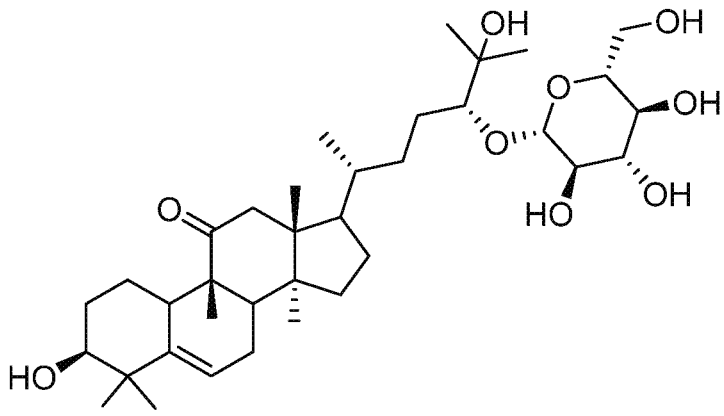
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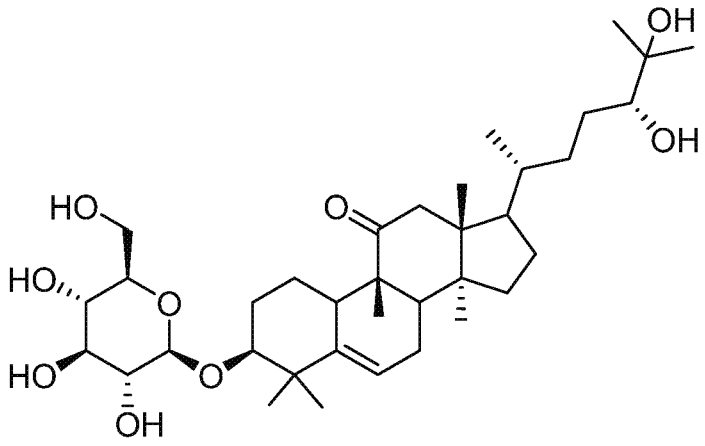
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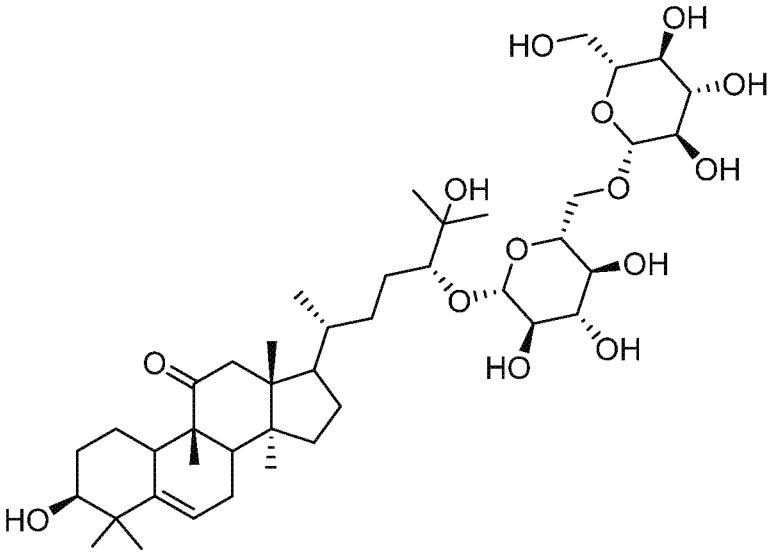
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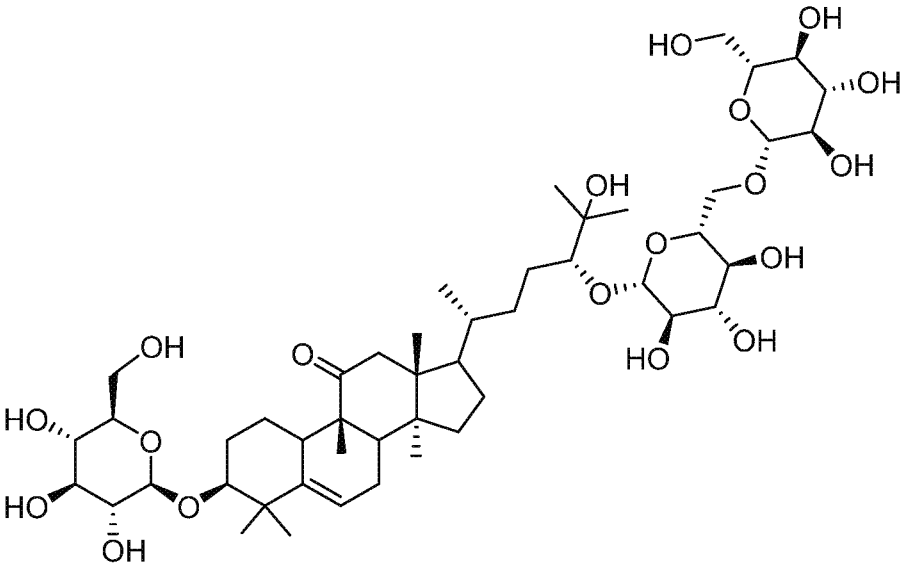
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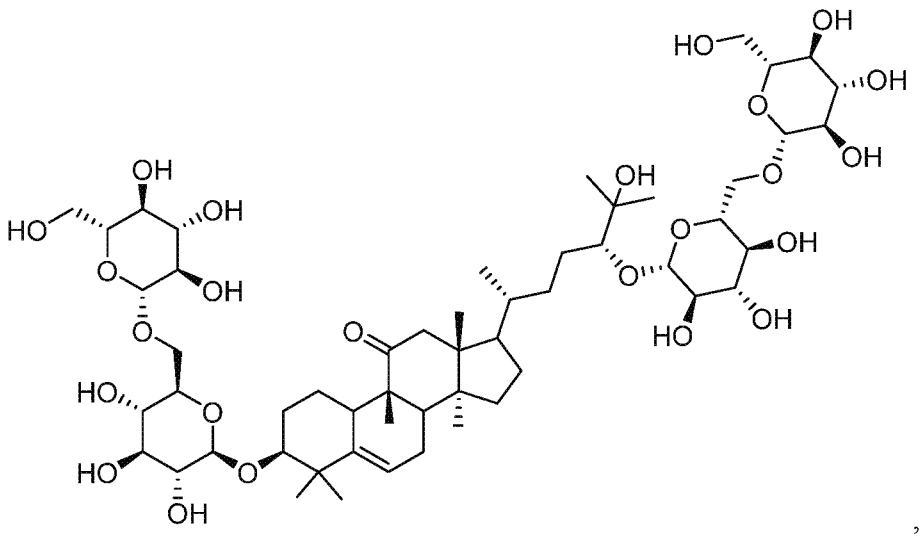
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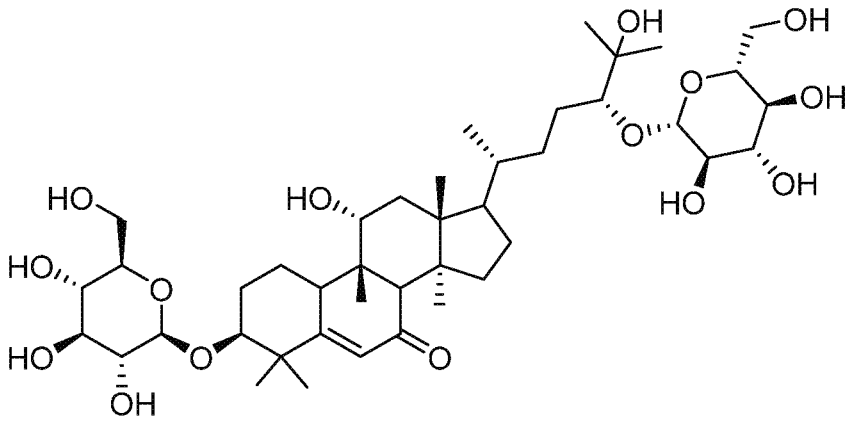
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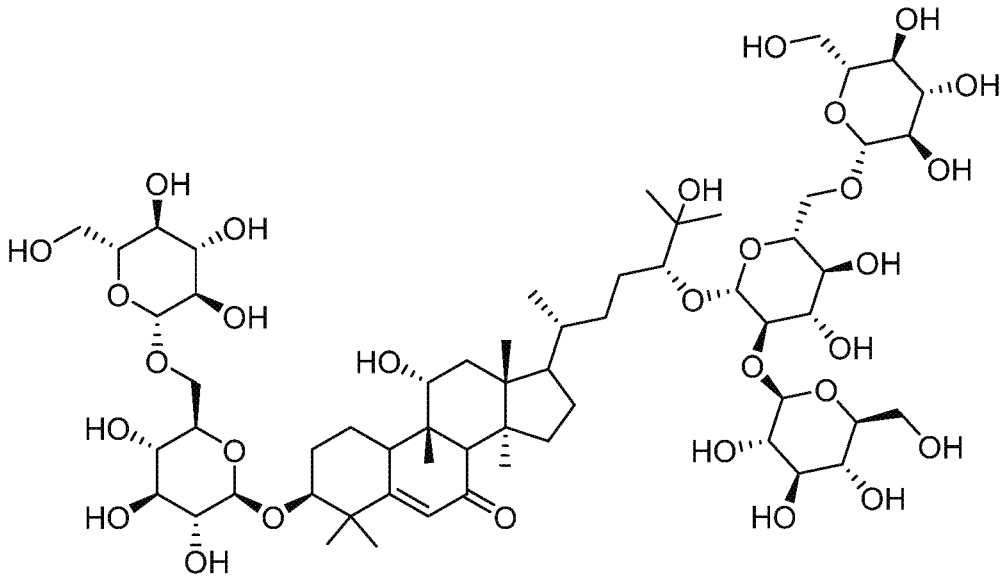
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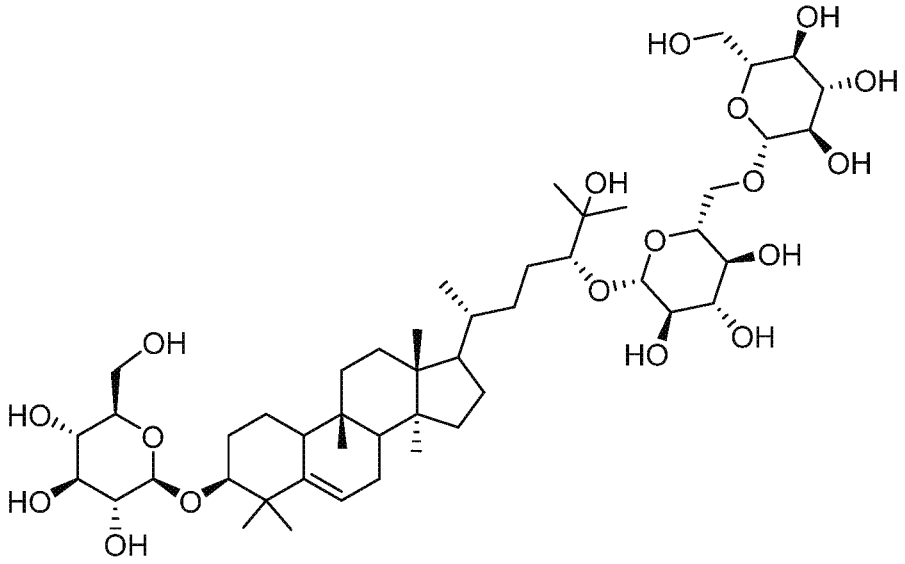
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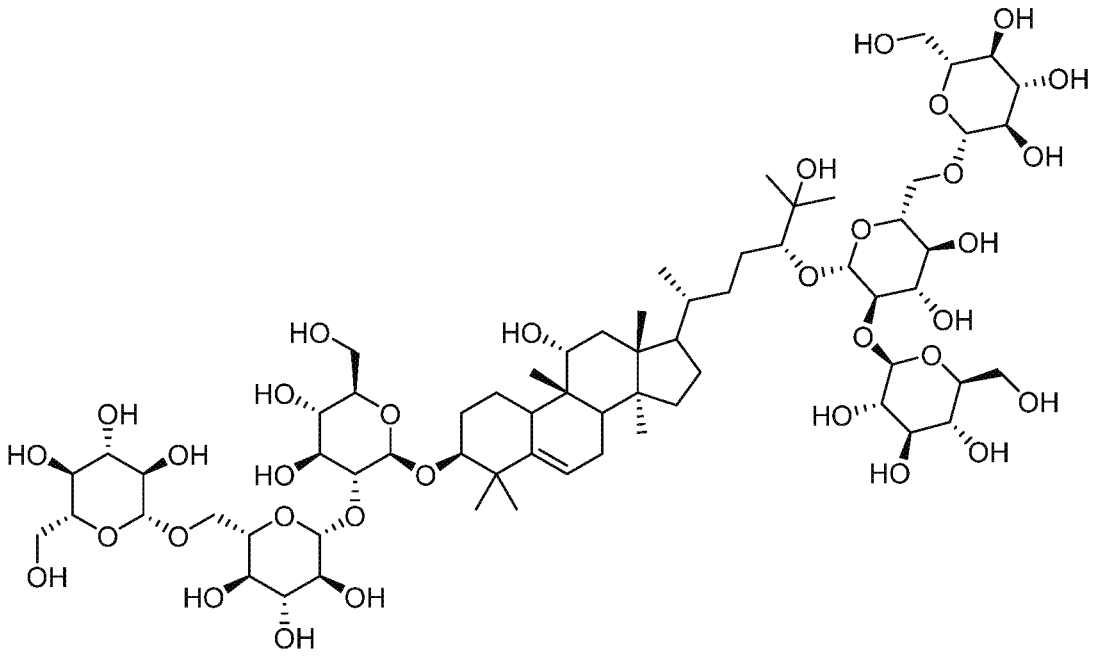
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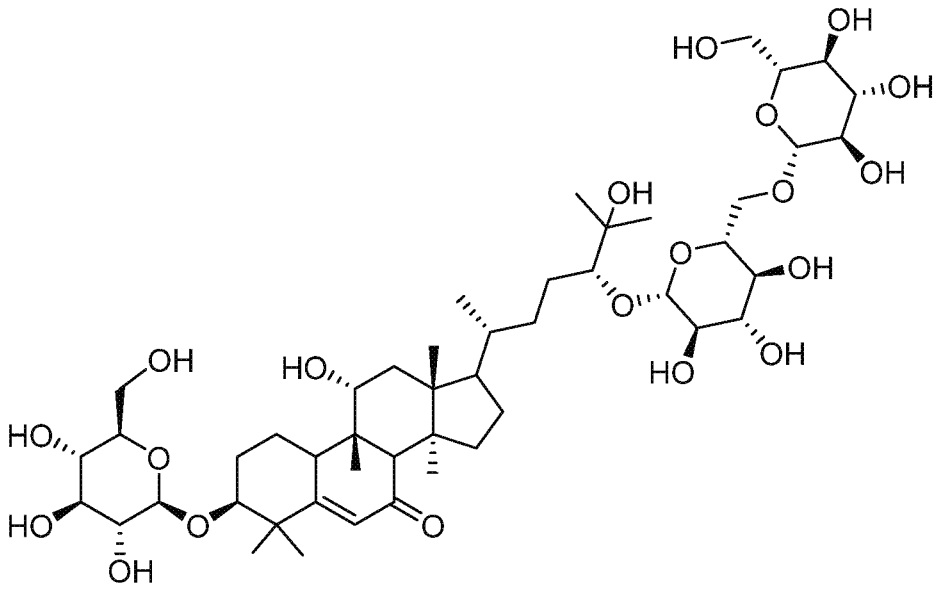
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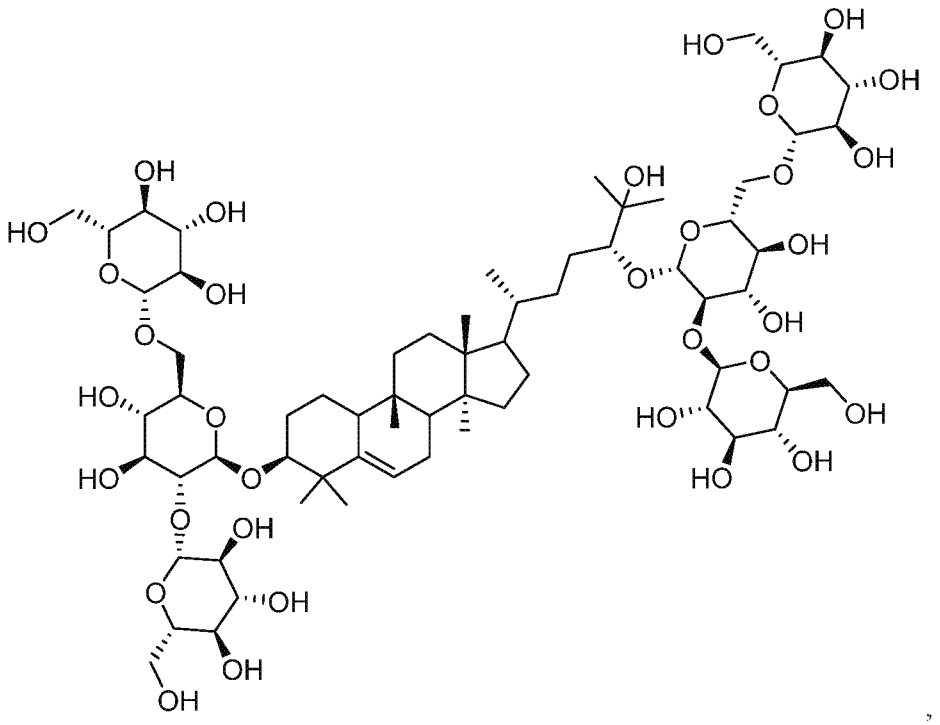


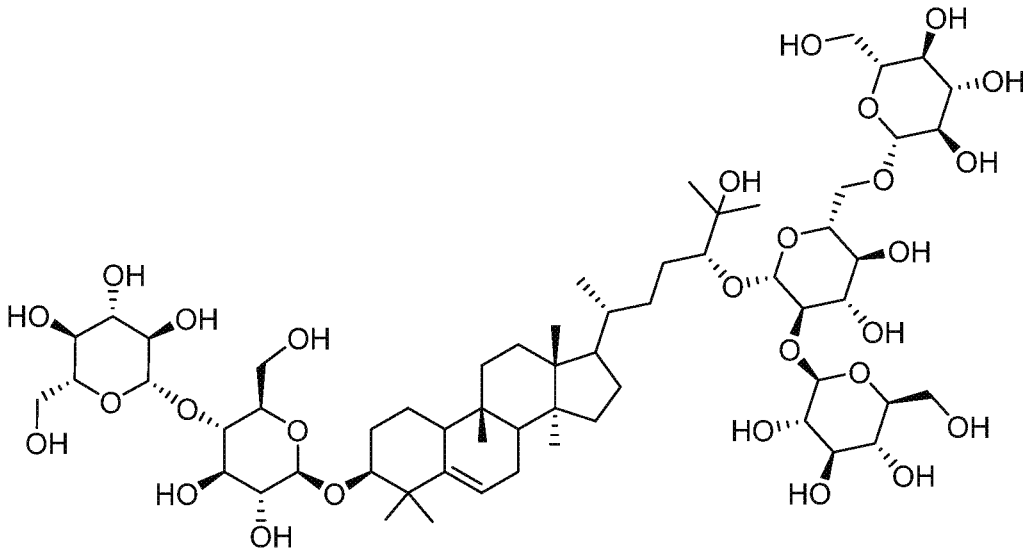
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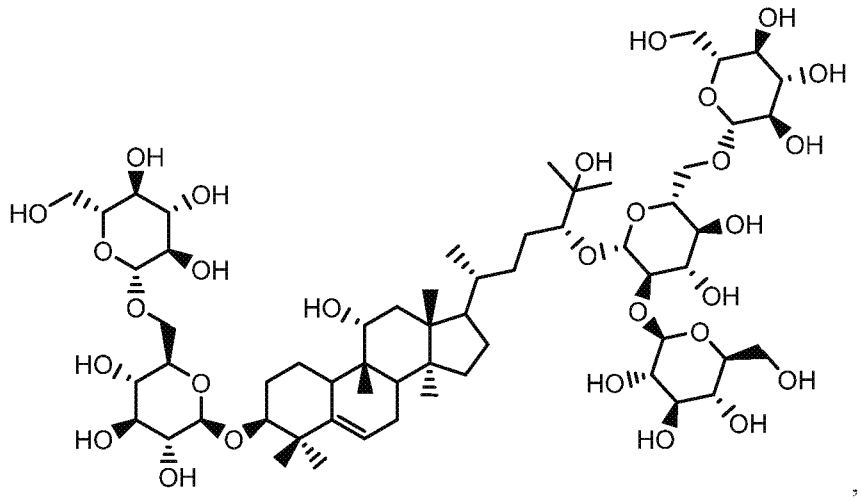


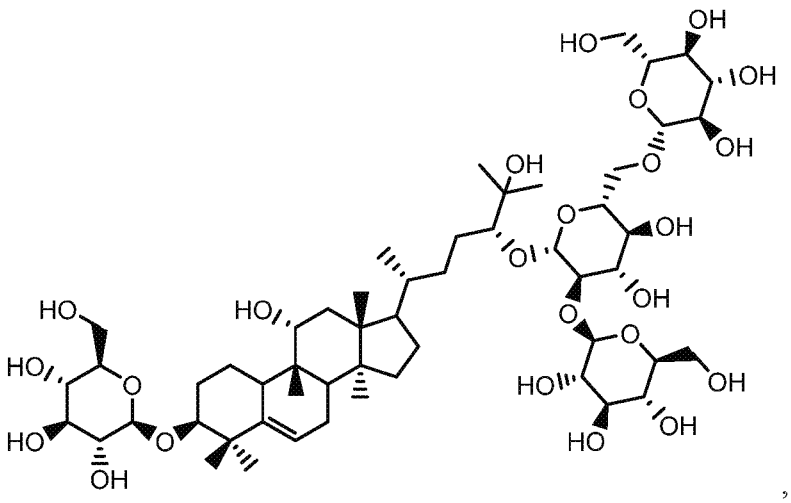
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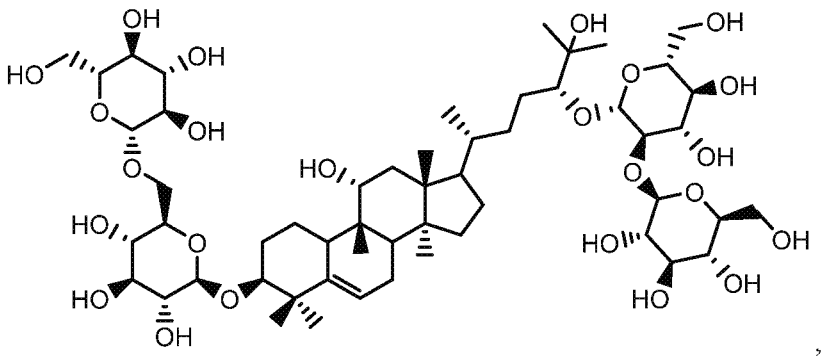




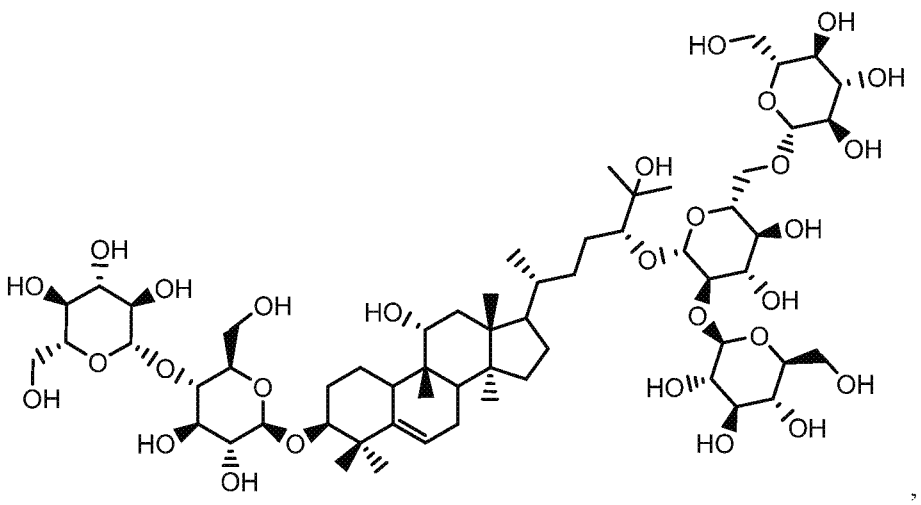




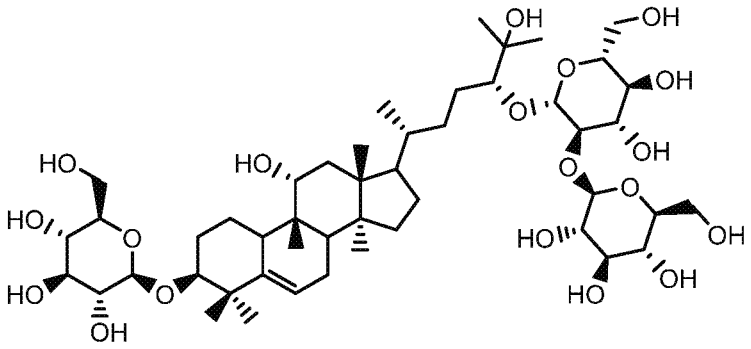




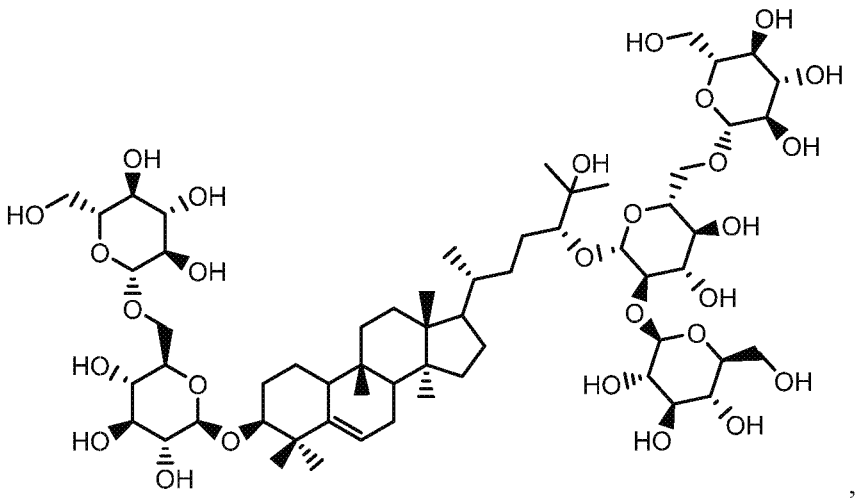
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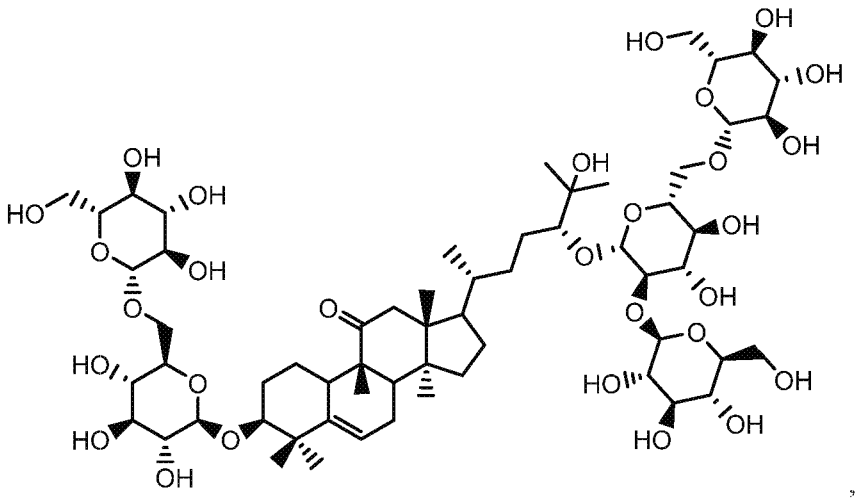
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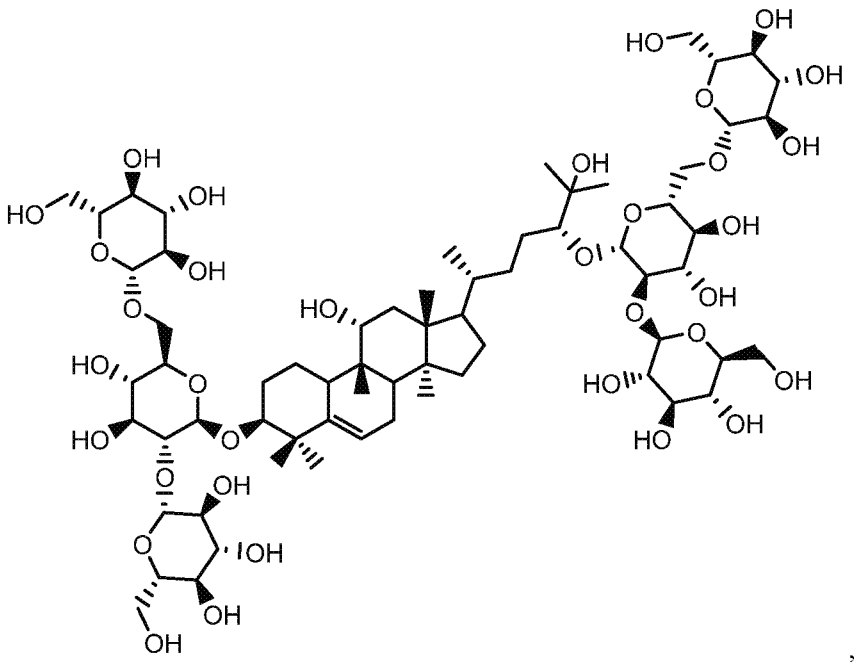
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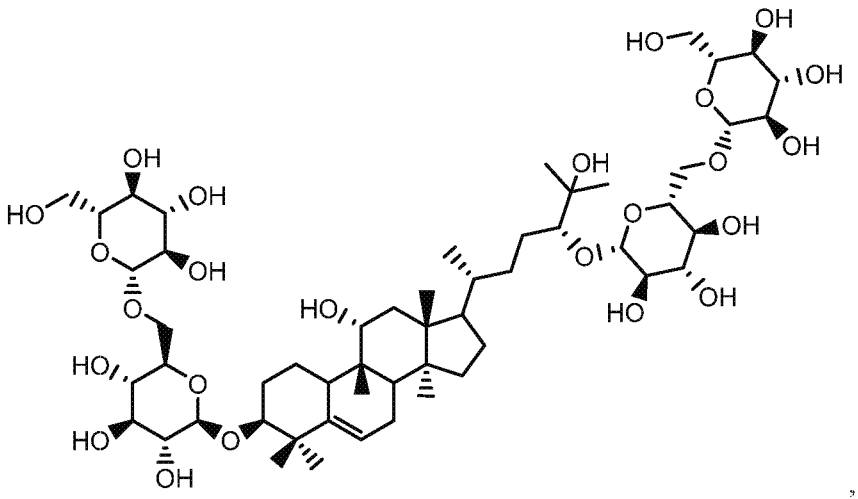


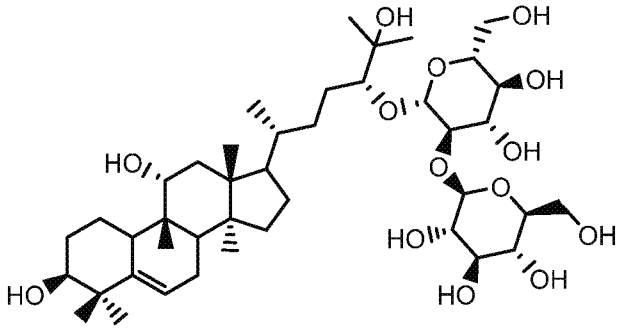
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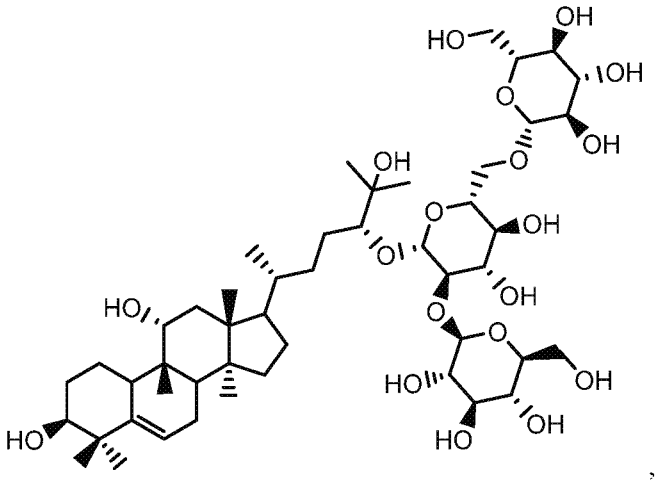


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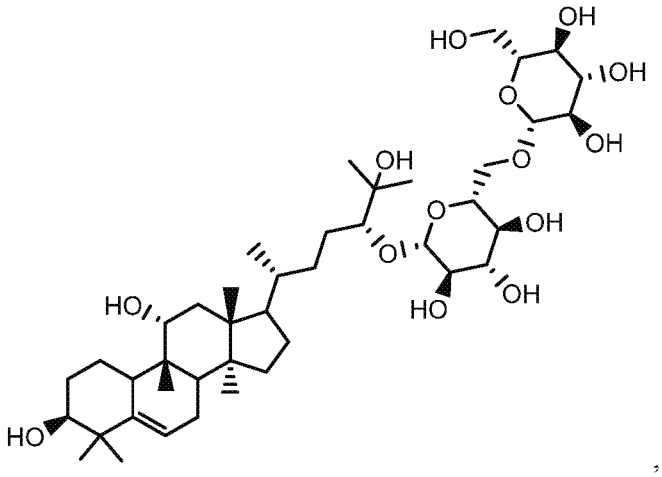




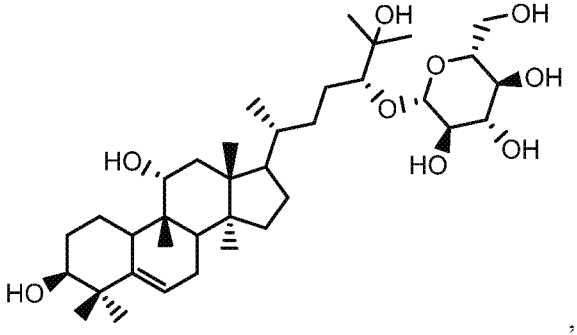




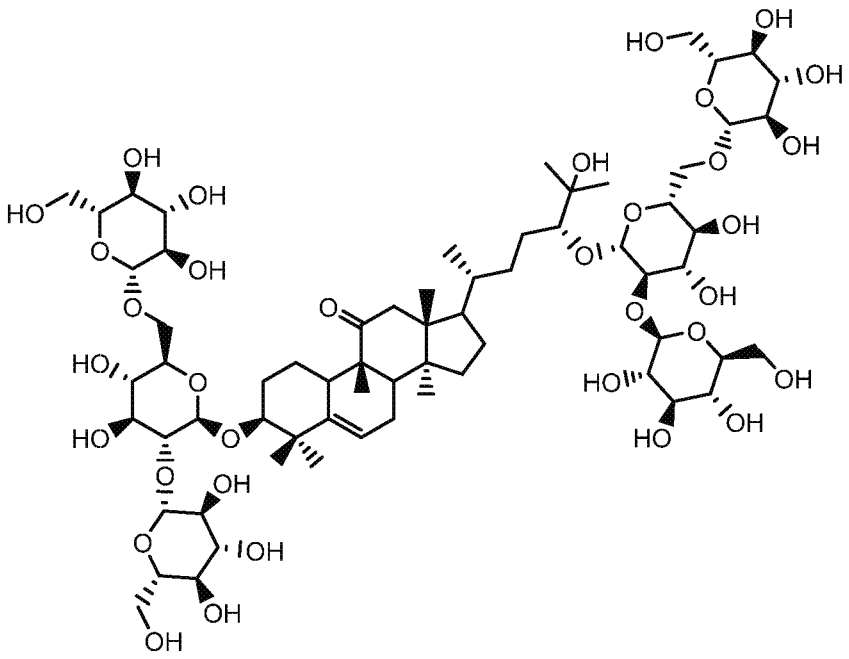
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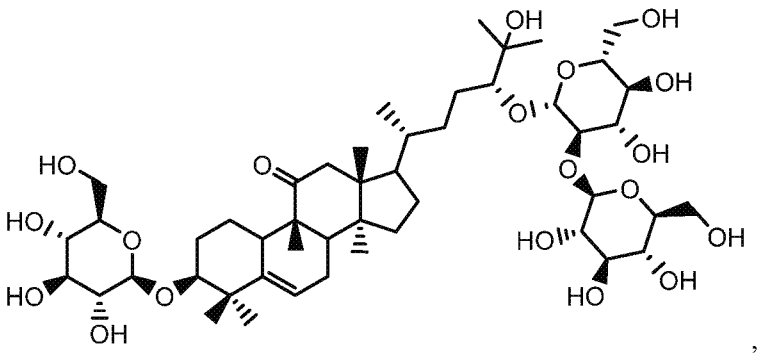
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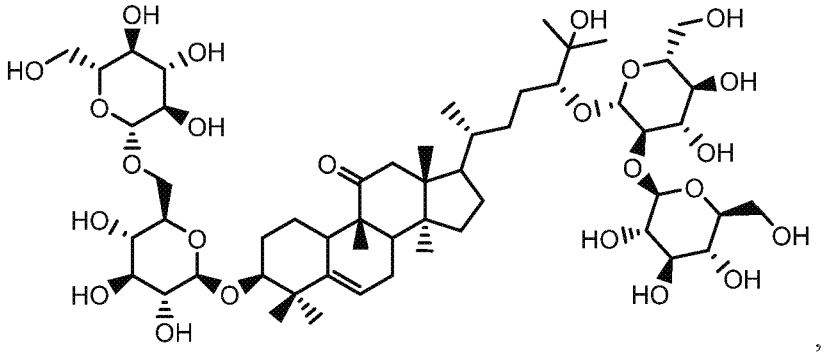
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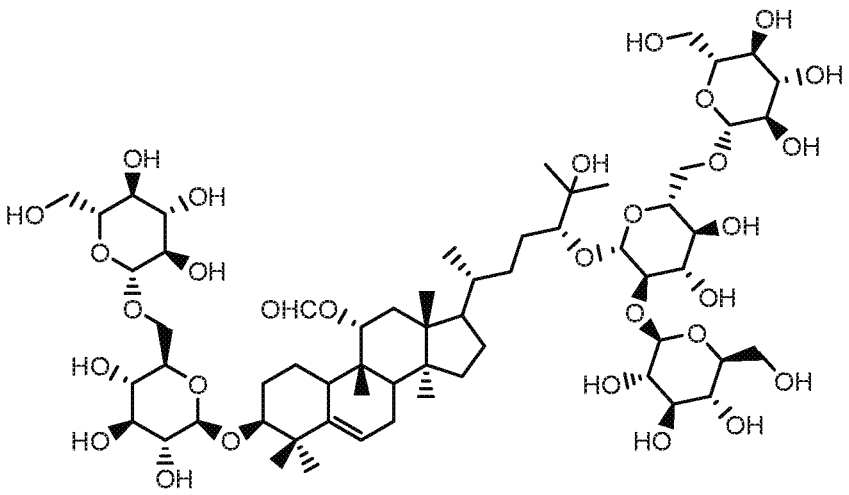
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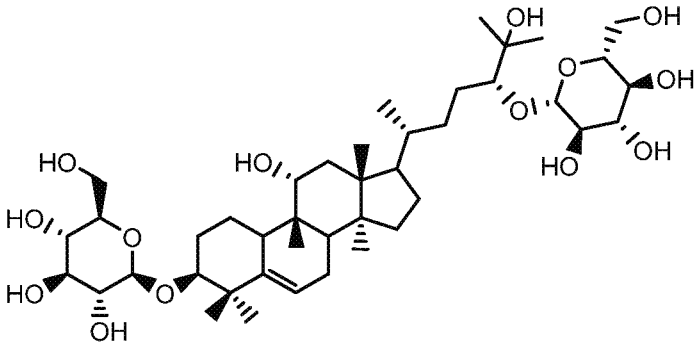
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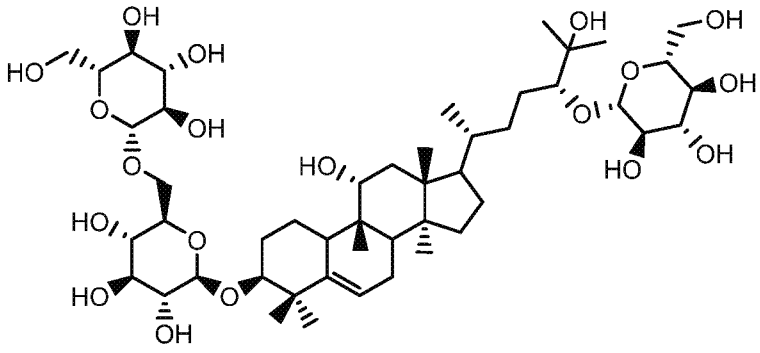
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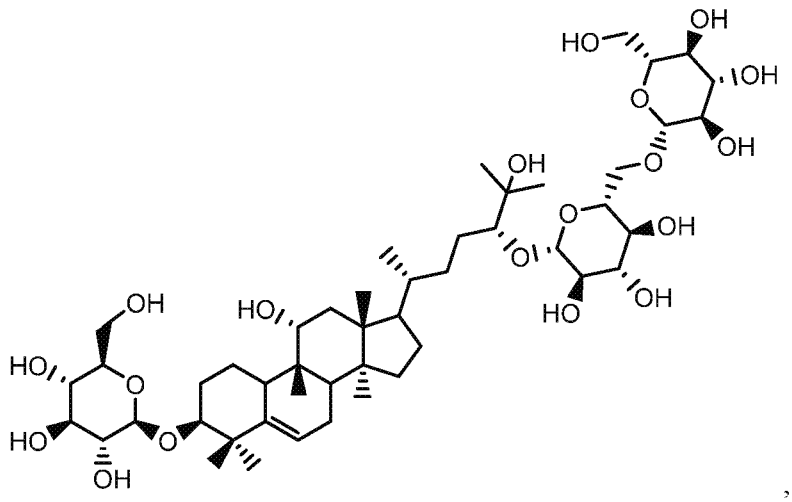
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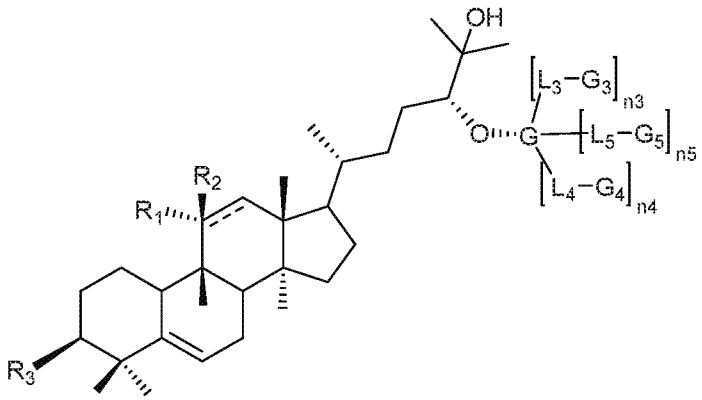


, and



wherein the compound is in isolated and purified form.

2. A compound having the structure of formula (I):

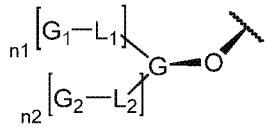


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and  ;

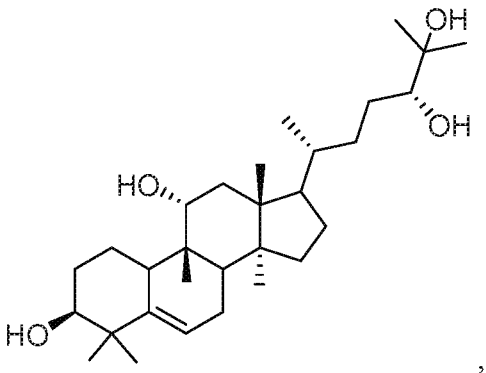
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

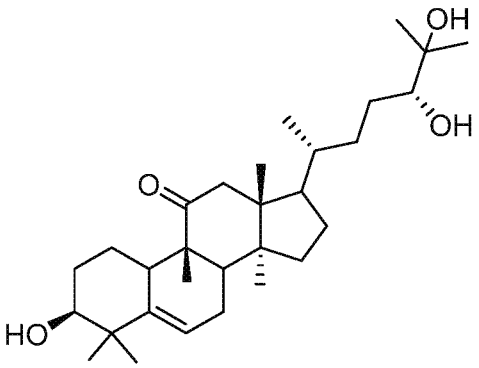
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

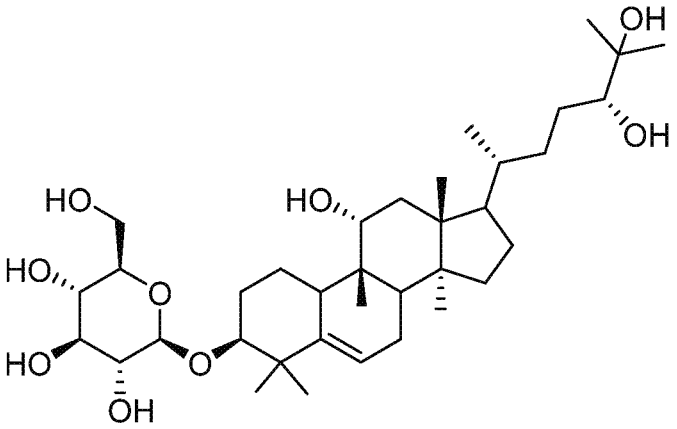
with the proviso that formula (I) is not selected from:



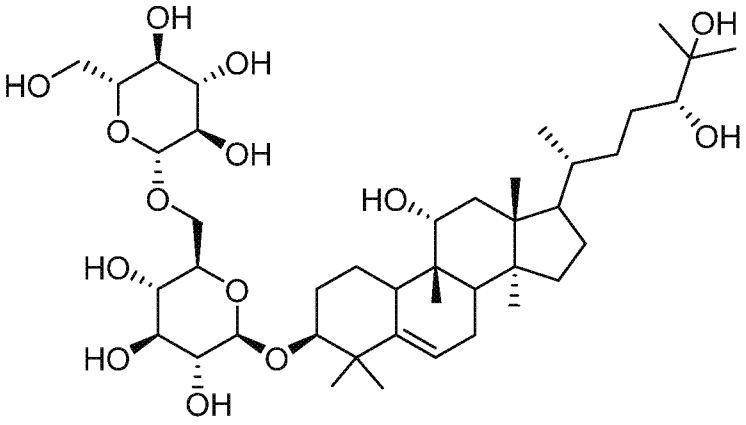
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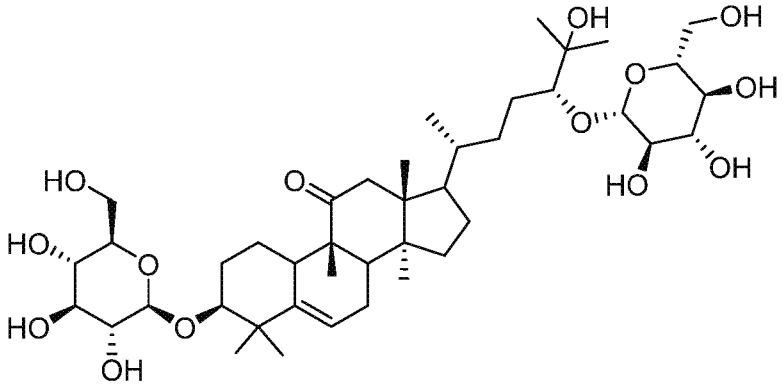
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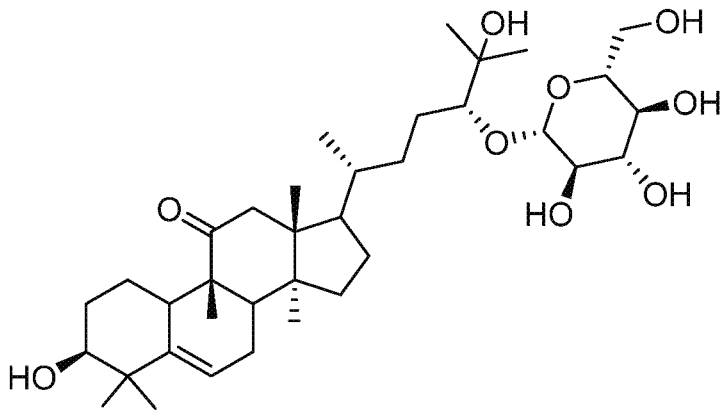
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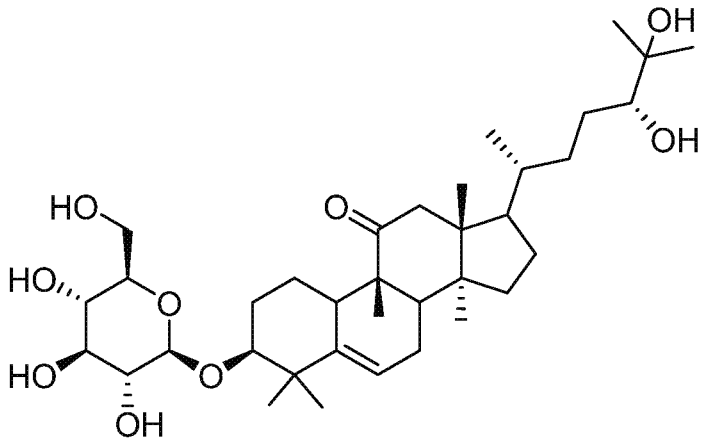
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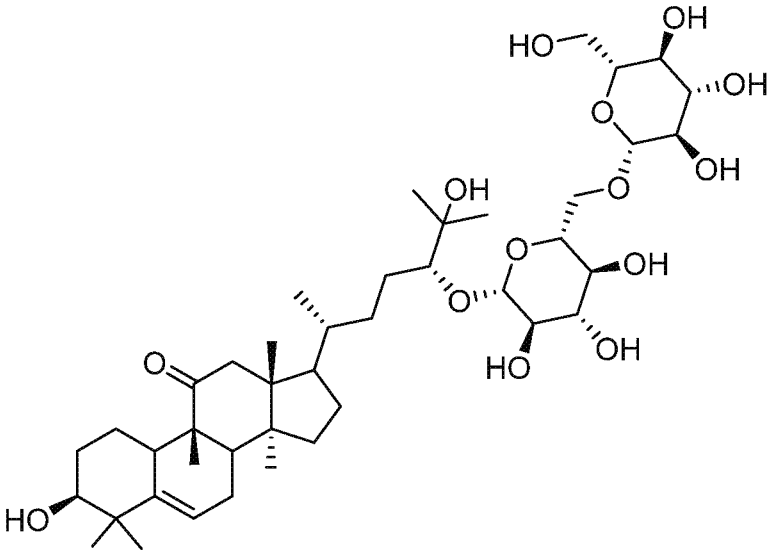
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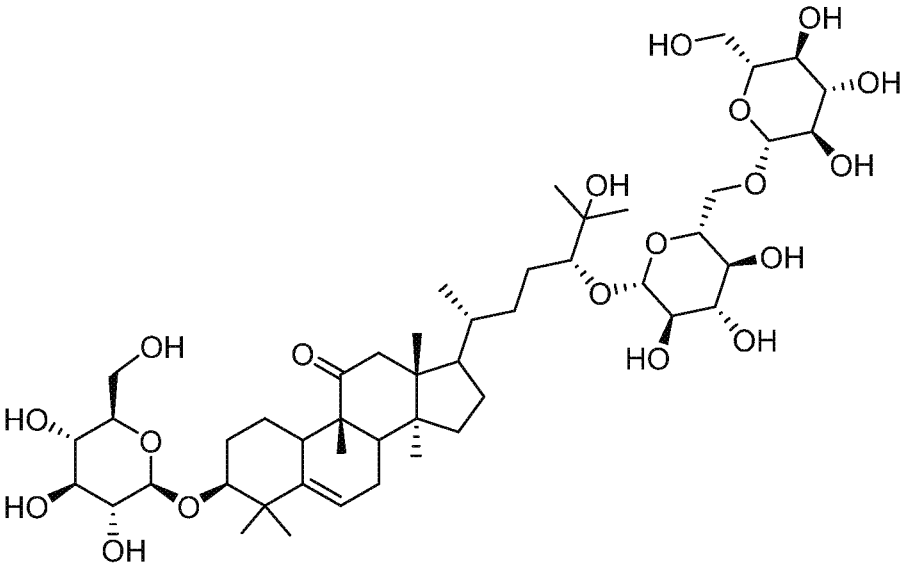
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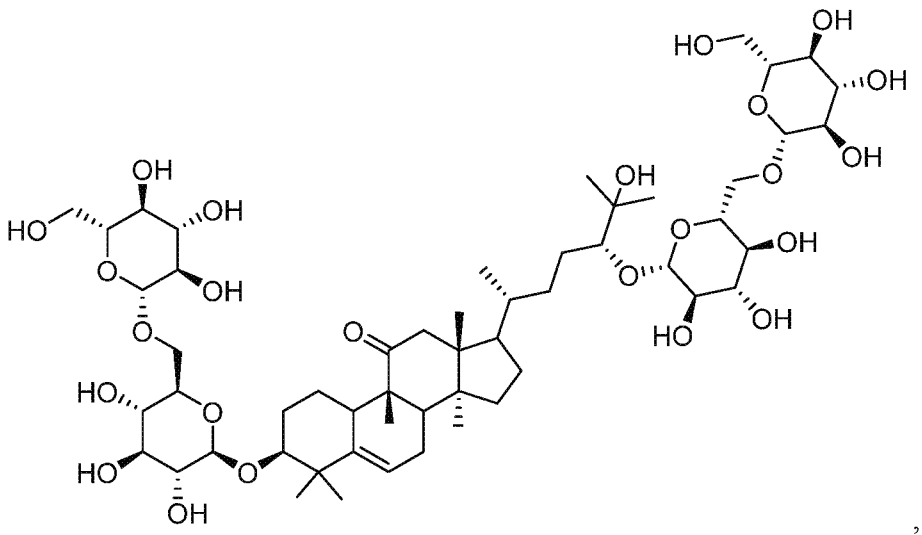
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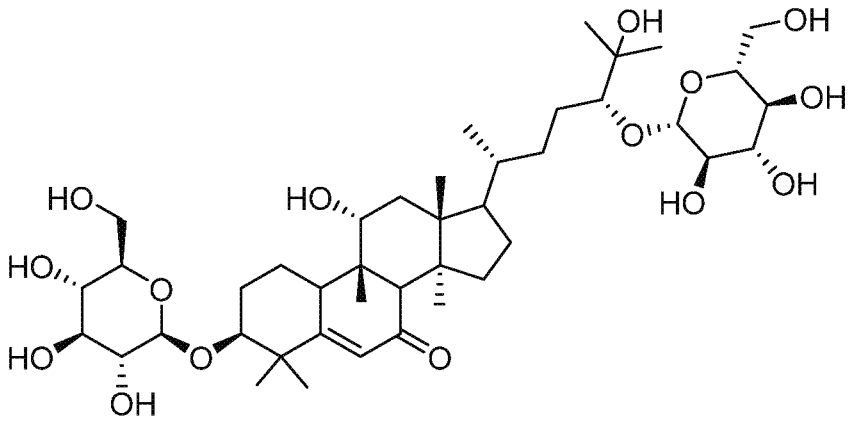
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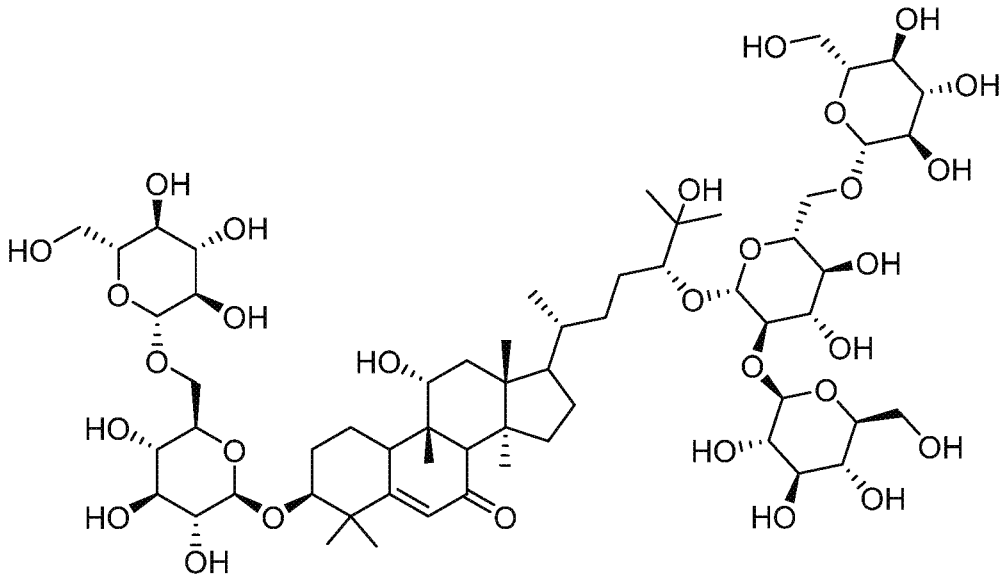
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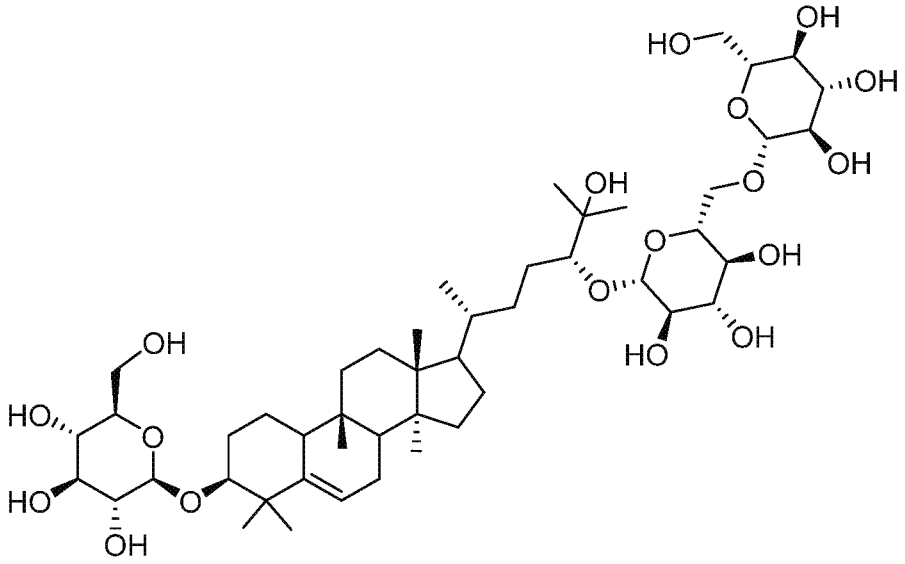
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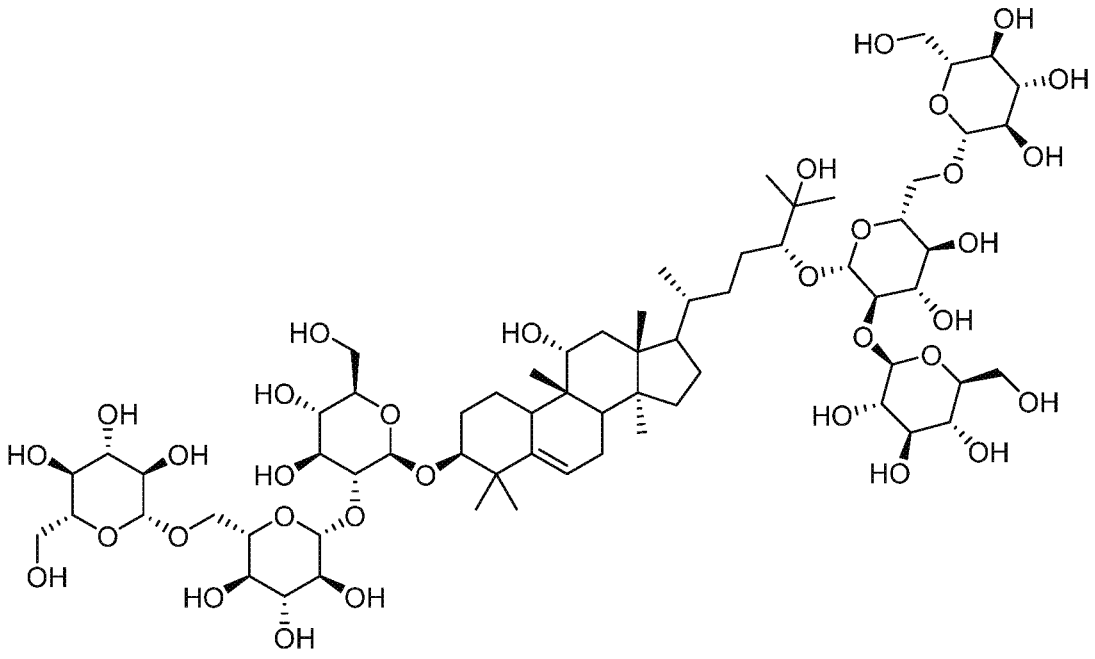
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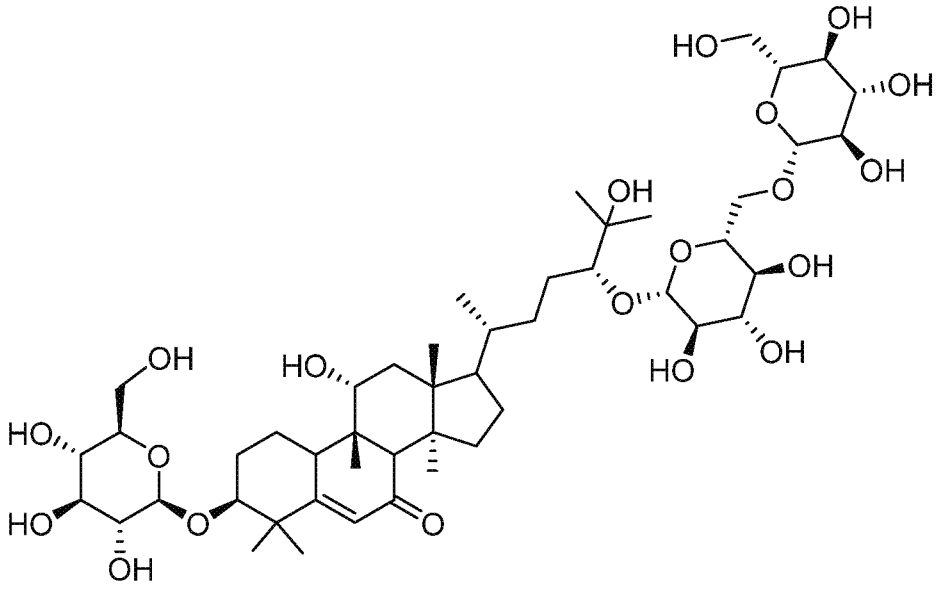
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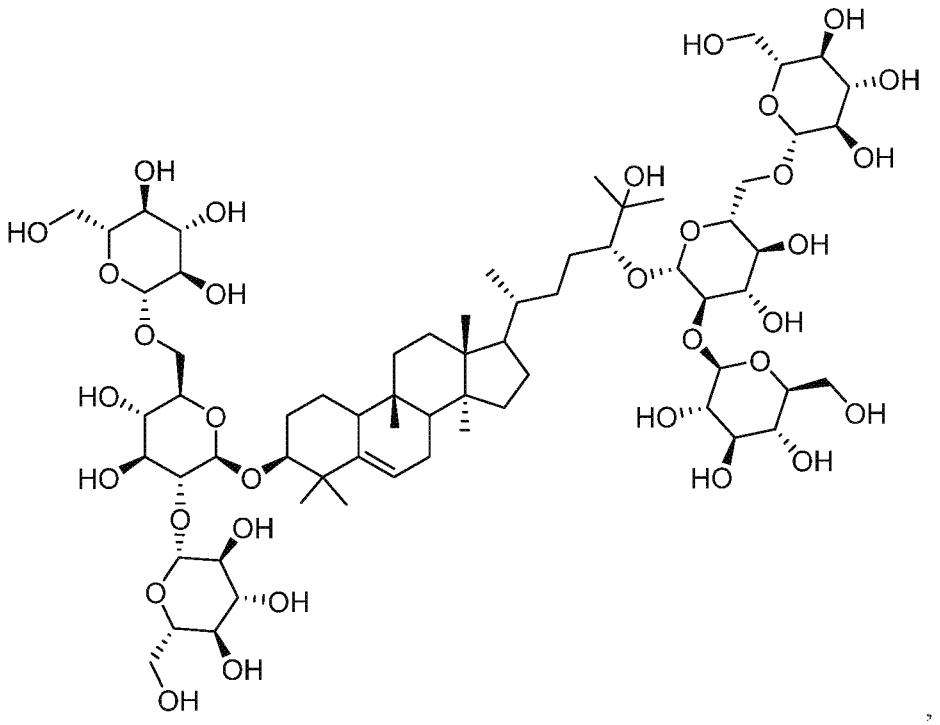


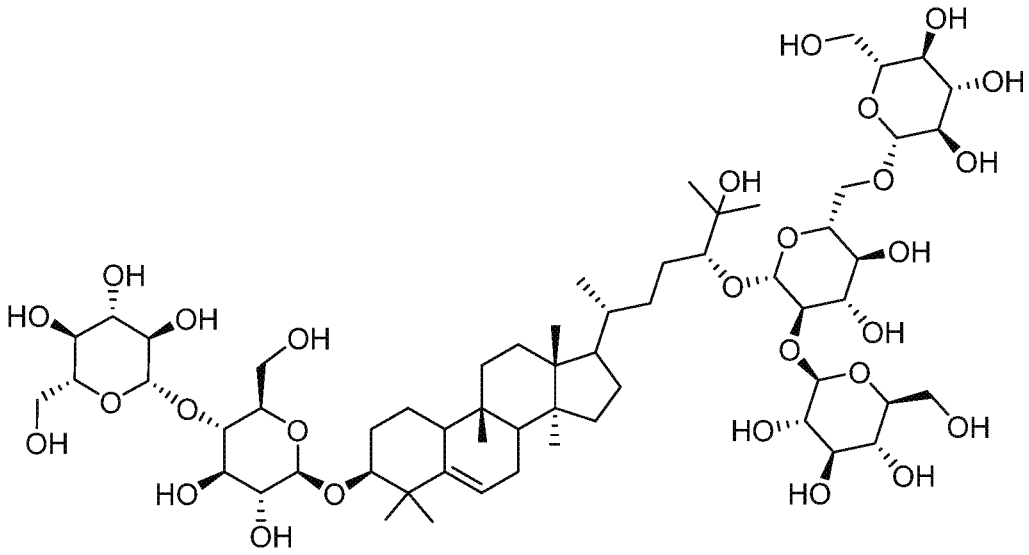
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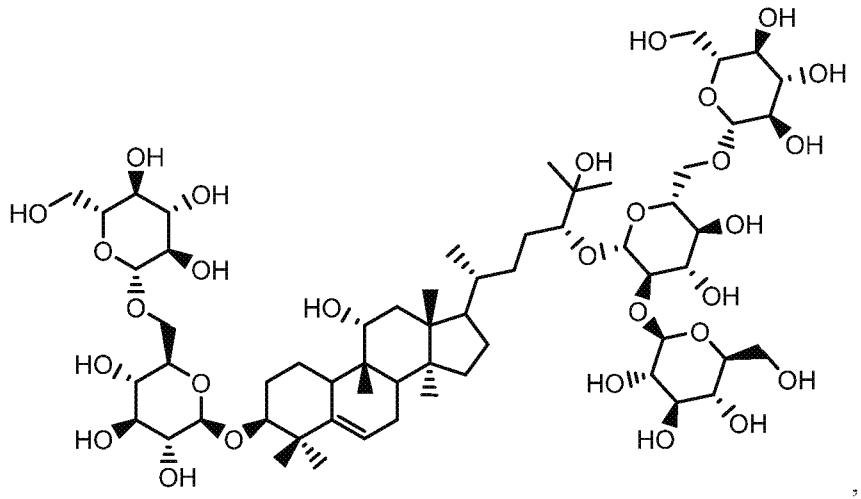


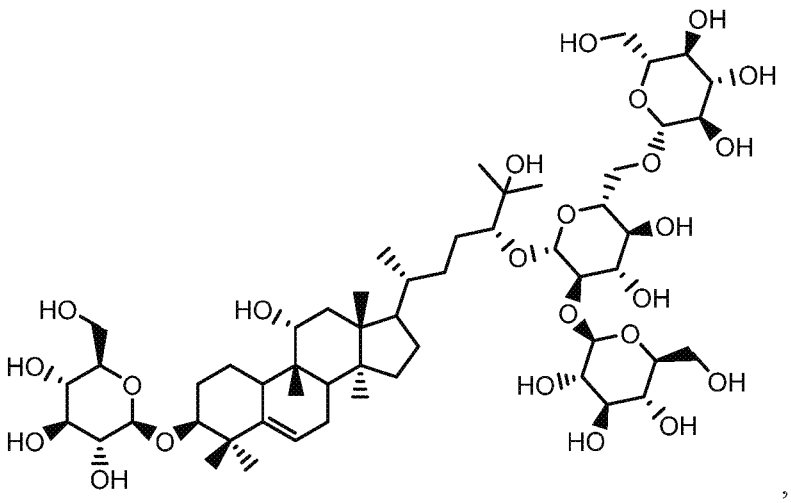
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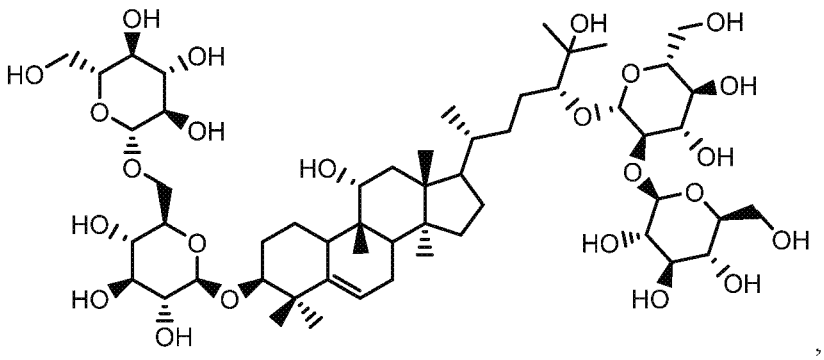




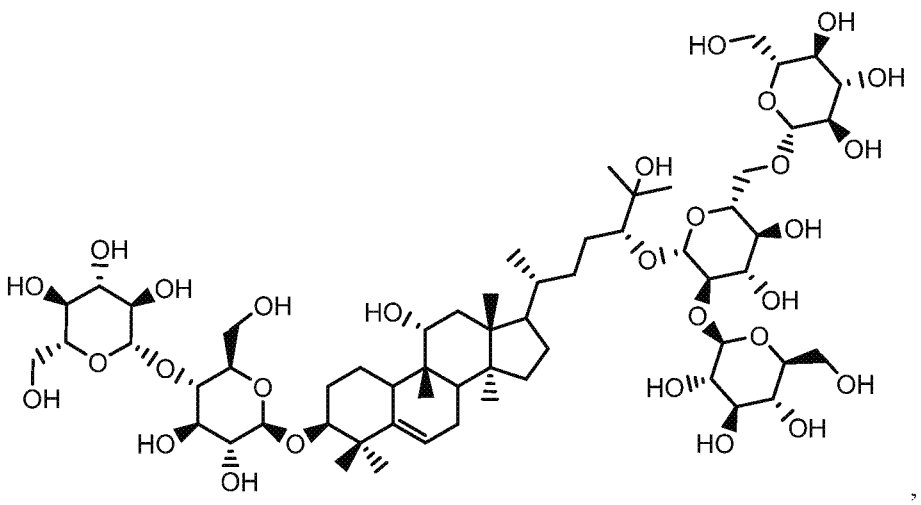




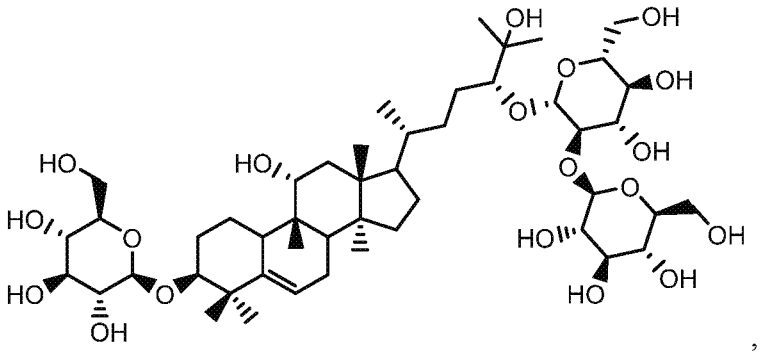




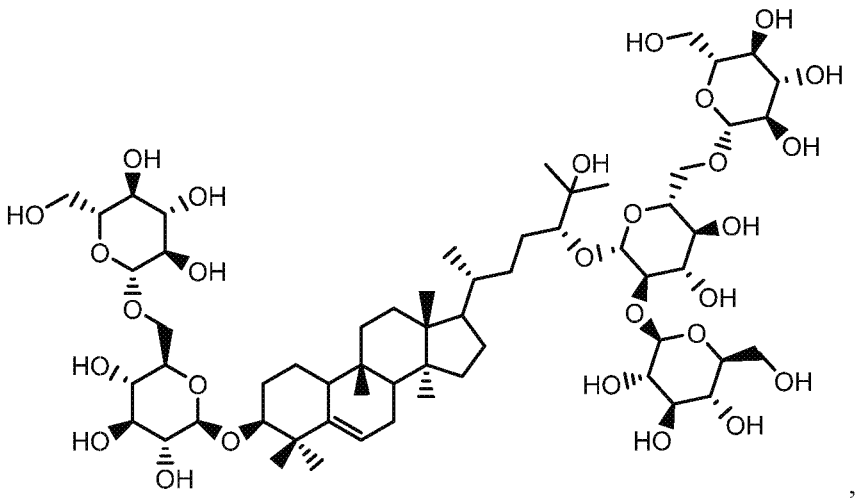
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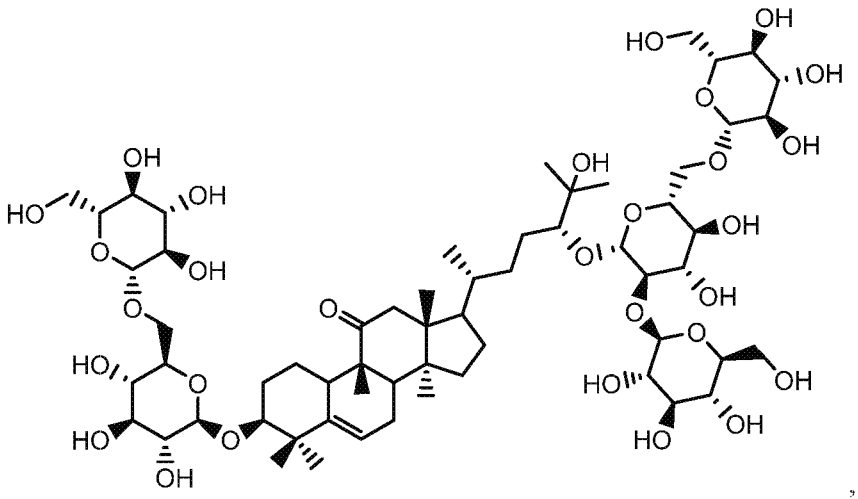
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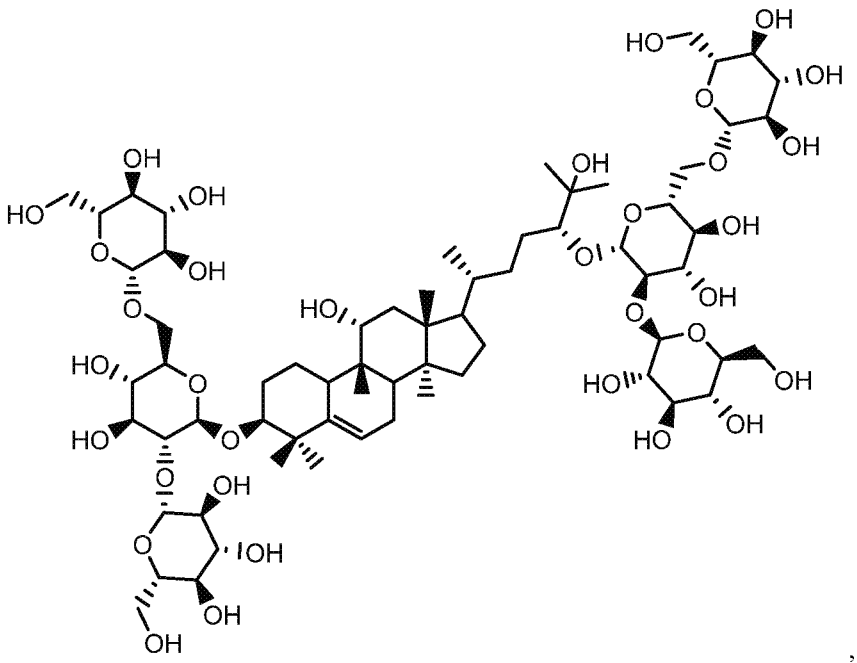
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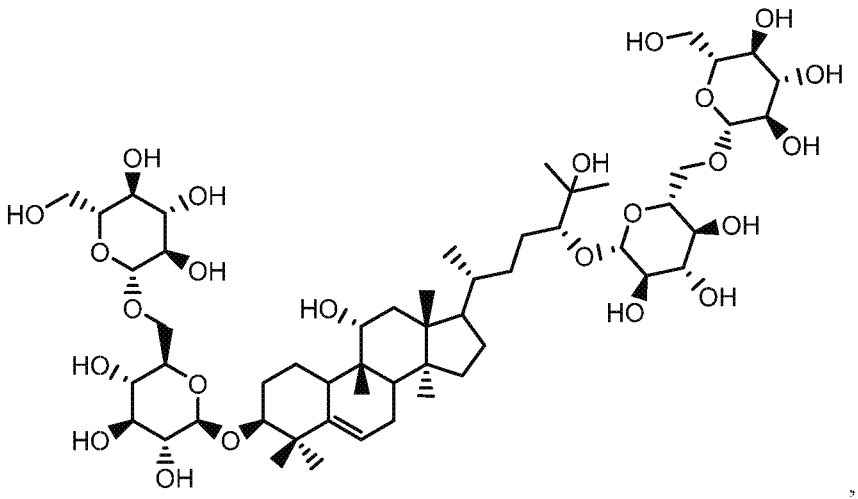


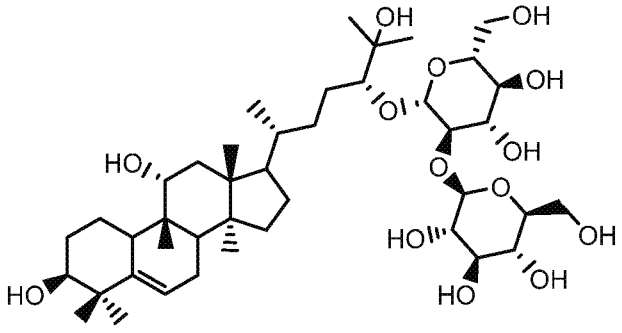
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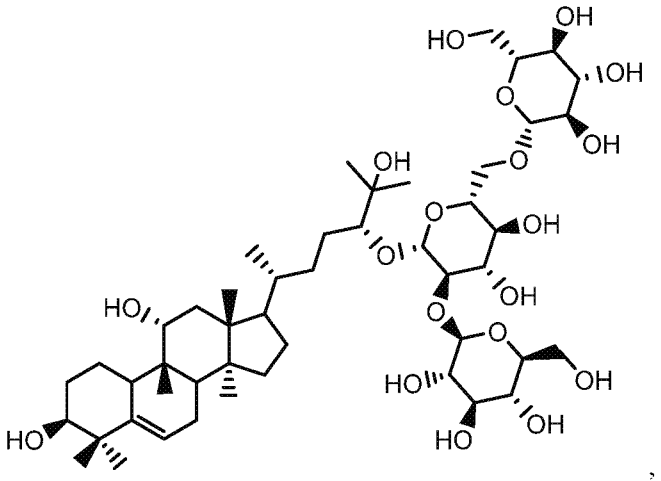


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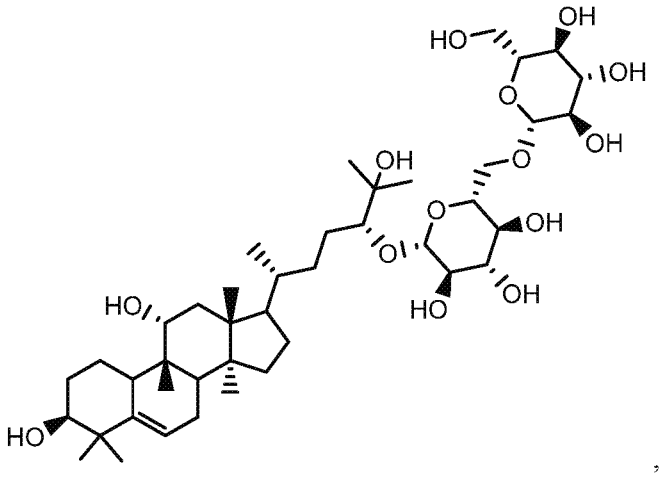




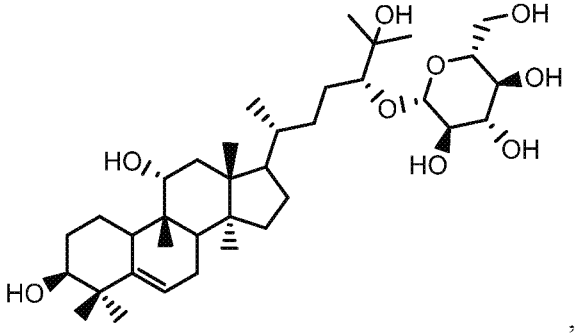




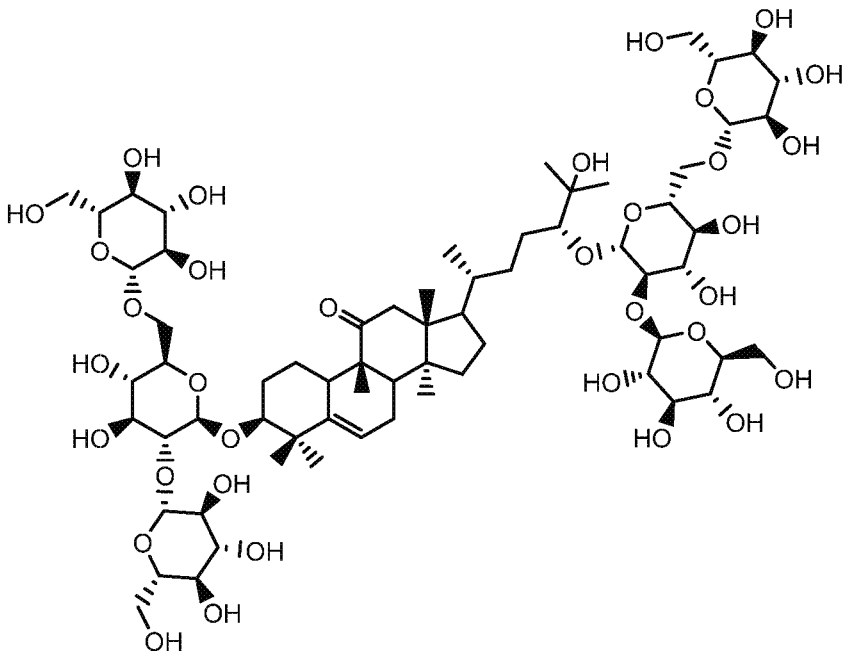
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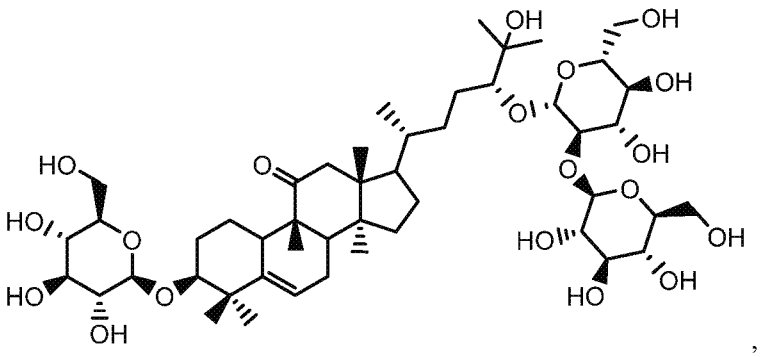
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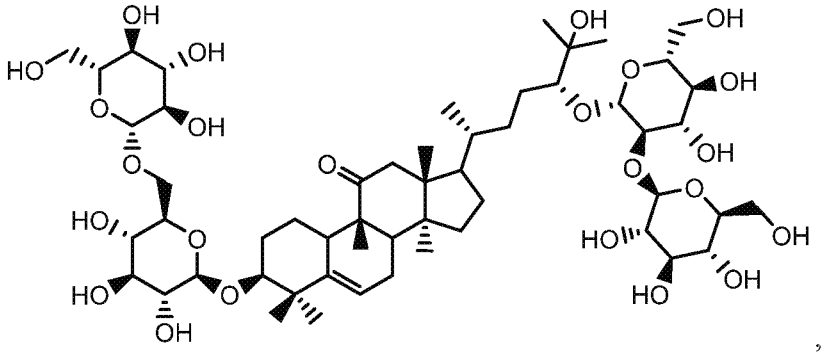
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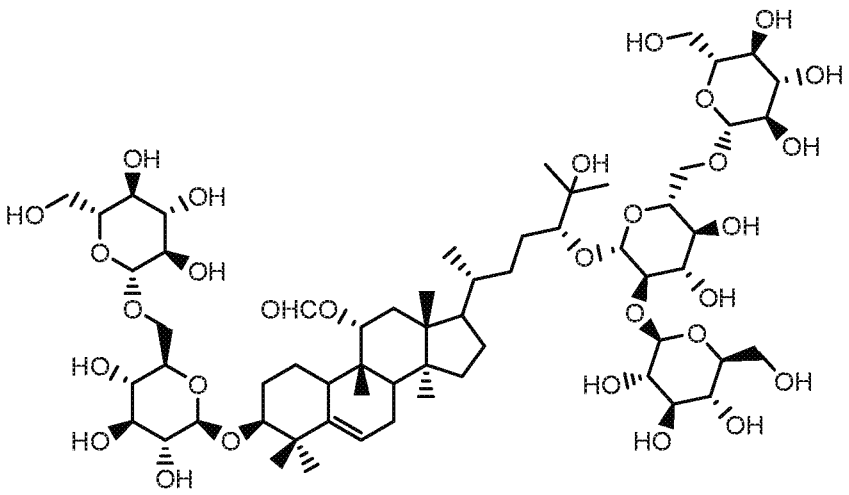
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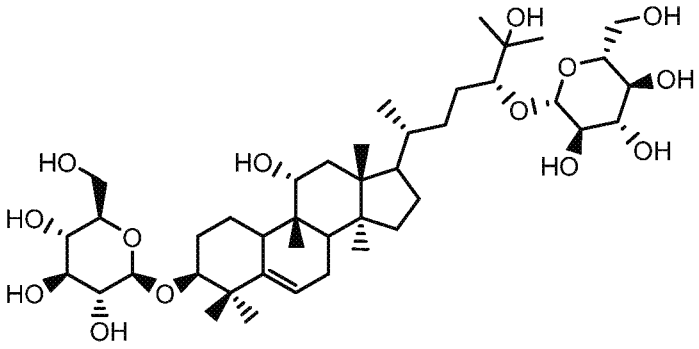
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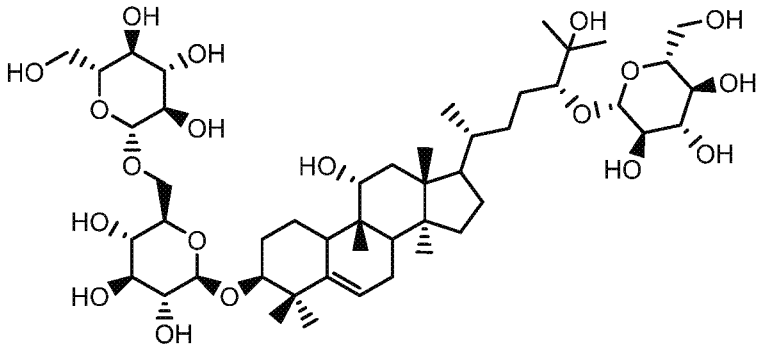
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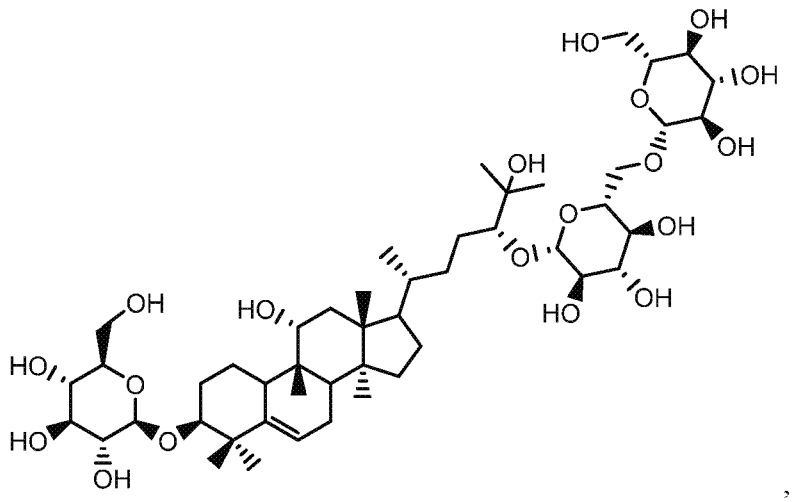
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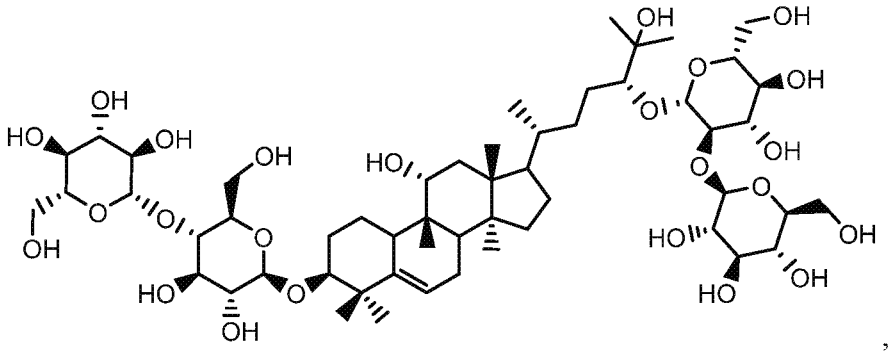
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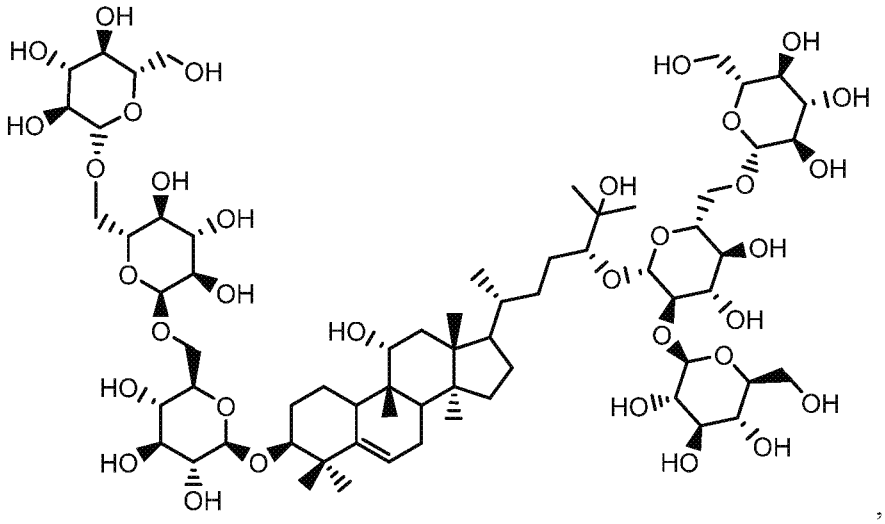
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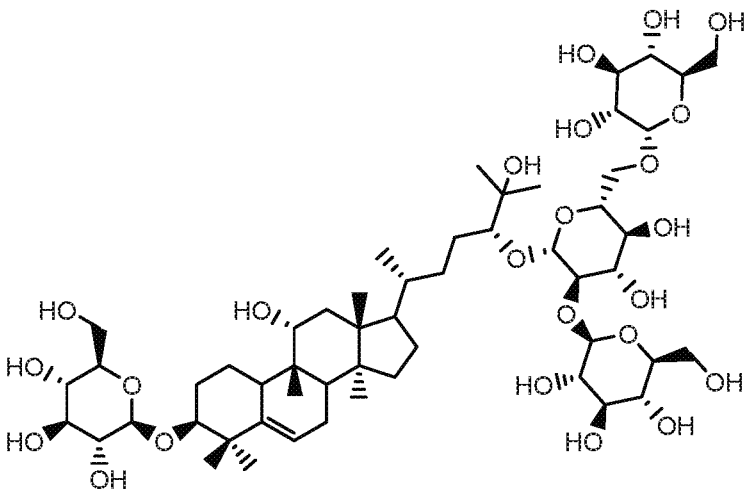
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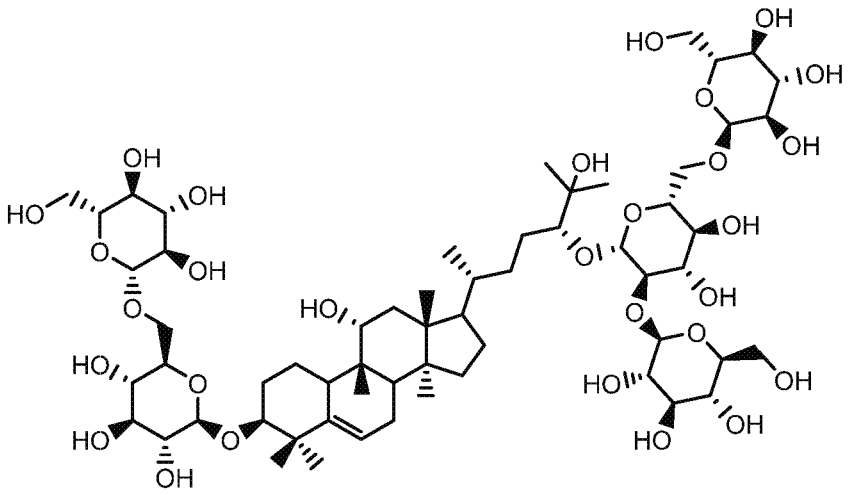
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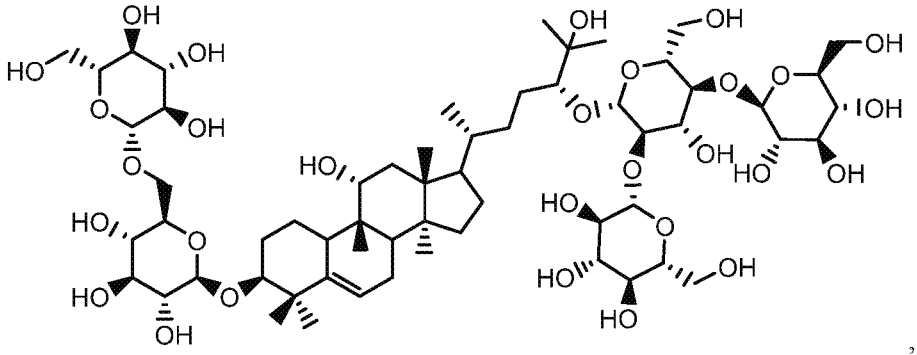
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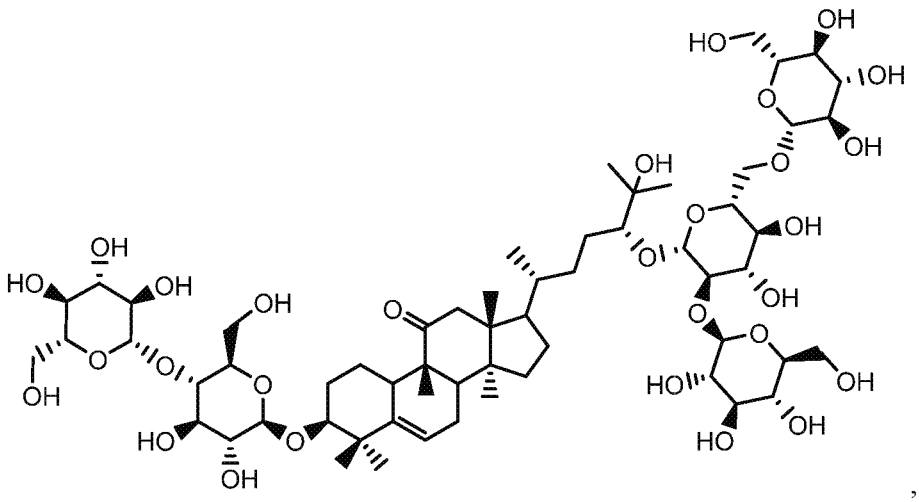
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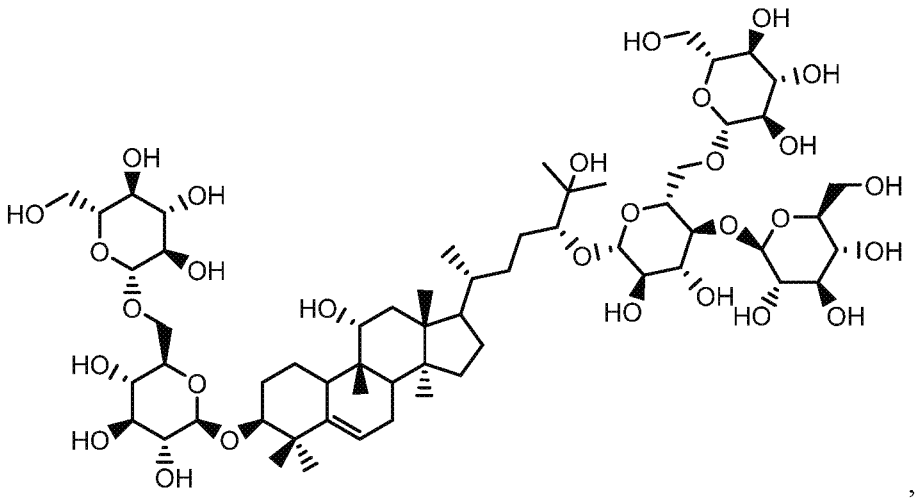
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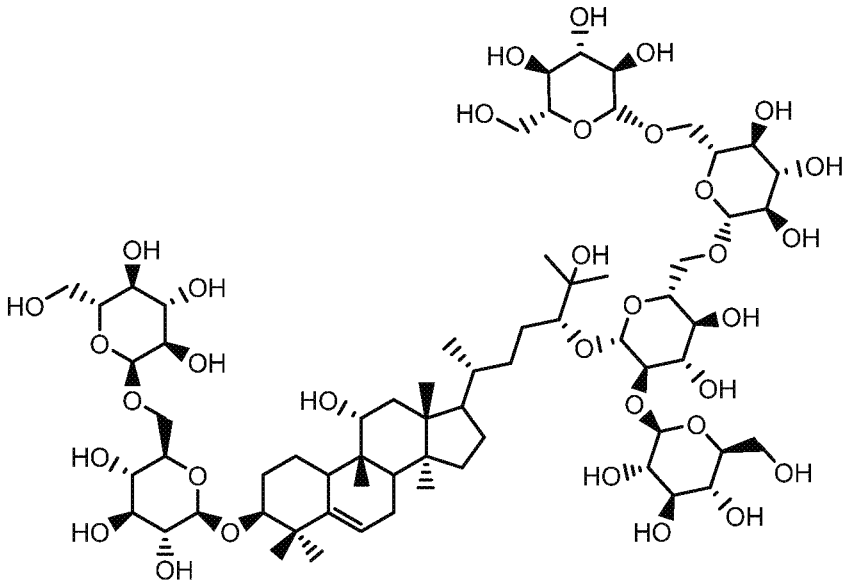
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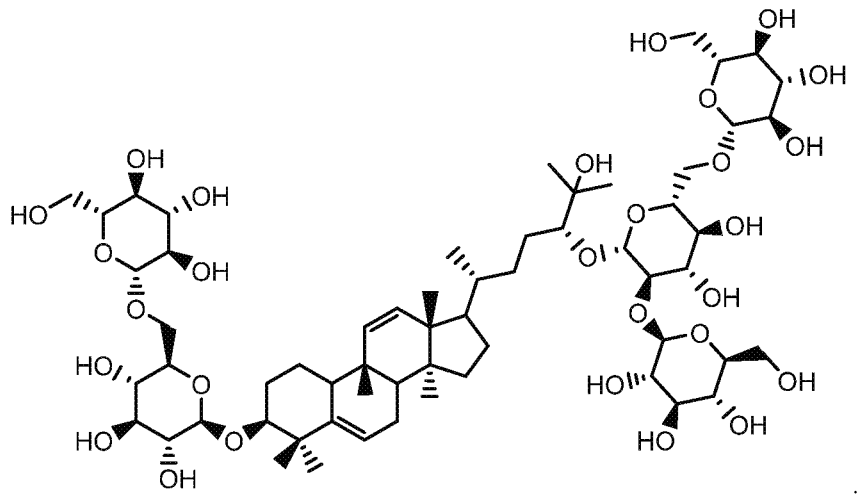
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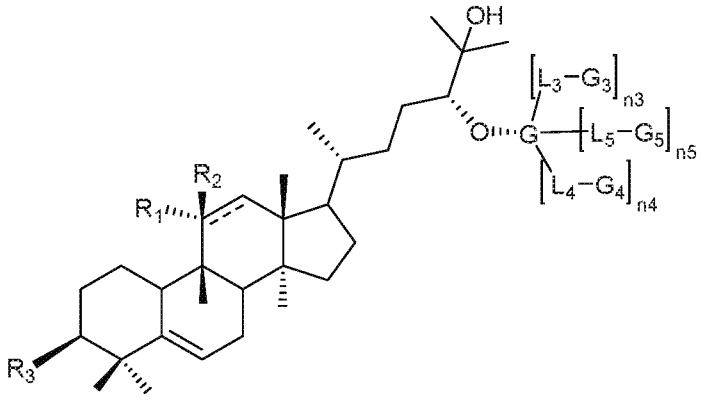
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, and



3. A composition, comprising one or more compounds having the structure of formula (I):

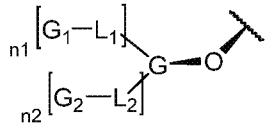


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and  ;

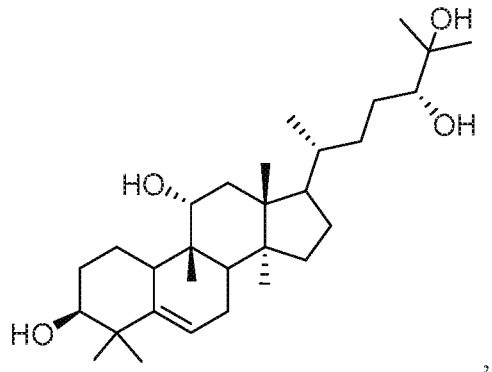
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

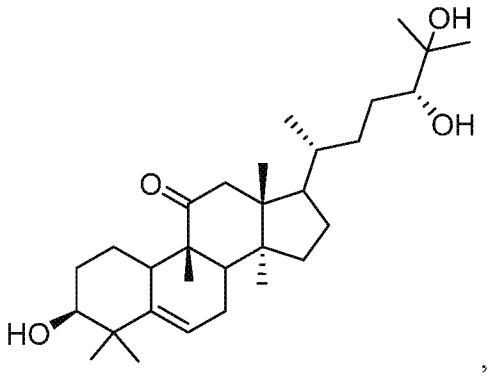
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

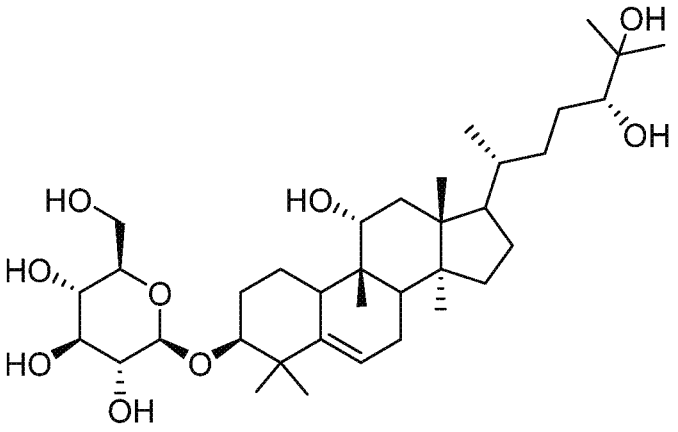
with the proviso that formula (I) is not selected from:



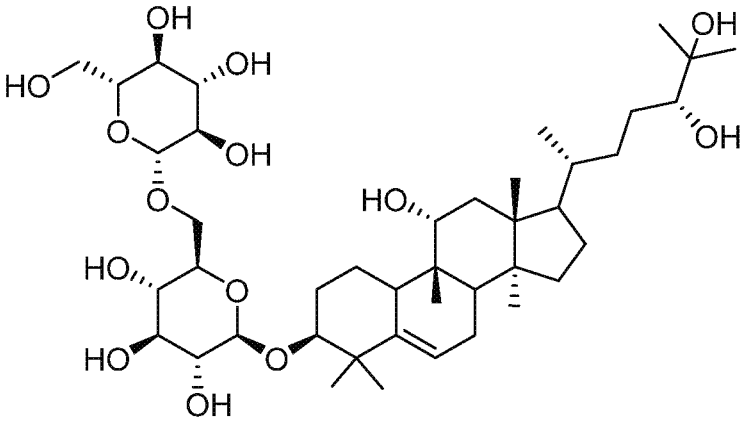
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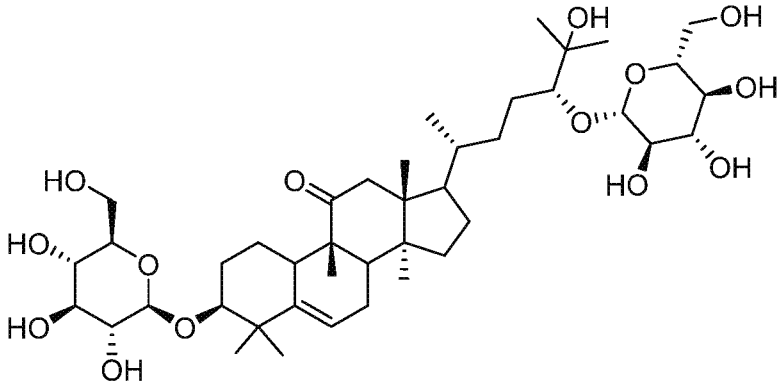
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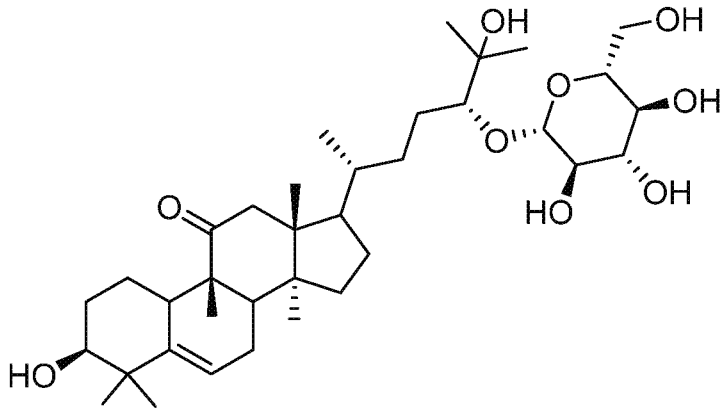
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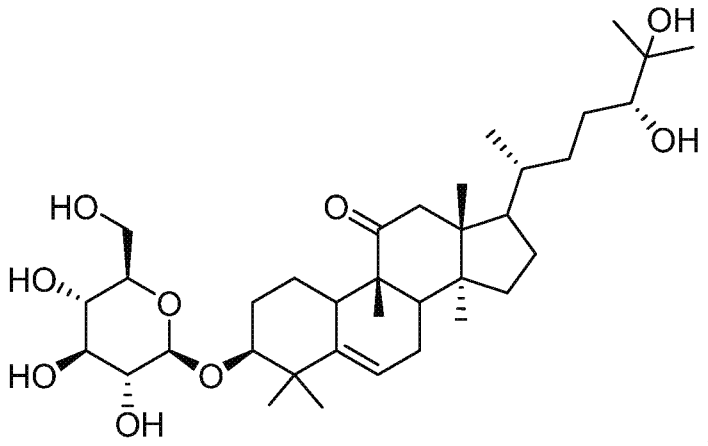
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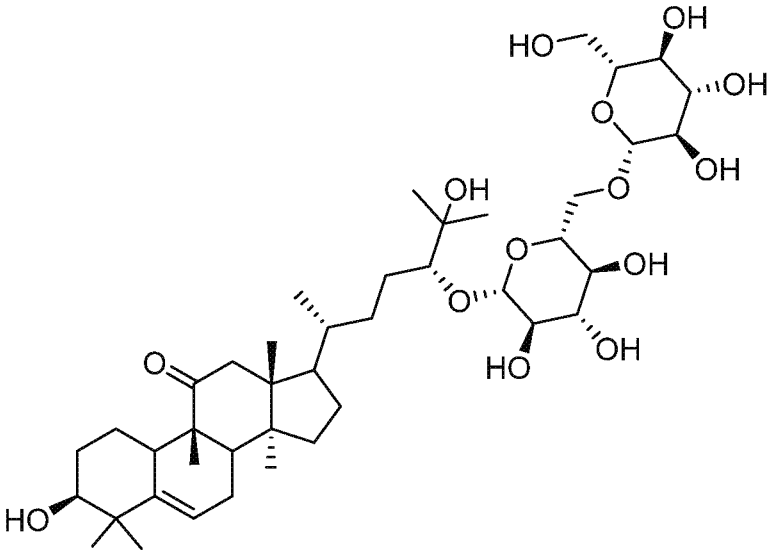
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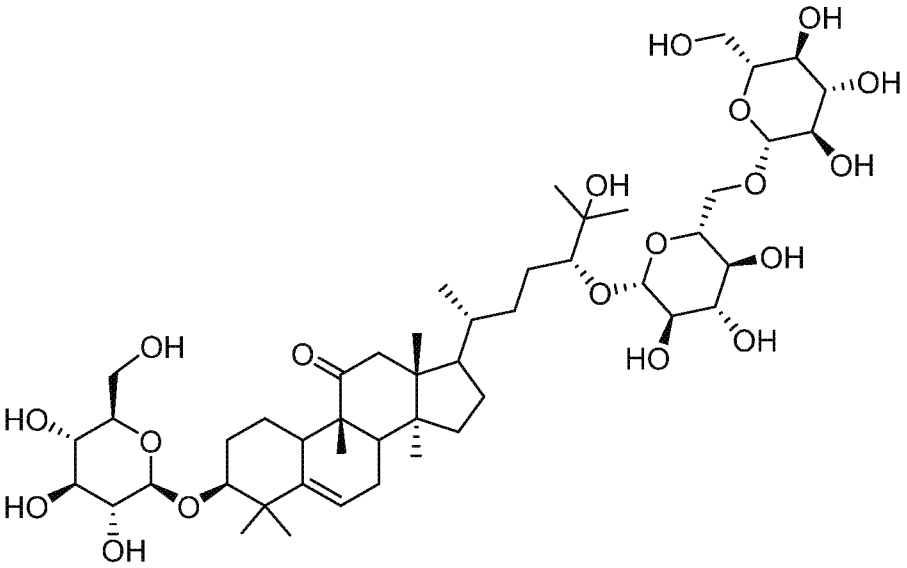
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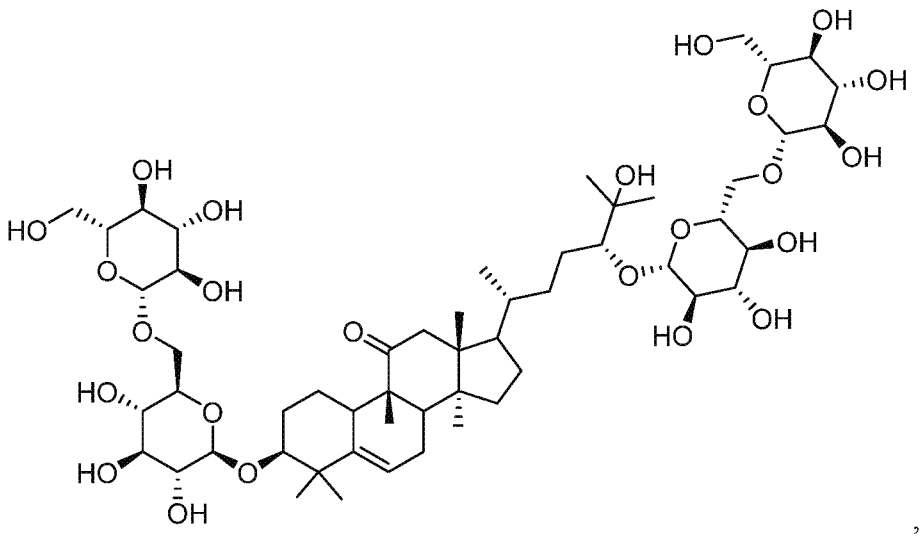
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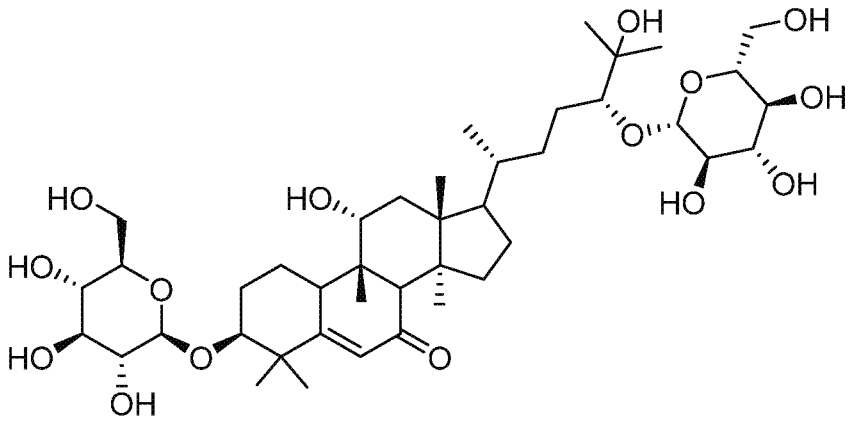
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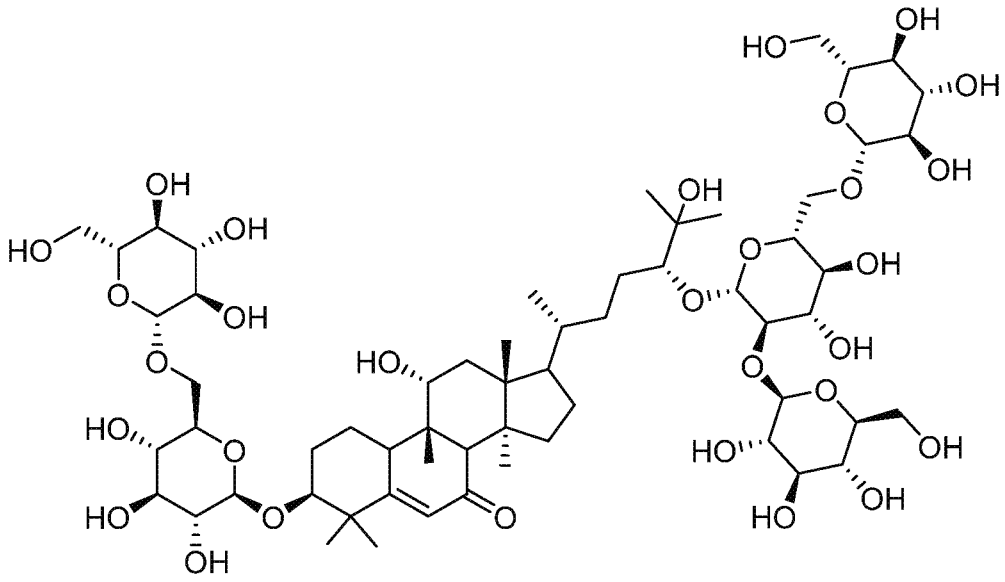
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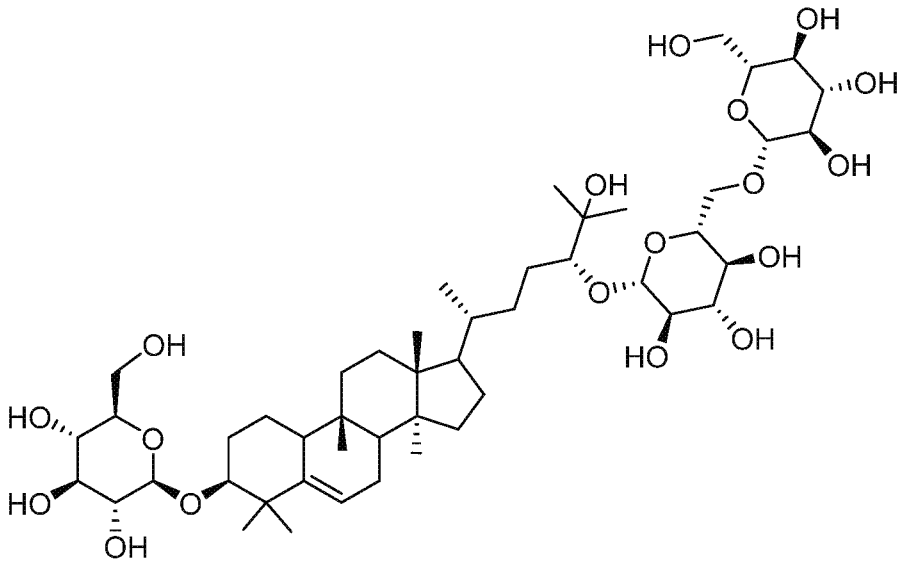
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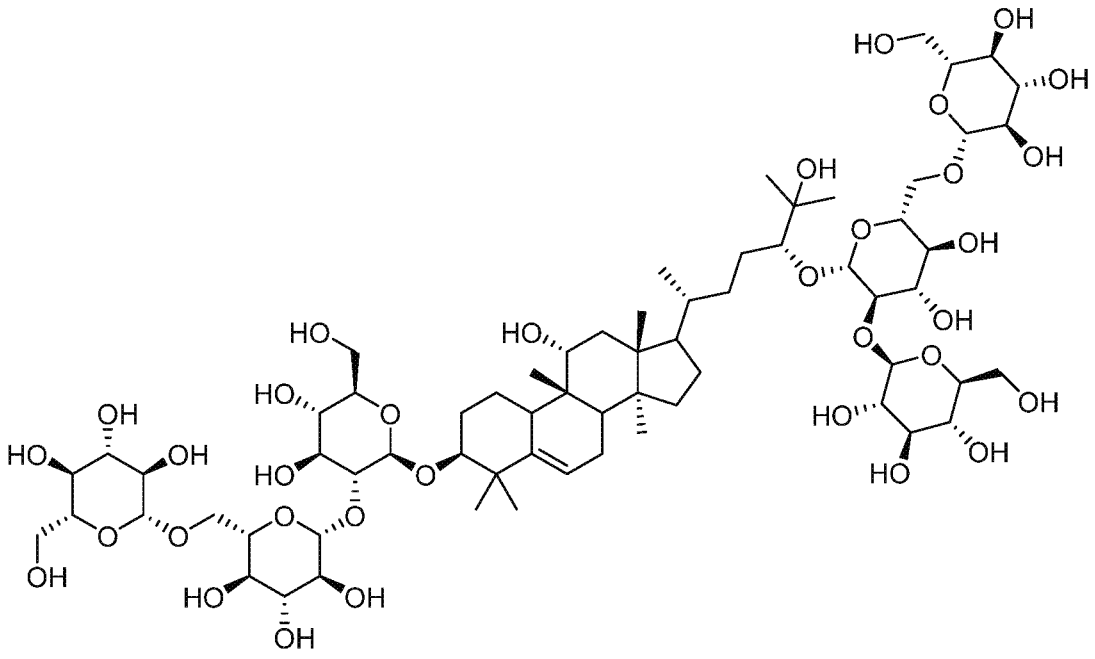
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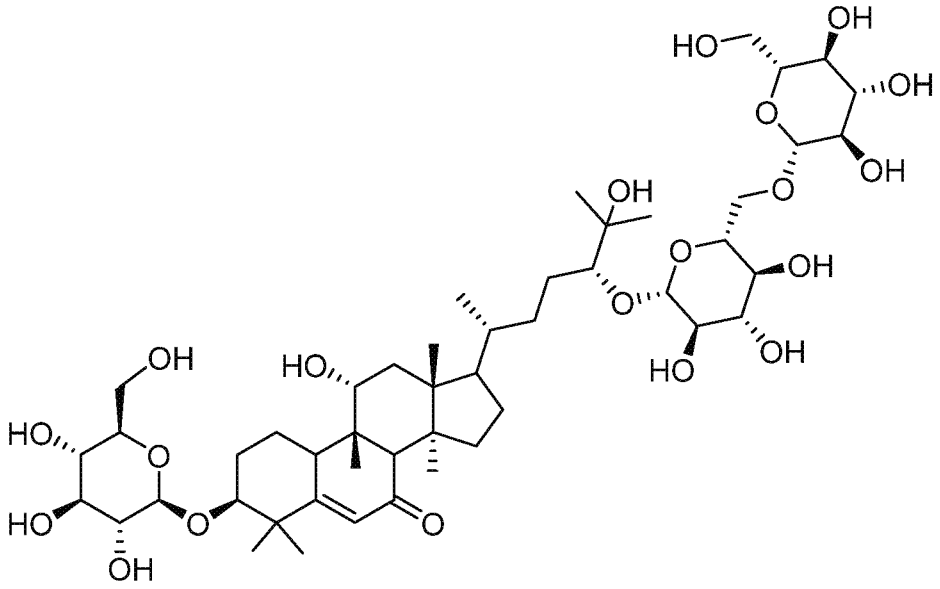
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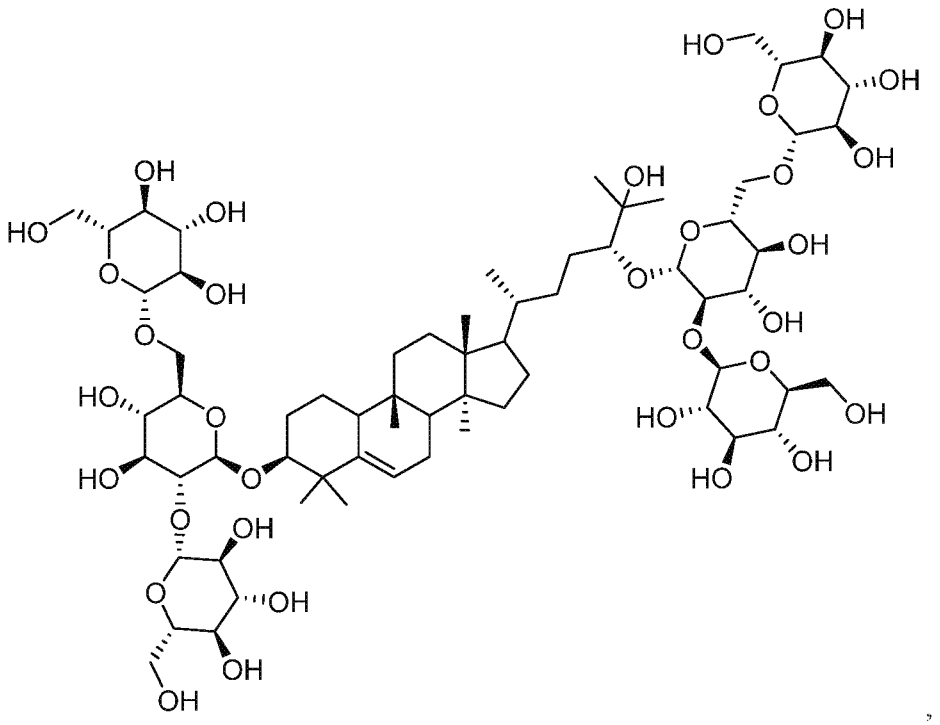


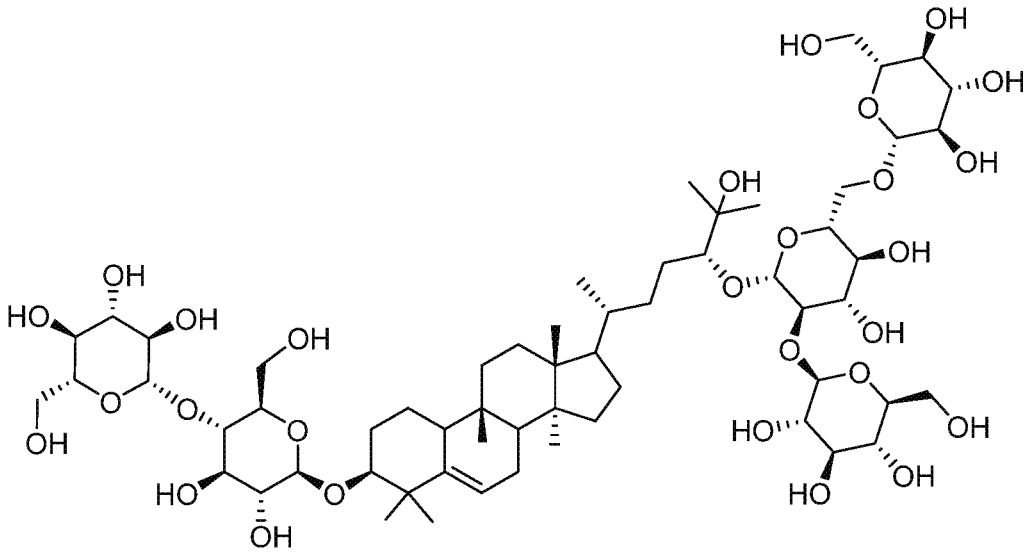
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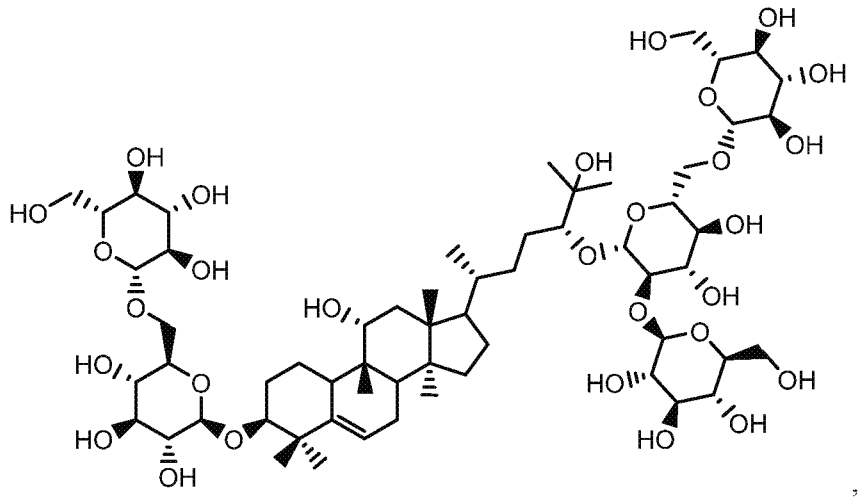


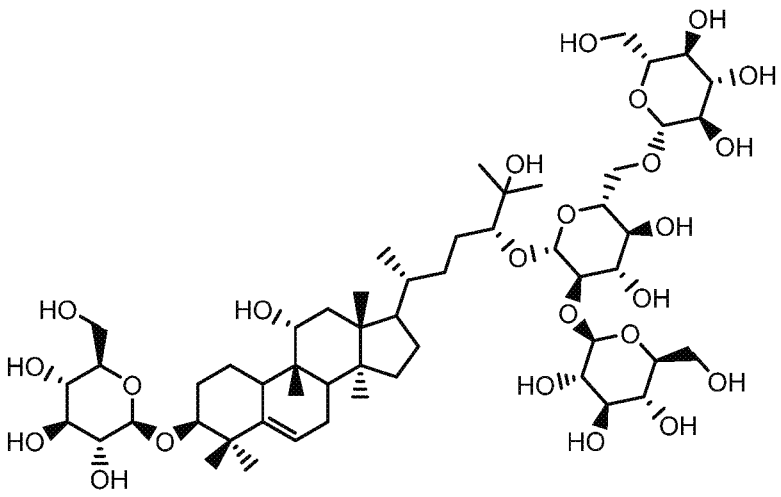
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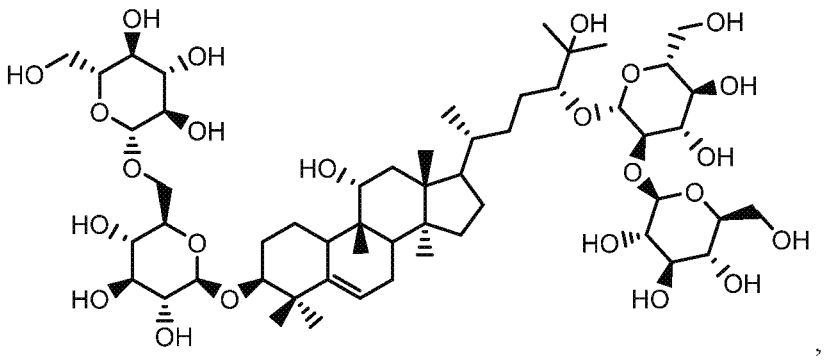




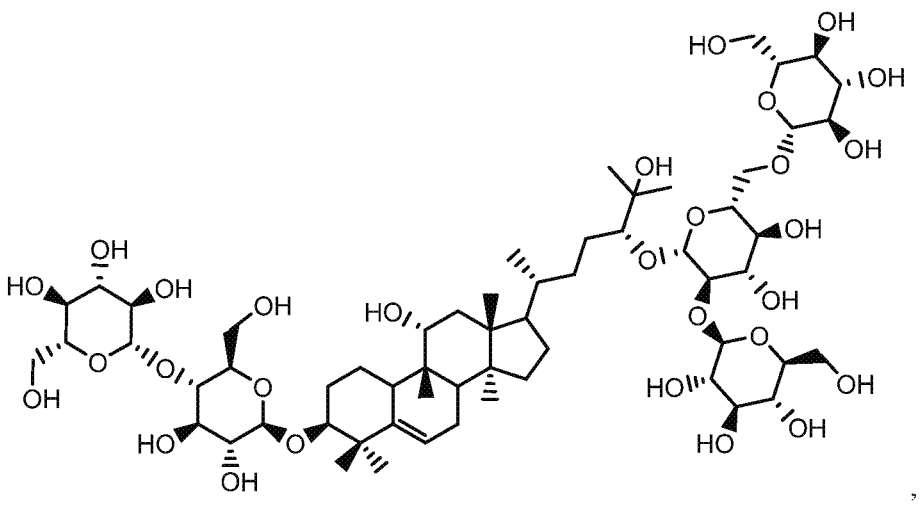




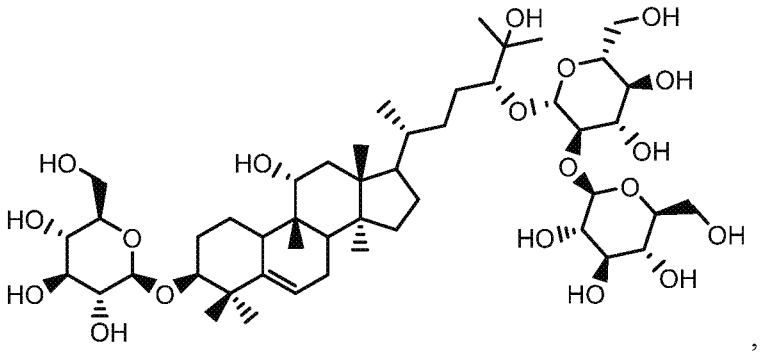




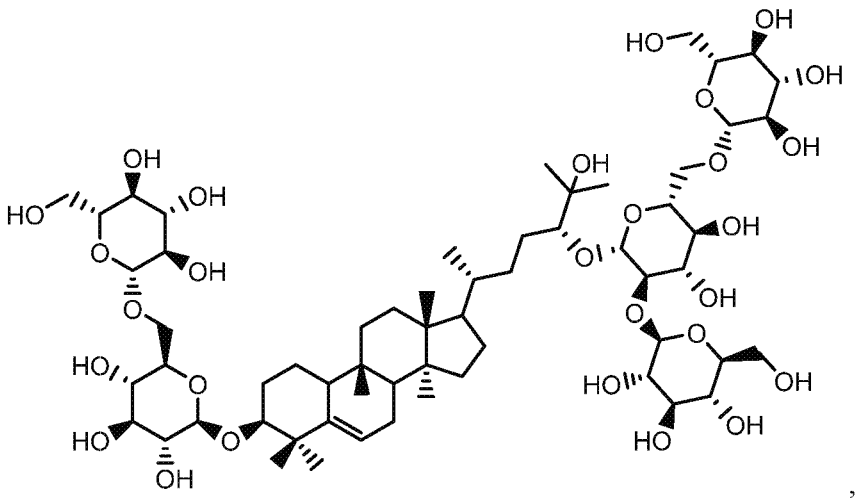
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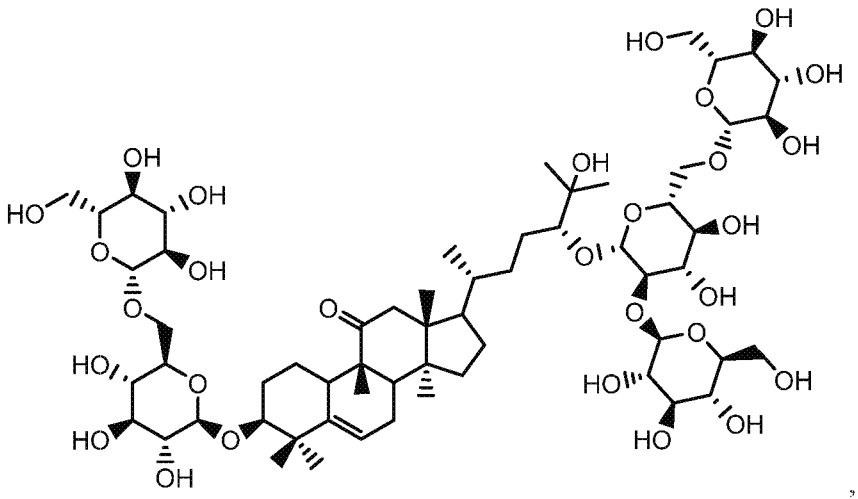
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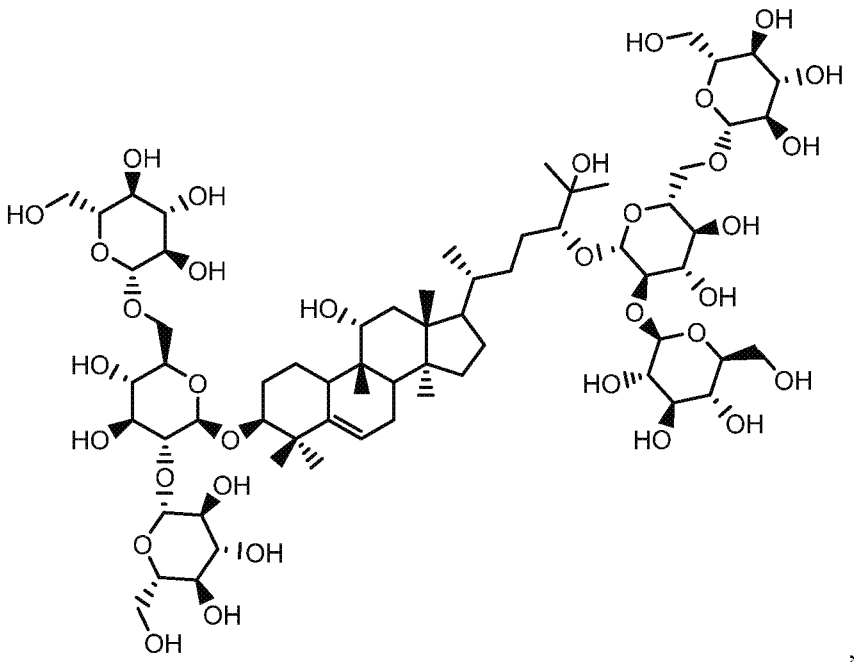
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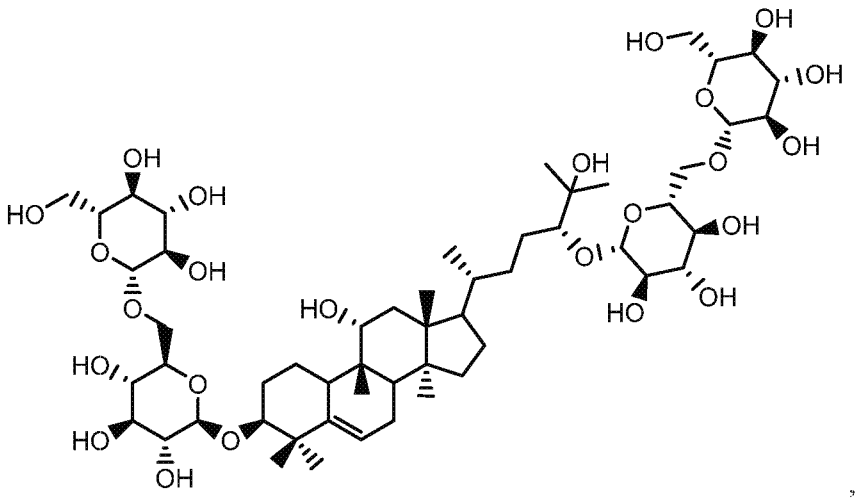


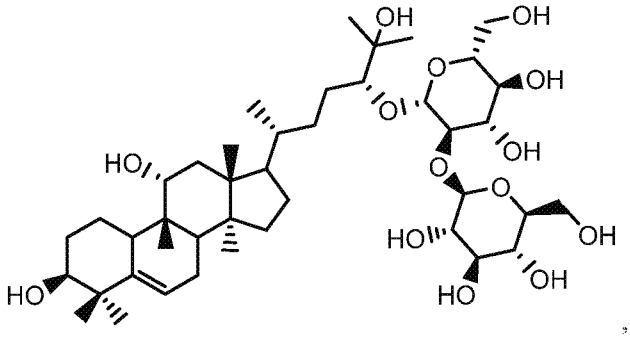
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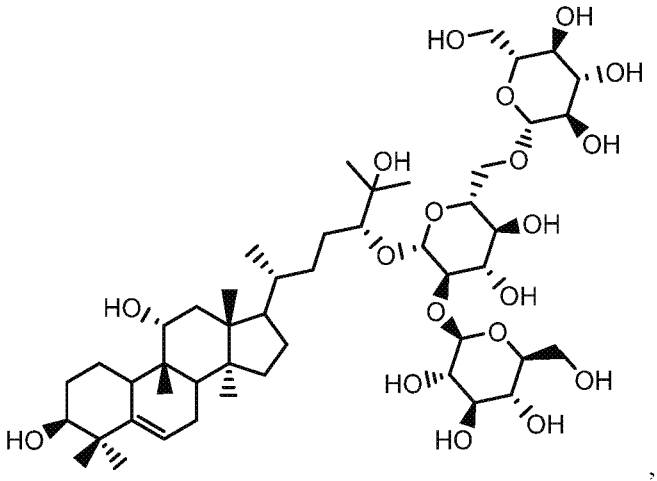


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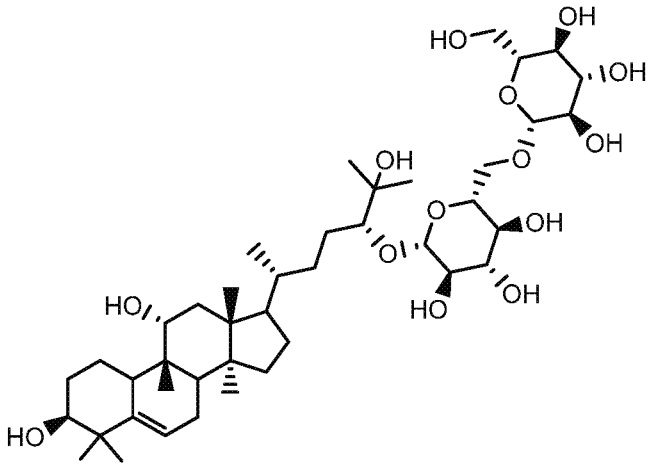




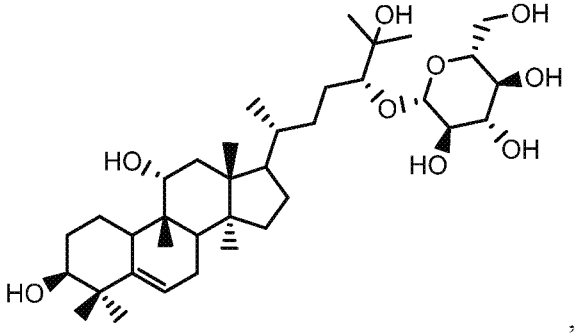




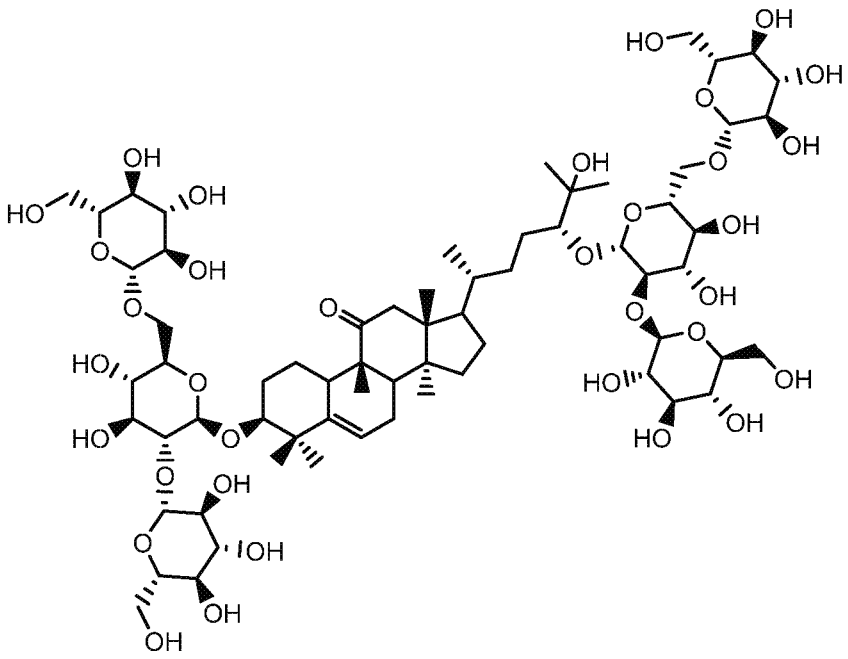
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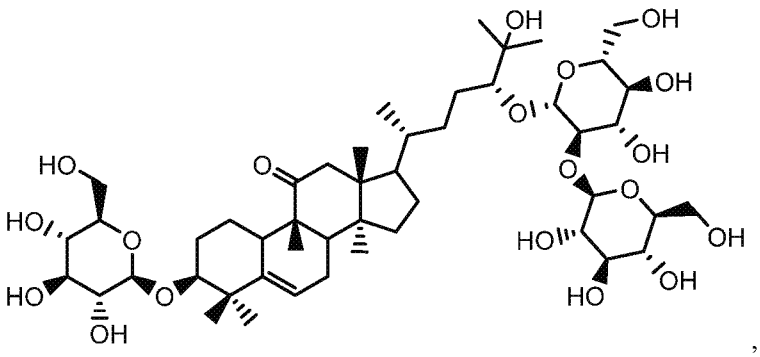
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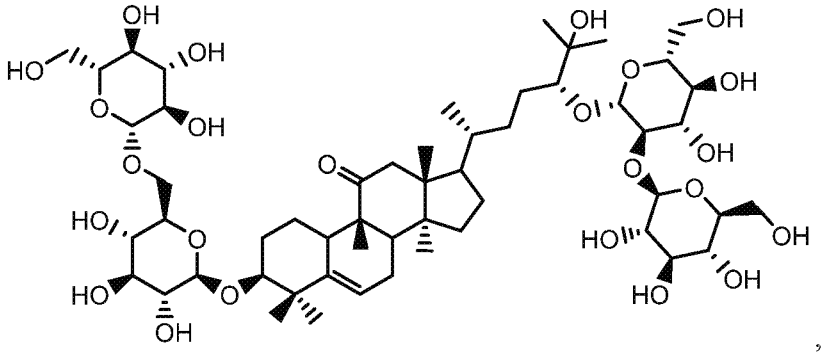
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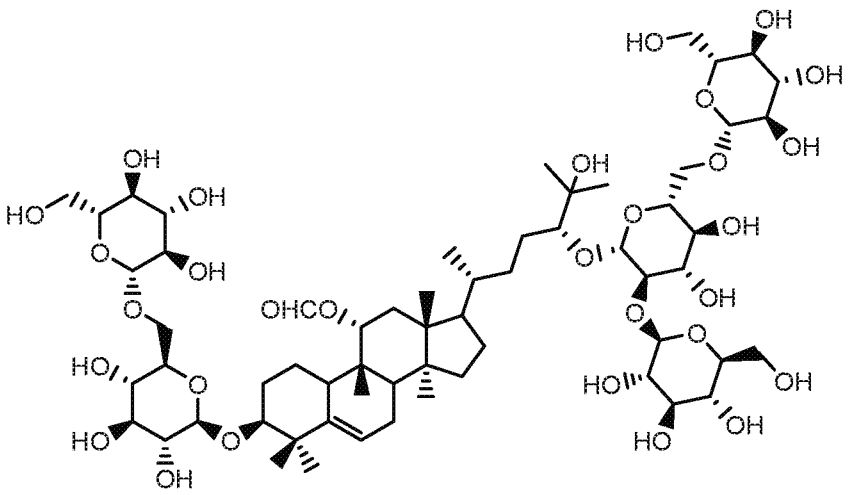
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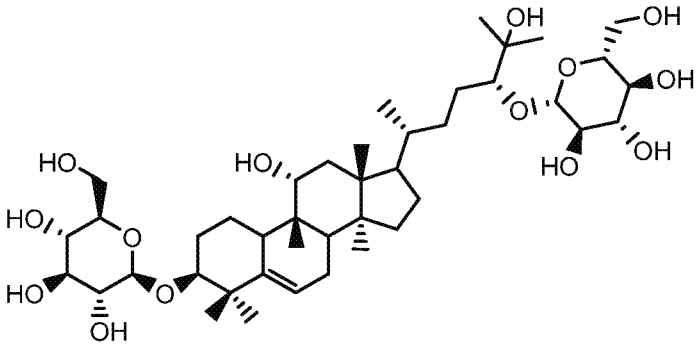
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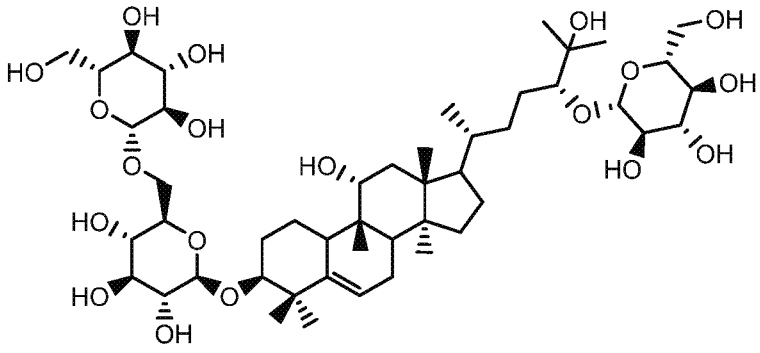
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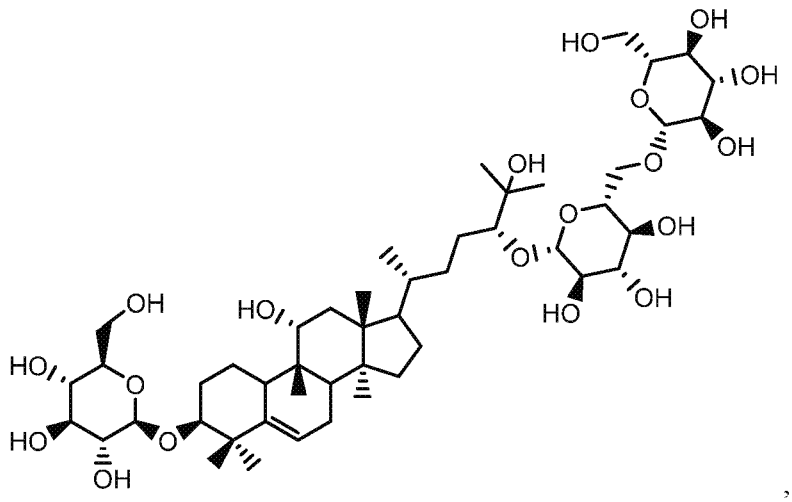
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, and



wherein the composition comprises greater than 50% by weight of the compound.

4. The composition of claim 3, comprising less than 1% by weight of Mogroside III_E.

5. The composition of claim 3, comprising less than 0.5% by weight of Mogroside III_E.

6. The composition of claim 3, comprising less than 0.1% by weight of Mogroside III_E.

7. The composition of any one of claims 3-6, comprising less than 0.3% by weight of 11-oxo-Mogroside III_E.

8. The composition of any one of claims 3-6, comprising less than 0.3% by weight of 11-oxo-Mogroside III_E.

9. The composition of any one of claims 3-6, comprising less than 0.1% by weight of 11-oxo-Mogroside III_E.

10. The composition of any one of claims 3-6, comprising less than 0.05% by weight of 11-oxo-Mogroside III_E.

11. The composition of any one of claims 3-6, comprising less than 0.01% by weight of 11-oxo-Mogroside III_E.

12. The composition of any claim 3, comprising less than 1% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III.

13. The composition of any claim 3, comprising less than 0.5% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III.

14. The composition of any claim 3, comprising less than 0.1% by weight of all isomers of Mogroside I, Mogroside II, and Mogroside III.

15. The composition of claim 14, comprising less than 0.1% by weight of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E.

16. The composition of any one of claims 3-15, comprising less than 1% by weight of 11-oxo-mogrol.

17. The composition of any one of claims 3-15, comprising less than 0.5% by weight of 11-oxo-mogrol.

18. The composition of any one of claims 3-15, comprising less than 0.1% by weight of 11-oxo-mogrol.

19. The composition of any one of claims 3-18, comprising one or more additional compounds selected from the group consisting of [known mogrosides in monk fruit + mogrol + 11-oxo-mogrol].

20. The composition of any one of claims 3-19, comprising greater than 70% by weight of the compound.

21. The composition of any one of claims 3-19, comprising greater than 80% by weight of the compound.

22. The composition of any one of claims 3-19, comprising greater than 90% by weight of the compound.

23. The composition of any one of claims 3-22, wherein the composition is in solid form.

24. The composition of claim 23, wherein the compound is in crystalline form.

25. The composition of claim 23, wherein the compound is in amorphous form.

26. The composition of claim 23, wherein the compound is coating a solid carrier.

27. The composition of claim 26, wherein the solid carrier are particles selected from the group consisting of lactose, cellulose, microcrystalline cellulose, modified food starch, gum Arabic, maltodextrin, modified corn starch, dextrose, xantham gum,

carboxymethylcellulose, cellulose gel, cellulose gum, sodium caseinate, carrageenan, and combinations thereof.

28. The composition of any one of claims 23-25, wherein the composition is in particulate form.

29. The composition of claim 28, wherein the composition has an average particle size between 50 μm and 300 μm.

30. The composition of claim 28, wherein the composition has an average particle size between 80 μm and 200 μm.

31. The composition of claim 28, wherein the composition has an average particle size between 80 μm and 150 μm.

32. A composition, comprising solid particles of the composition of any one of claims 3-22 and a liquid carrier.

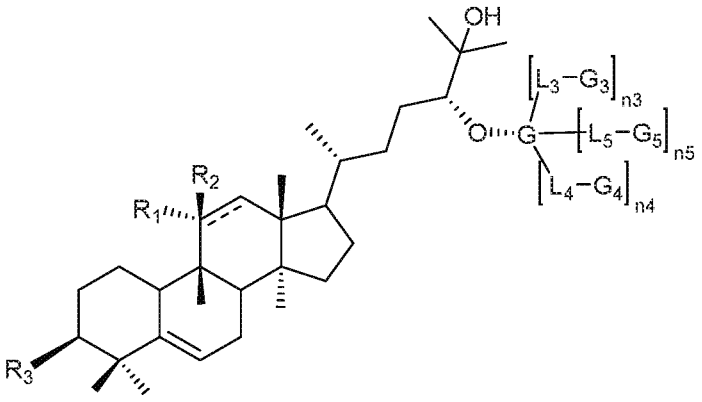
33. The composition of claim 32, wherein the solid particles are suspended in the liquid carrier.

34. The composition of claim 32 or 33, wherein the liquid carrier is selected from water, ethanol, propylene glycol, triacetine, medium chain triglycerides, glycerin, and combinations thereof.

35. The composition of claim 32 or 33, wherein the liquid carrier is water.

36. The composition of any one of claims 3 to 35, comprising one or more additional compounds selected from the group consisting of steviosides, rebaudiosides, glycyrrhizic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzein, curculin, mabinlin, pentadin, monatin, abrusosides, albiziasaponins, Baiyunoside, bryoside, cussoracosides, cyclocarioside, mukuroziosides, osladin, periandrin, phlomisoside, Polypodosides, pterocaryosides, rubusosides, telosmosides, selligueain A, hernandulcin, phlorizin, trilobatin, phylodulcin, dulcoside A, gaudichaudioside A, and combinations thereof.

37. A composition, comprising a solution of one or more compounds having the structure of formula (I):

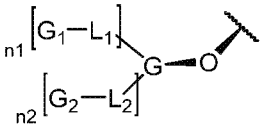


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and  ;

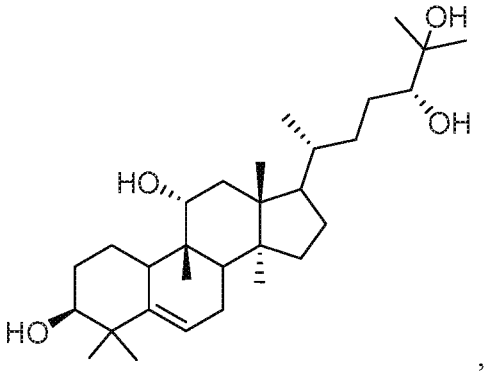
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

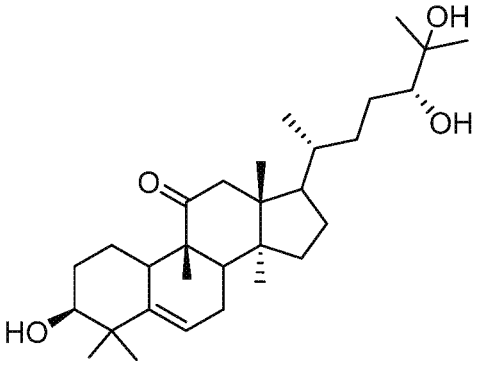
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

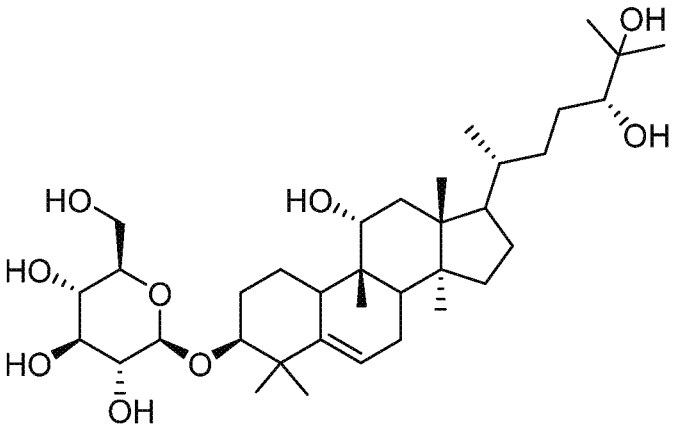
with the proviso that formula (I) is not selected from:


OH
OH
HO
HO

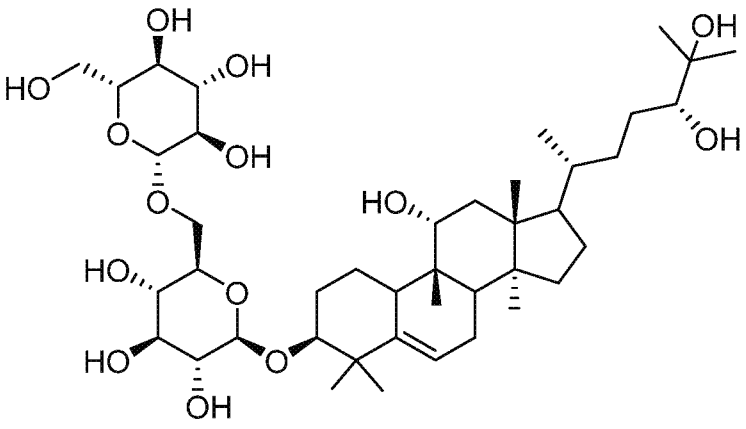
,


OH
OH
O
HO

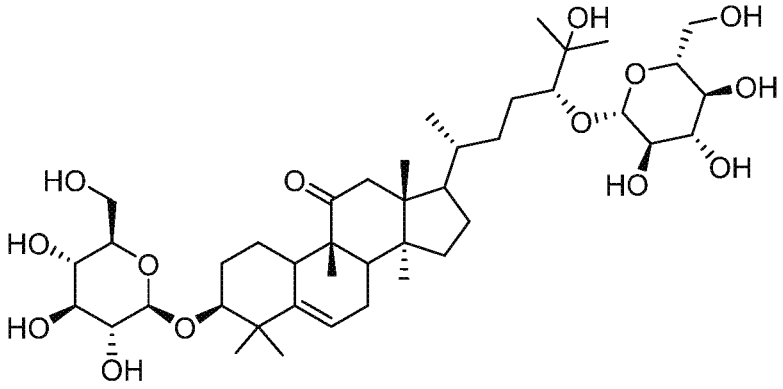
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OH
OH
HO
HO
HO
O
HO
O
OH

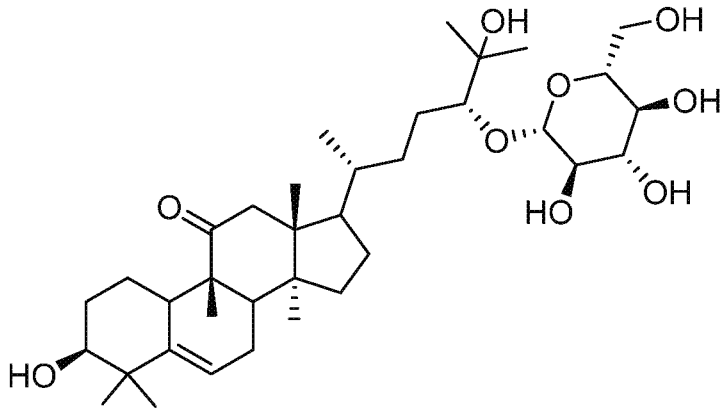
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OH
HO
OH
O
OH
O
OH
HO
HO
O
HO
O
OH

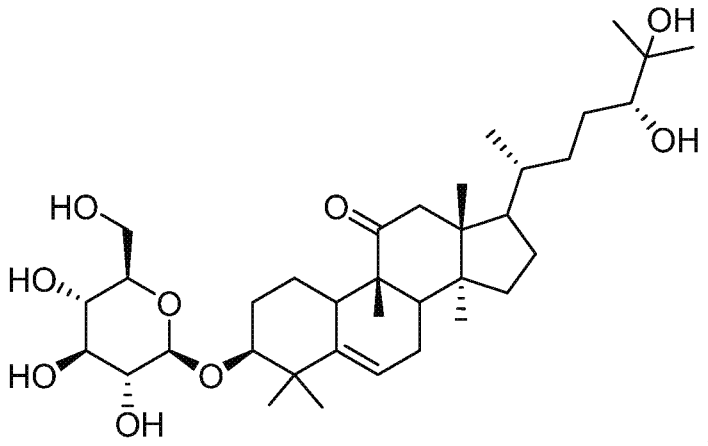
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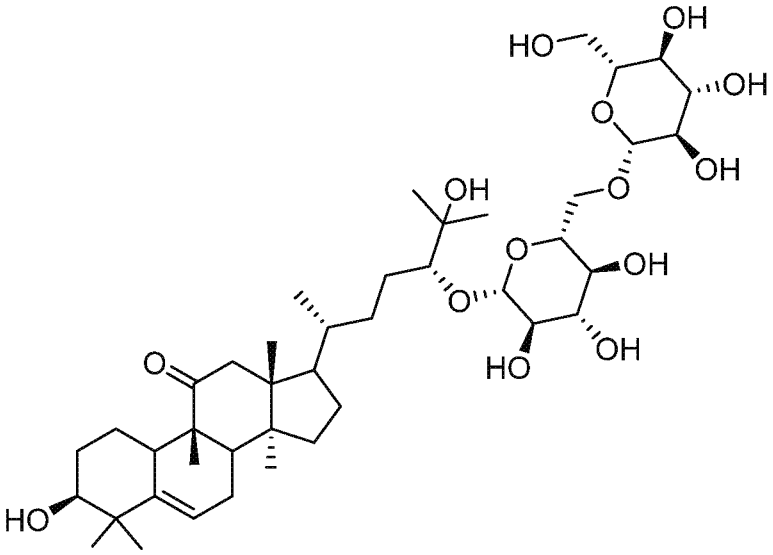
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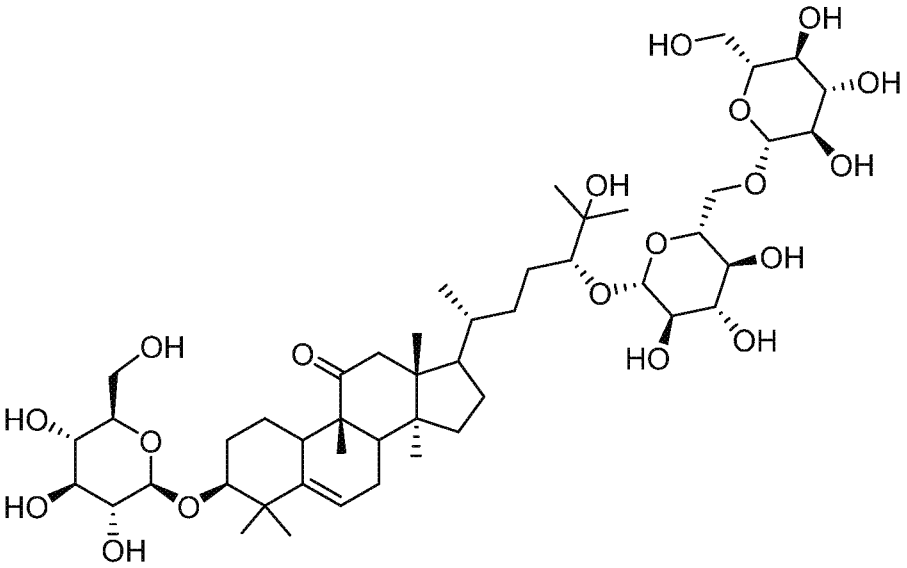
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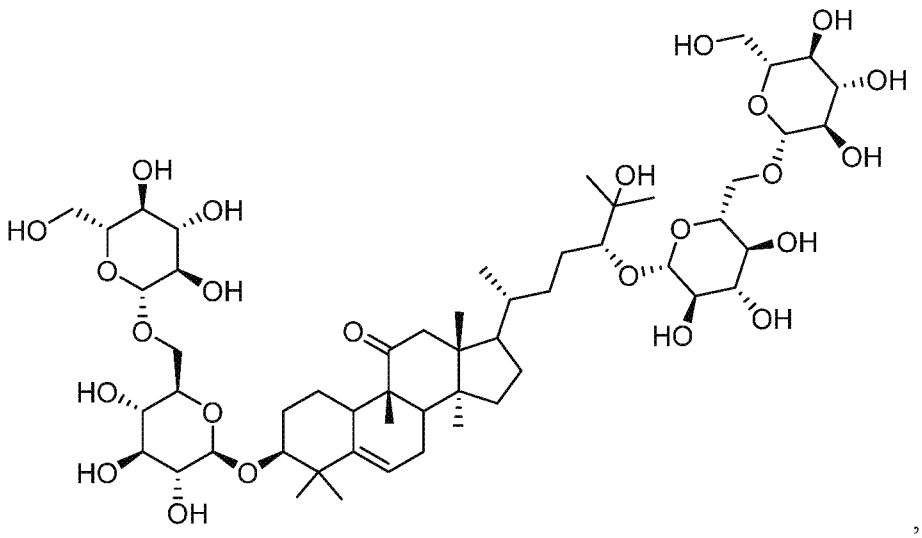
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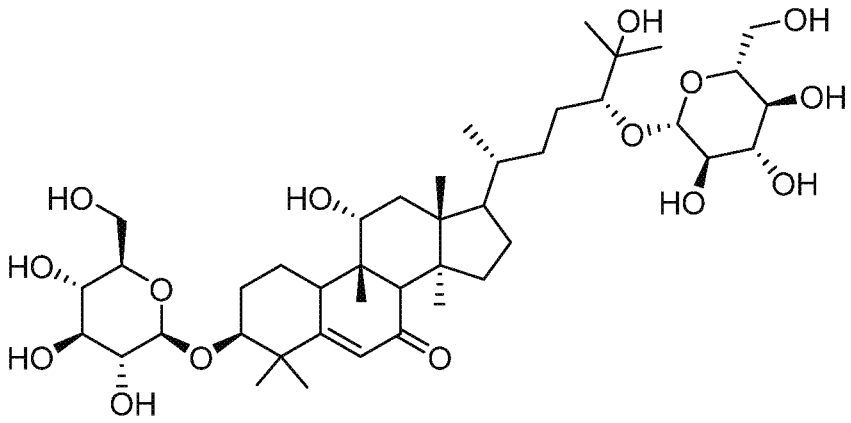
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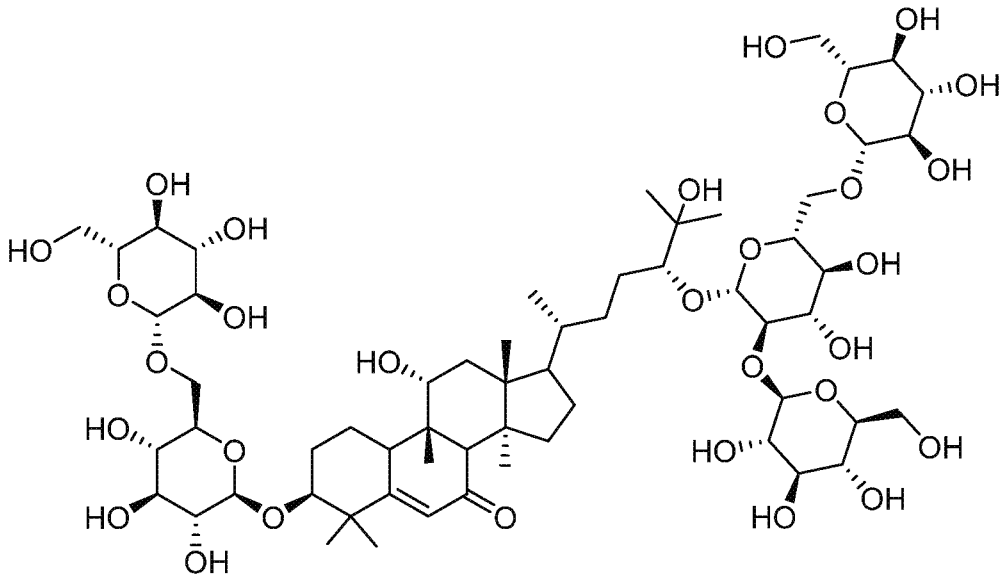
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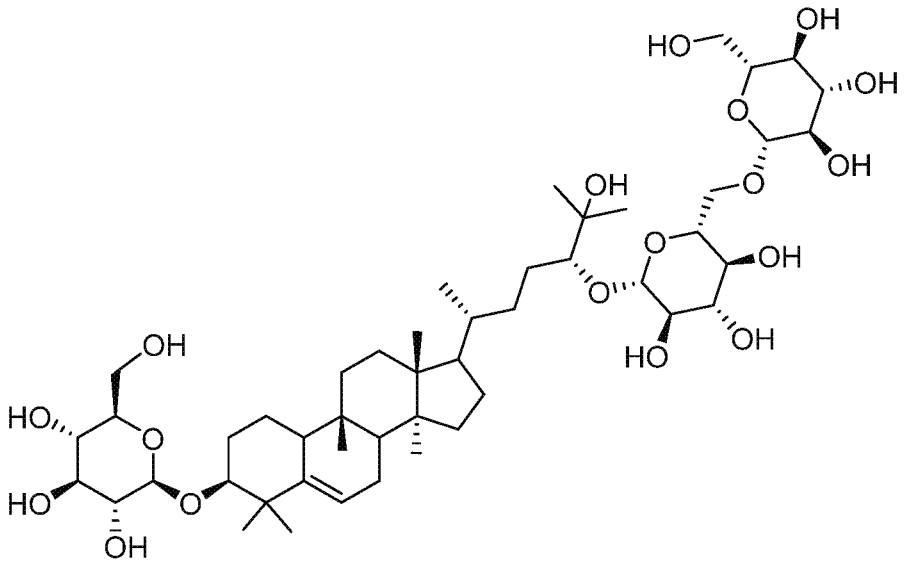
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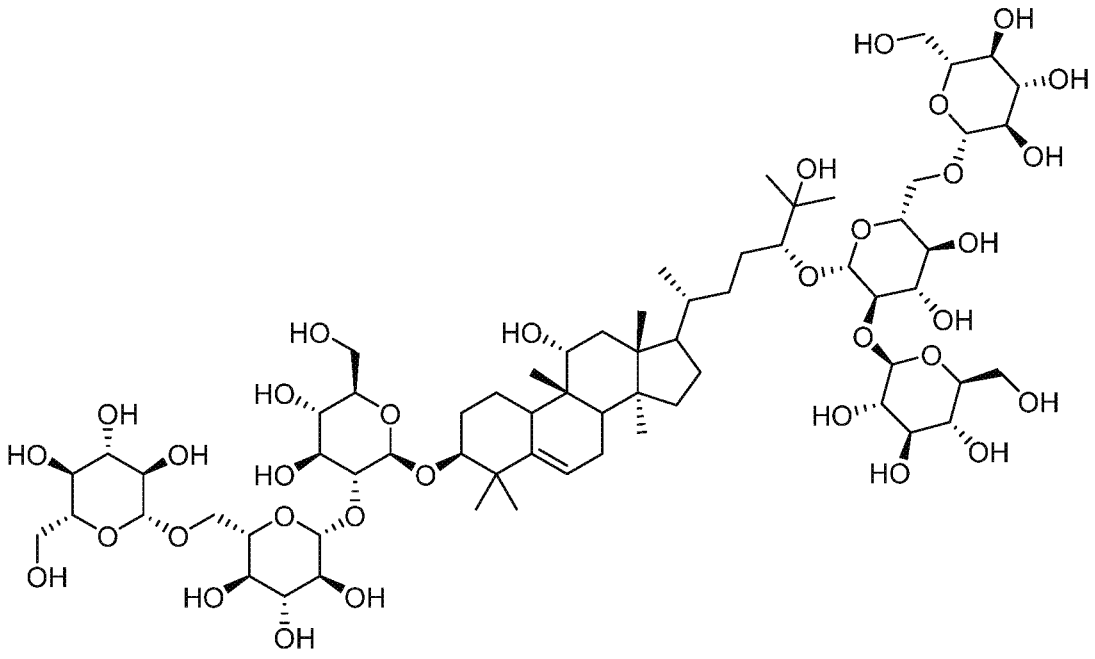
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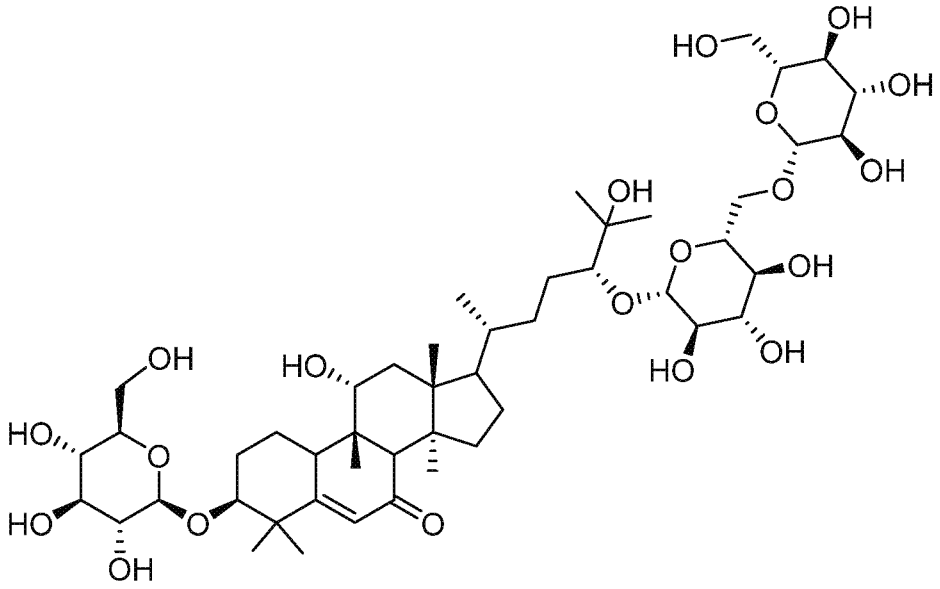
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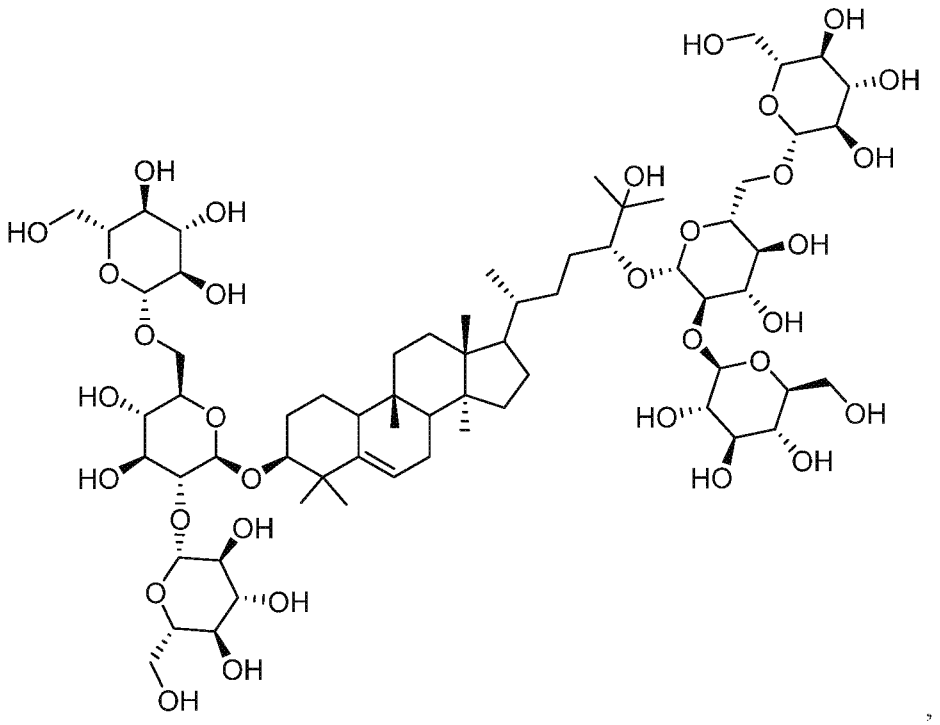


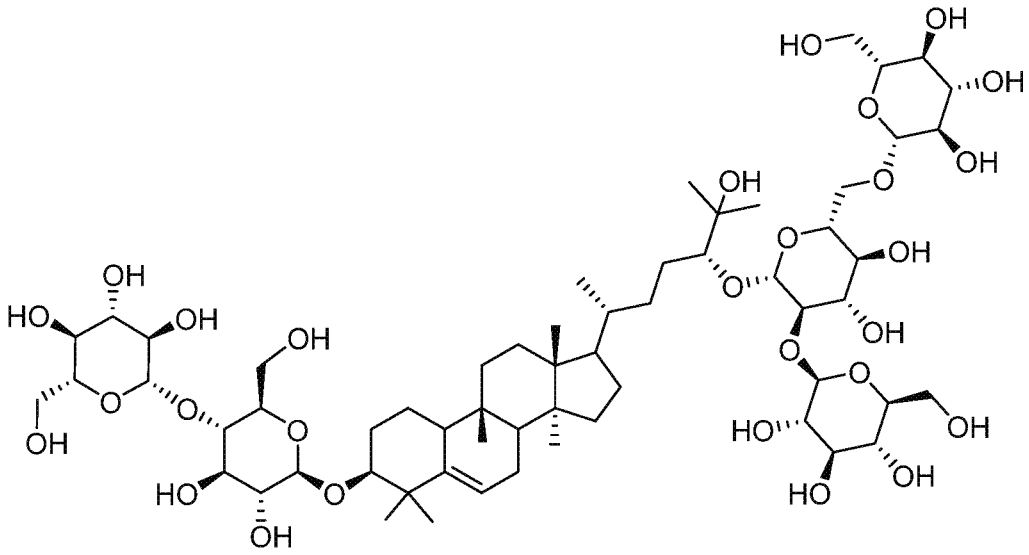
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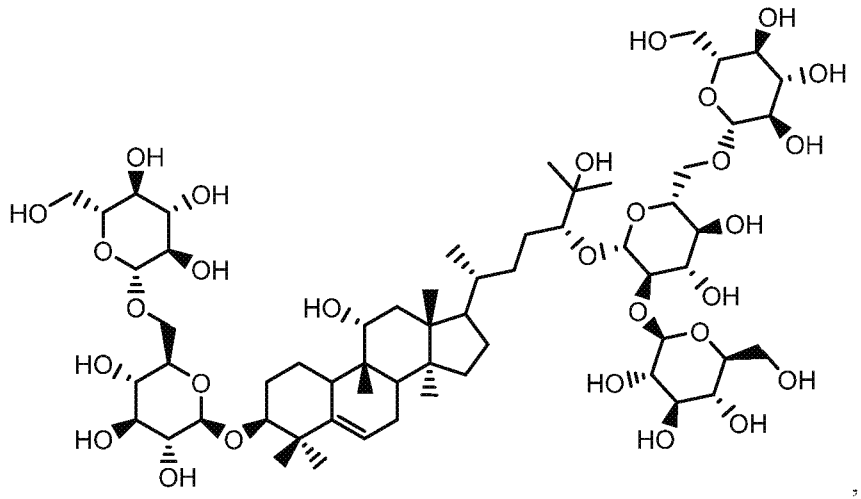


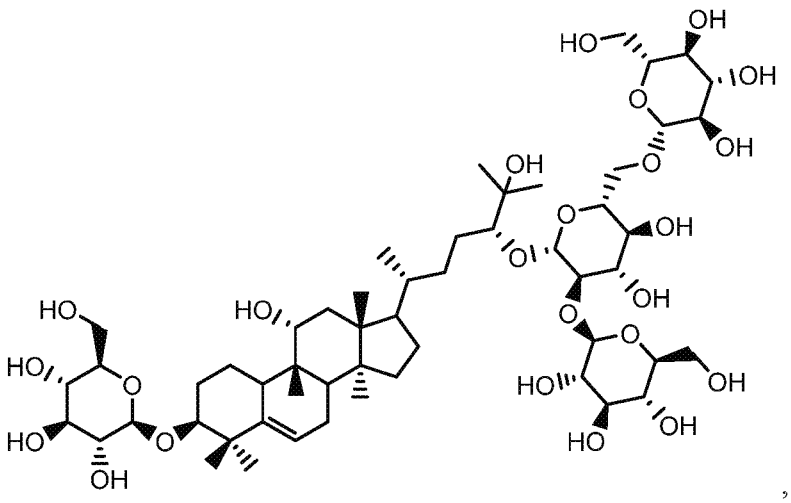
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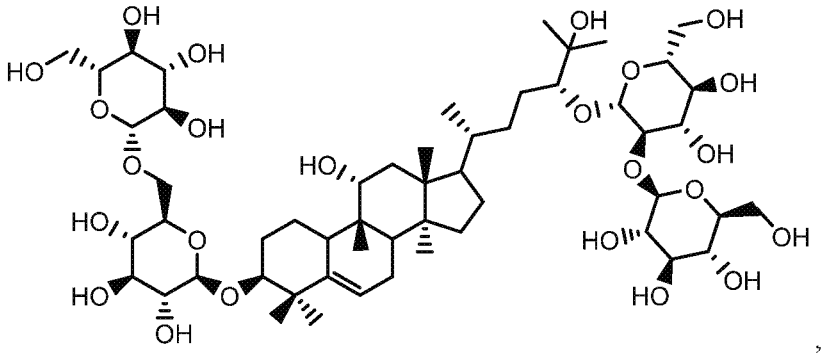




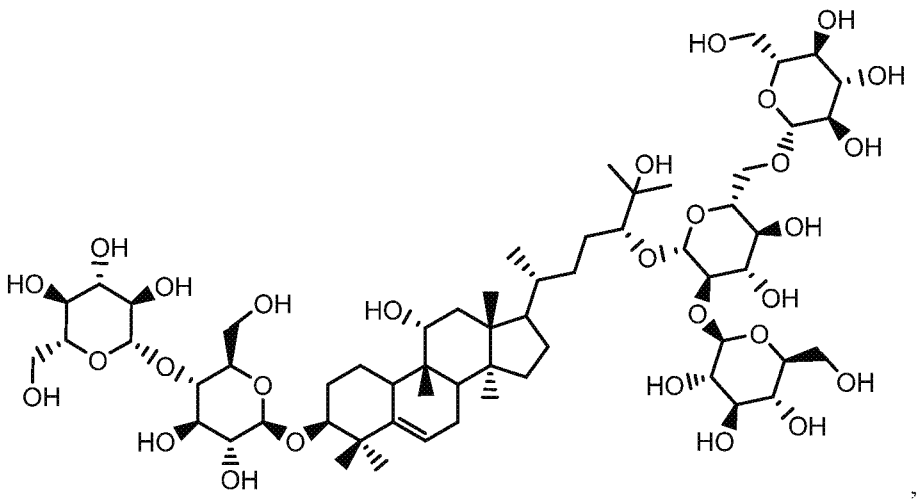




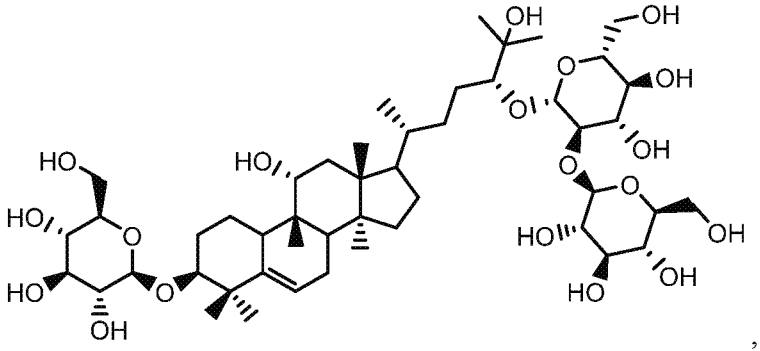




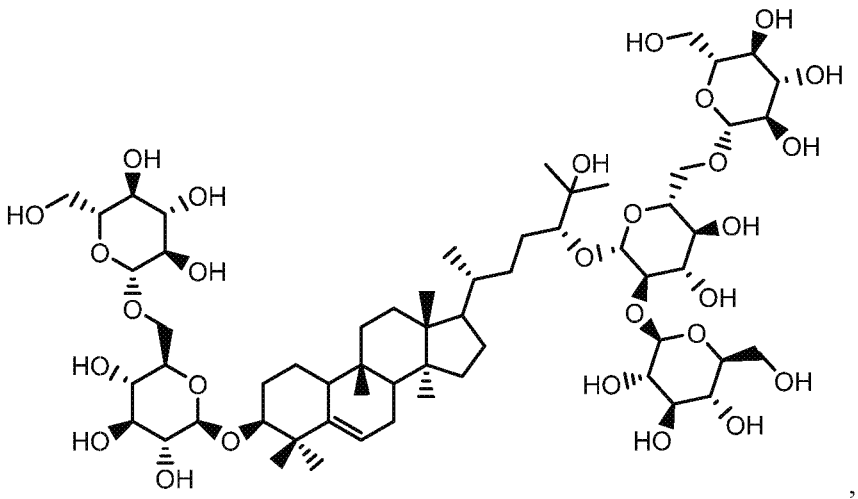
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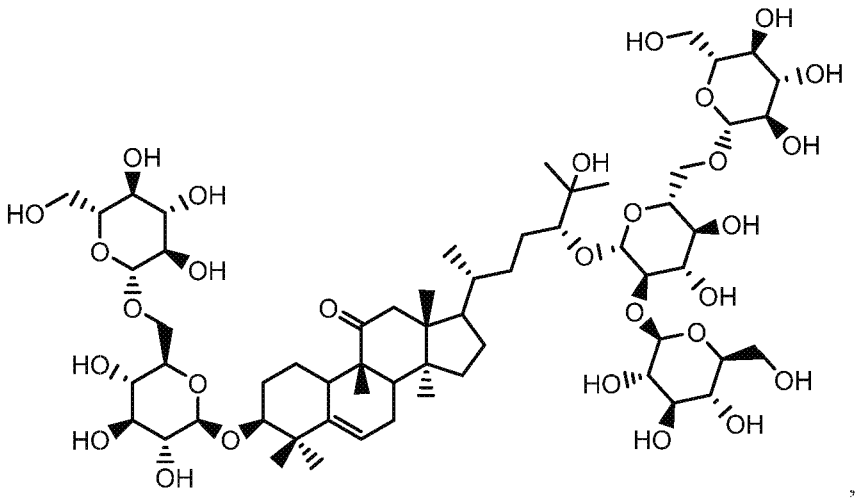
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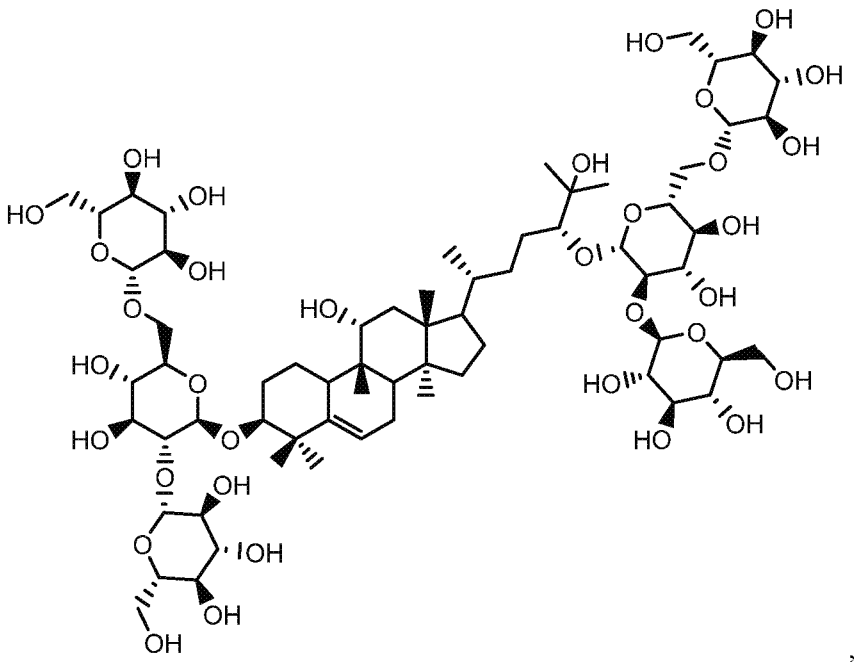
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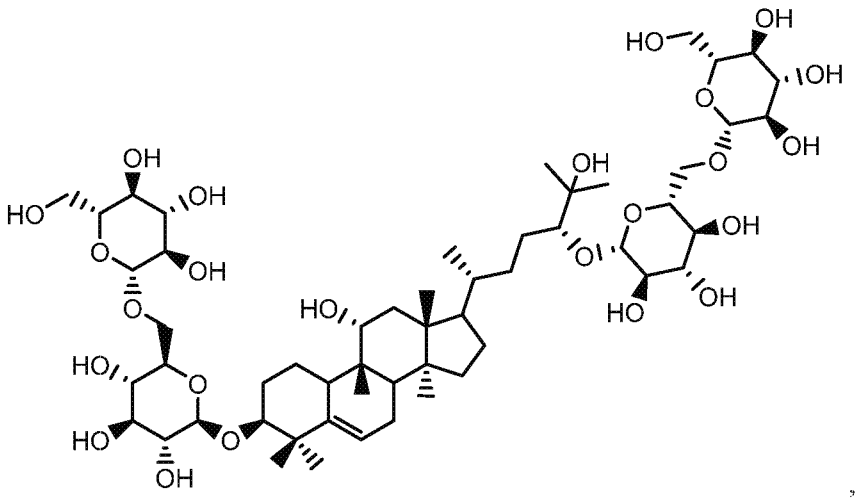


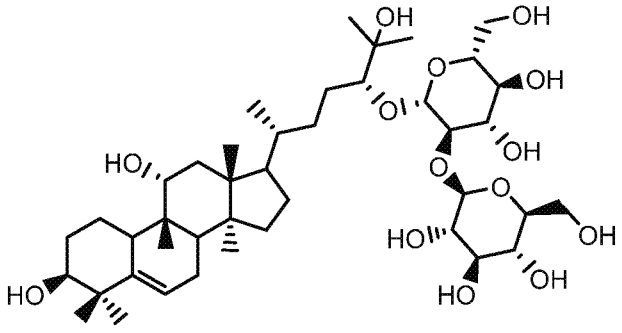
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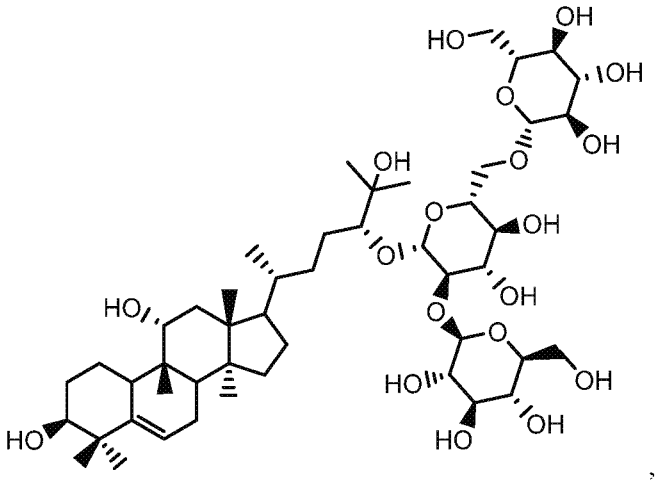


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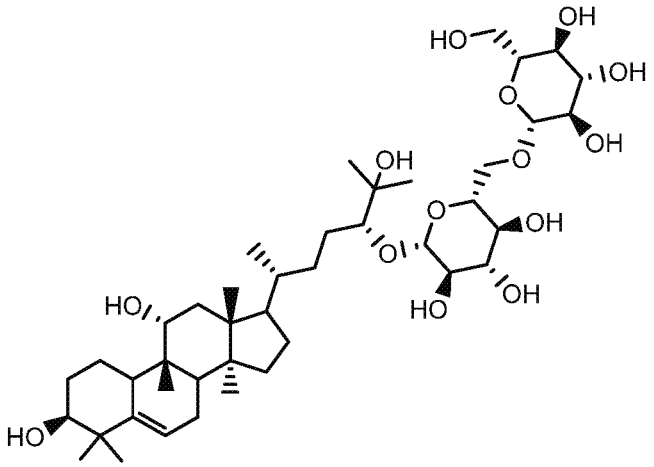




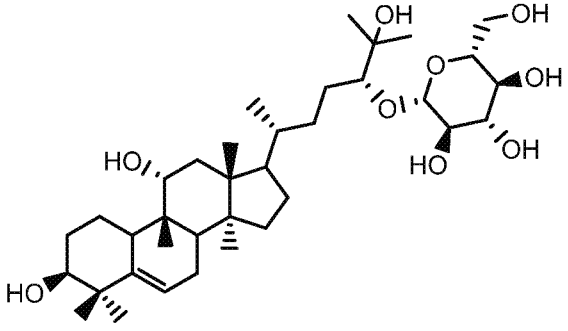




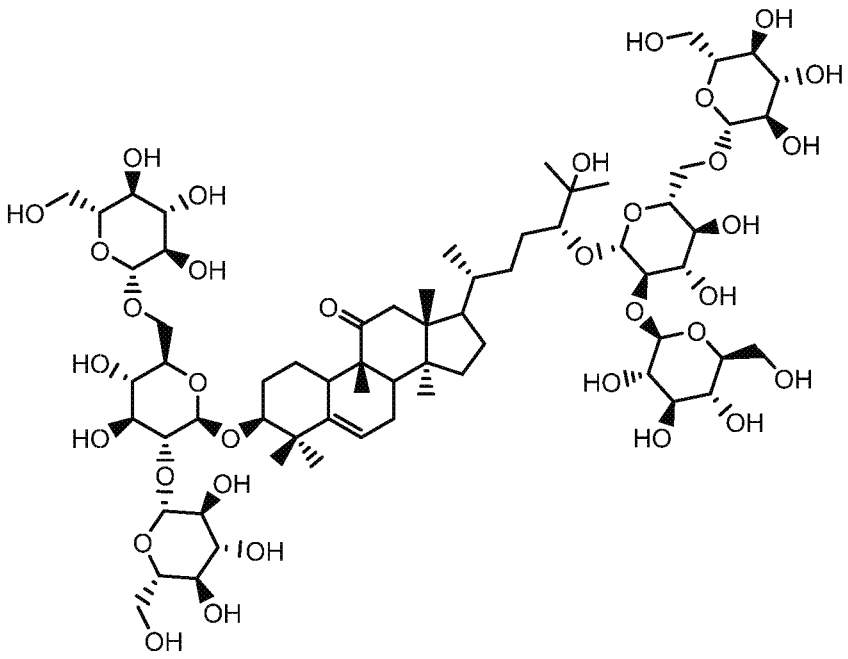
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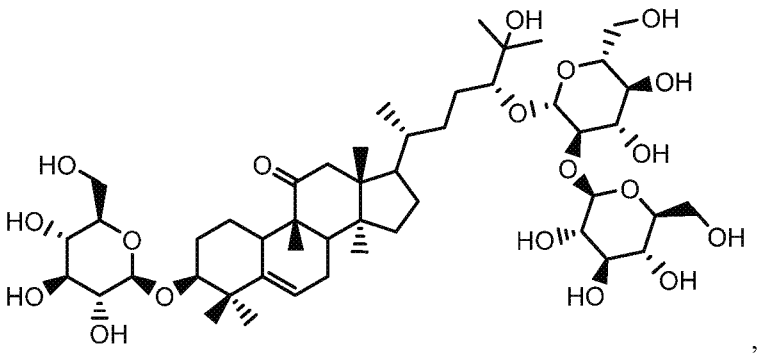
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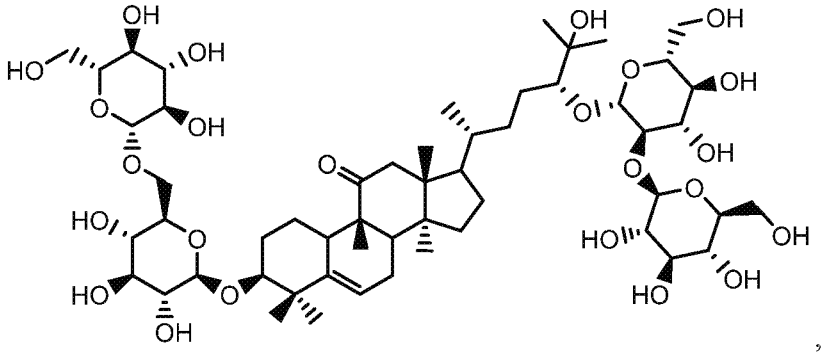
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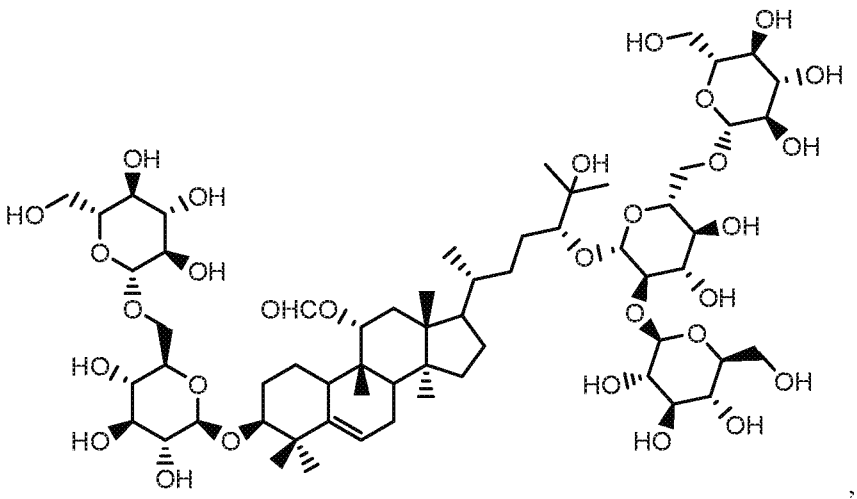
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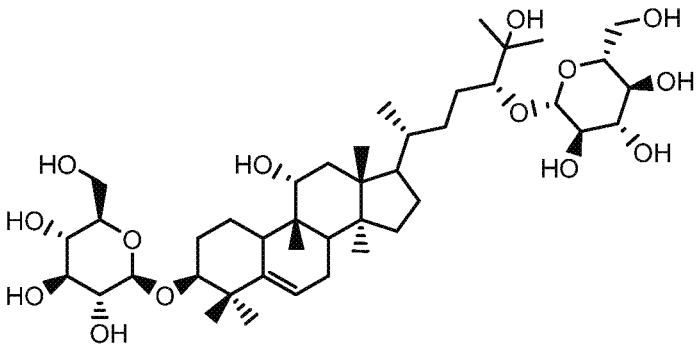
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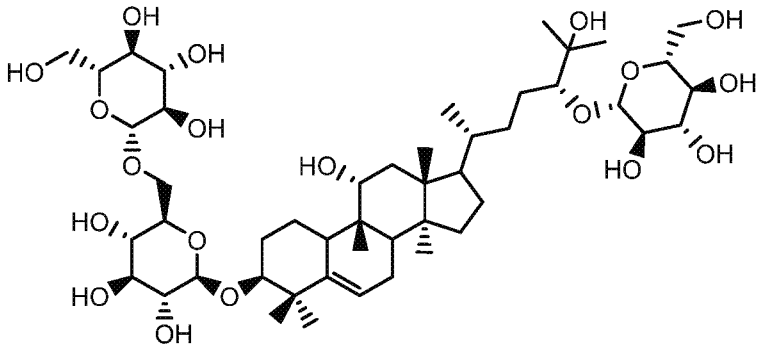
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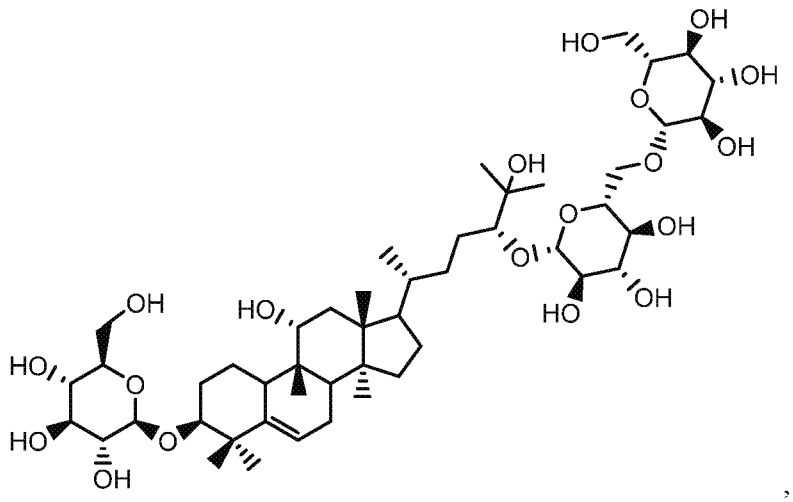
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,



, and



wherein the concentration of the compound in the solution is greater than 300 ppm.

38. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 500 ppm.

39. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 0.1%.

40. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 0.5%.

41. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 1%.

42. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 5%.

43. The composition of claim 37, wherein the concentration of the compound in the solution is greater than 10%.

44. The composition of any one of claims 37-43, wherein the solution is aqueous.

45. The composition of any one of claims 37-43, wherein the solution is an alcohol solution.

46. The composition of claim 45, wherein the alcohol is ethanol.

47. The composition of any one of claims 37-46, comprising a concentration of Mogroside III_E that is less than 100 ppm.

48. The composition of any one of claims 37-46, comprising a concentration of Mogroside III_E that is less than 50 ppm.

49. The composition of any one of claims 37-46, comprising a concentration of Mogroside III_E that is less than 20 ppm.

50. The composition of any one of claims 37-46, comprising a concentration of Mogroside III_E that is less than 5 ppm.

51. The composition of any one of claims 37-50, comprising a concentration of 11-oxo-Mogroside III_E of less than 30 ppm.

52. The composition of any one of claims 37-50, comprising a concentration of 11-oxo-Mogroside III_E of less than 10 ppm.

53. The composition of any one of claims 37-50, comprising a concentration of 11-oxo-Mogroside III_E of less than 1 ppm.

54. The composition of any one of claims 37-50, comprising a concentration of 11-oxo-Mogroside III_E of less than 0.1 ppm.

55. The composition of any one of claims 37-46, comprising a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 1%.

56. The composition of any one of claims 37-46, comprising a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 0.5%.

57. The composition of any one of claims 37-46, comprising a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 0.1%.

58. The composition of any one of claims 37-46, comprising a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 500 ppm.

59. The composition of any one of claims 37-46, comprising a combined concentration of all isomers of Mogroside I, Mogroside II, and Mogroside III of less than 100 ppm.

60. The composition of any one of claims 37-46, comprising a combined concentration of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E of less than 500 ppm.

61. The composition of any one of claims 37-46, comprising a combined concentration of Mogroside III_E, 11-oxo-Mogroside III_E, Mogroside III_{A2}, Mogroside I_E, and Mogroside II_E of less than 100 ppm.

62. The composition of any one of claims 37-61, comprising a concentration of 11-oxo-mogrol of less than 0.5%.

63. The composition of any one of claims 37-61, comprising a concentration of 11-oxo-mogrol of less than 100 ppm.

64. The composition of any one of claims 37-63, comprising one or more additional compounds selected from the group consisting of steviosides, rebaudiosides, glycyrrhizic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzein, curculin, mabinlin, pentadin, monatin, abrusosides, albiziasaponins, Baiyunoside, bryoside, cussoracosides, cyclocarioside, mukurozioside, osladin, periandrin, phlomisoside, Polypodosides, pterocaryosides, rubusosides, telosmosides, selligueain A, hernandulcin, phlorizin, trilobatin, phylodulcin, dulcoside A, gaudichaudioside A, and combinations thereof.

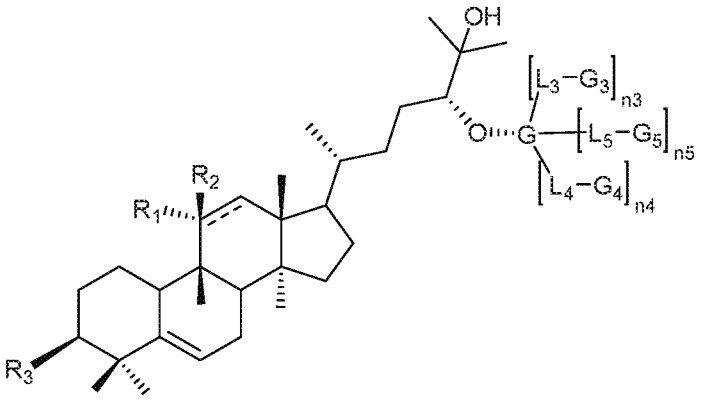
65. The composition of any one of claims 37-64, comprising one or more additional compounds selected from the group consisting of Mogroside V, Siamenoside I, Mogroside IV_E, Iso-mogroside V, Mogroside III_E, 11-Deoxy-mogroside V, 11-Oxo-mogroside V, Mogroside VI, Mogroside IV_A, Mogroside II_A, Mogroside II_{A1}, Mogroside II_{A2}, Mogroside I_A, 11-oxo-Mogroside VI, 11-oxo-Mogroside III_E, 11-oxo-Mogroside IV_E, Mogroside I_E, Mogrol, 11-oxo-mogrol, Mogroside II_E, Mogroside III_{A2}, and Mogroside III.

66. The composition of any one of claims 37-65, wherein the solution has a pH of less than 7.

67. The composition of claim 66, wherein the solution has a pH between 1 and 7.

68. The composition of claim 66, wherein the solution has a pH between 1 and 5.

69. A composition, comprising a bulking agent and one or more compounds having the structure of formula (I):

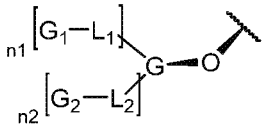


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and 

;

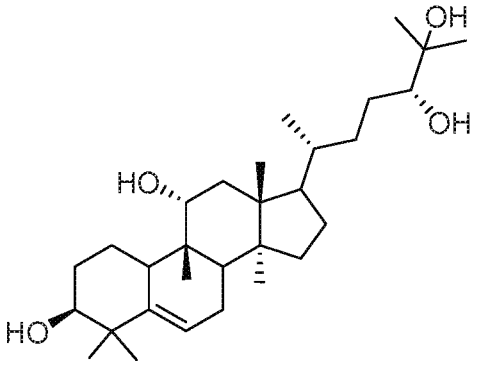
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

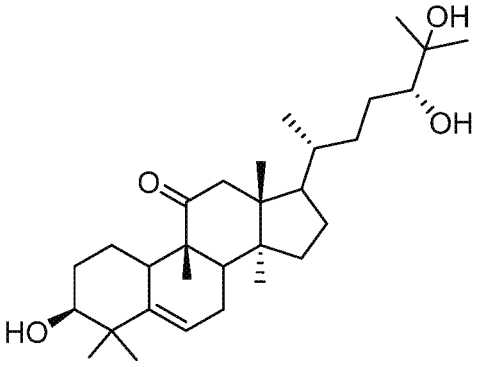
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

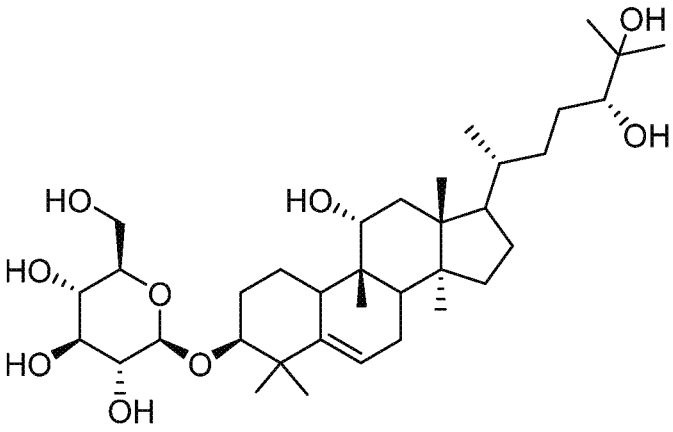
with the proviso that formula (I) is not selected from:


OH
OH
HO
HO

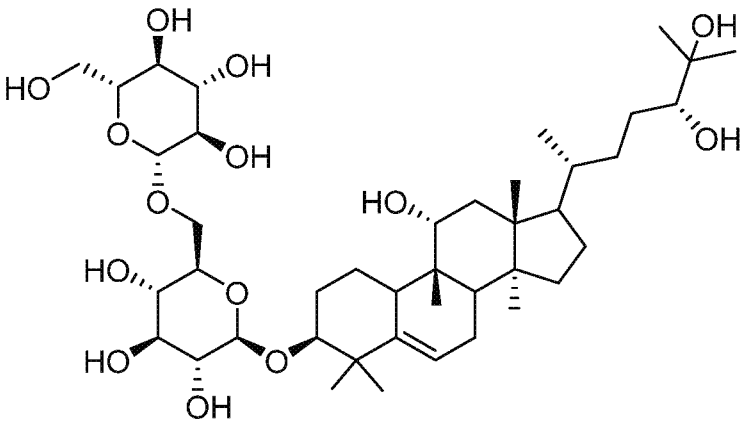
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OH
OH
O
HO

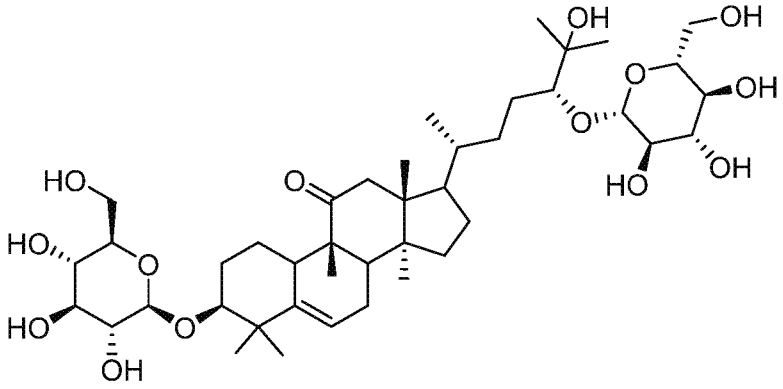
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OH
OH
HO
HO
HO
O
HO
O
OH

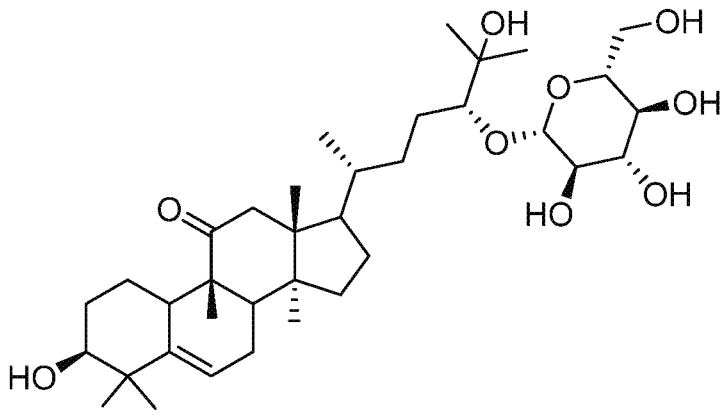
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OH
HO
OH
O
OH
O
OH
HO
HO
O
HO
O
OH

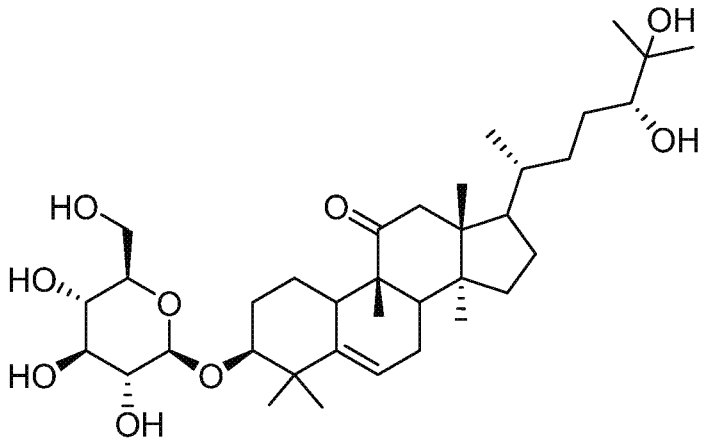
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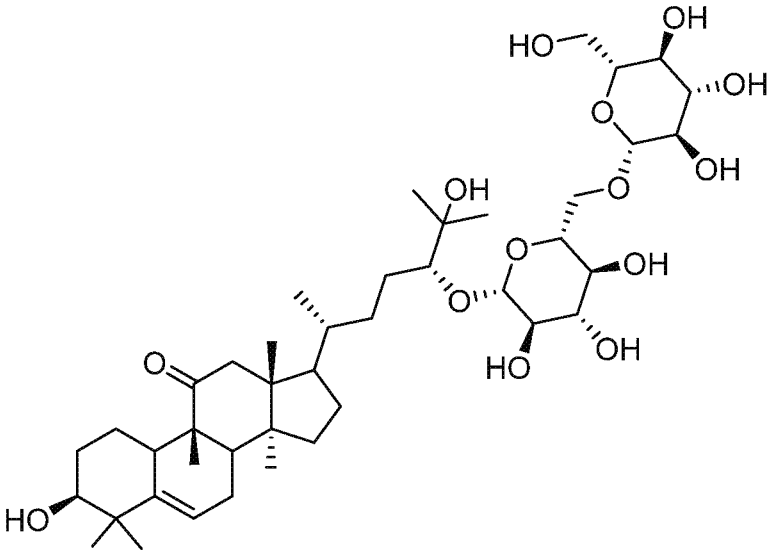
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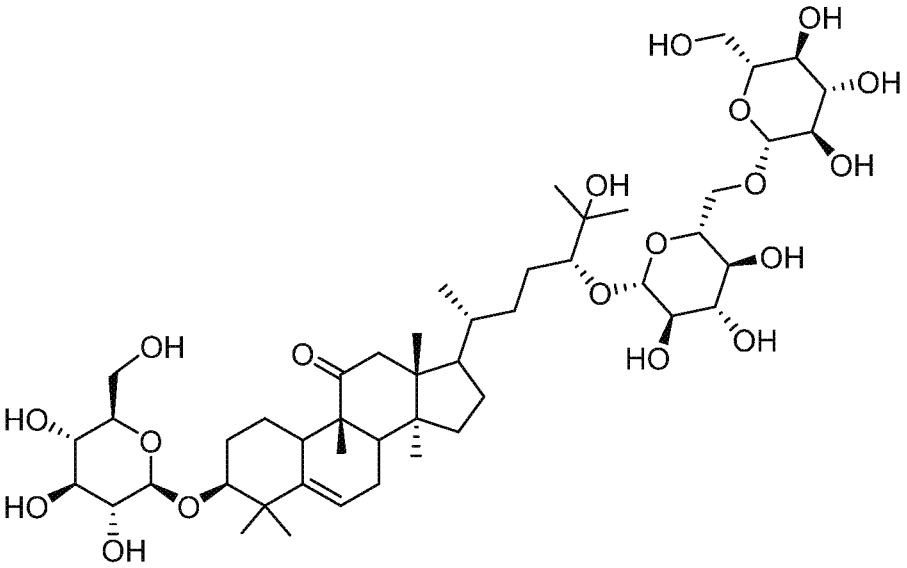
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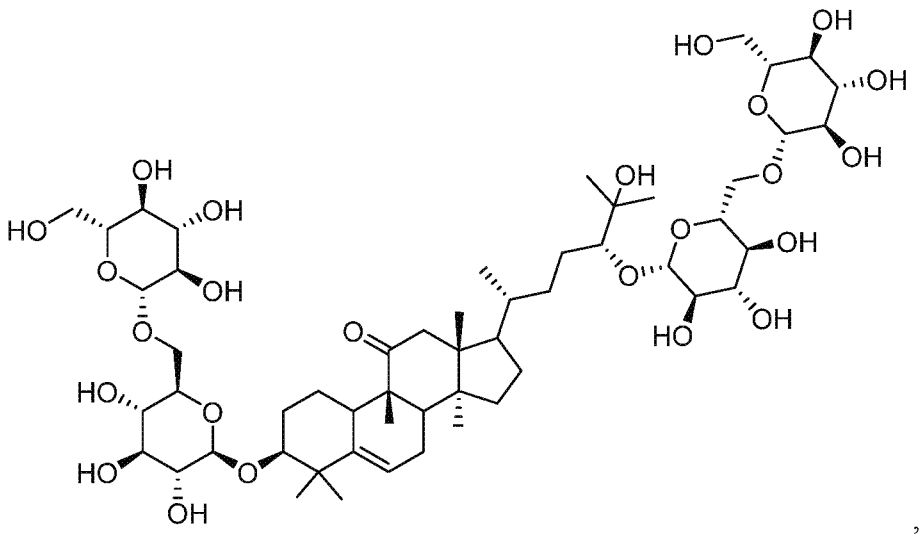
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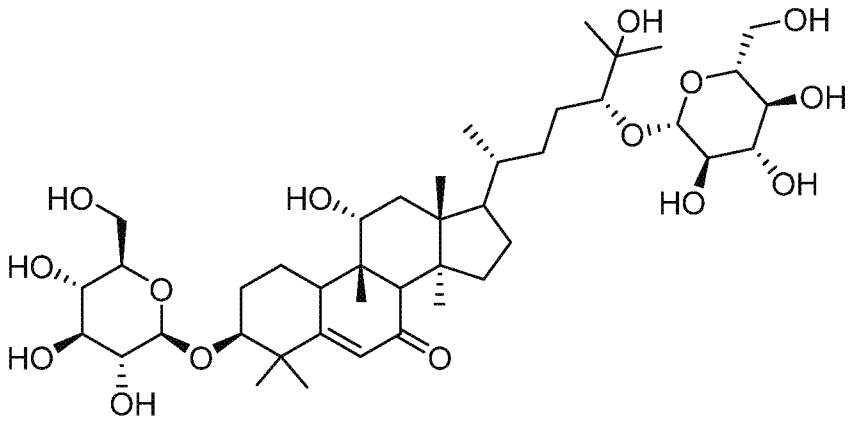
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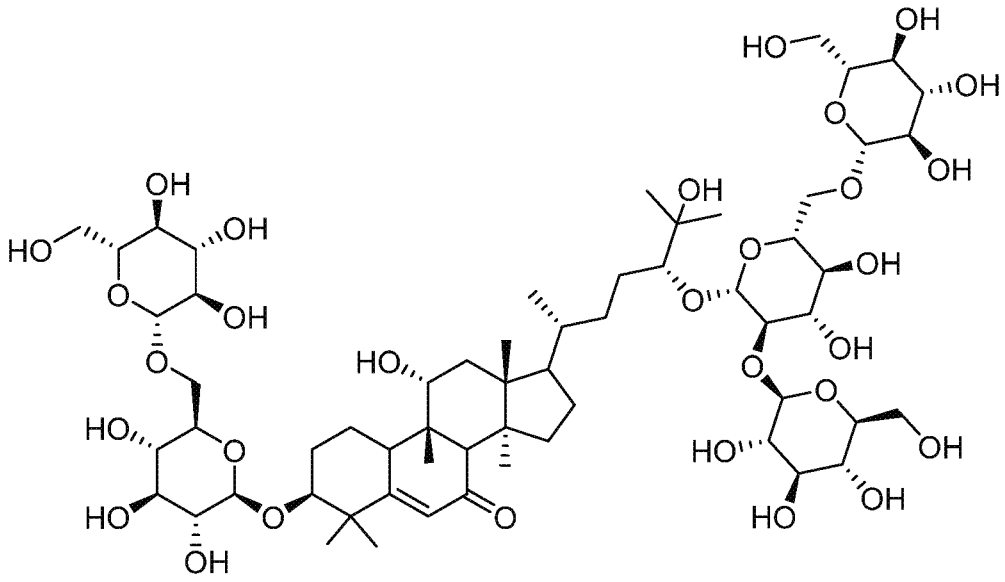
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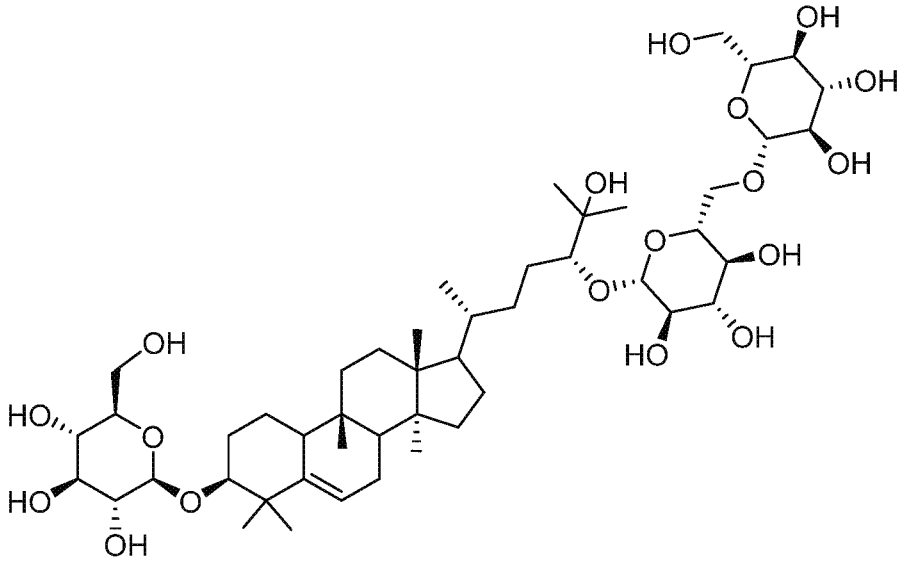
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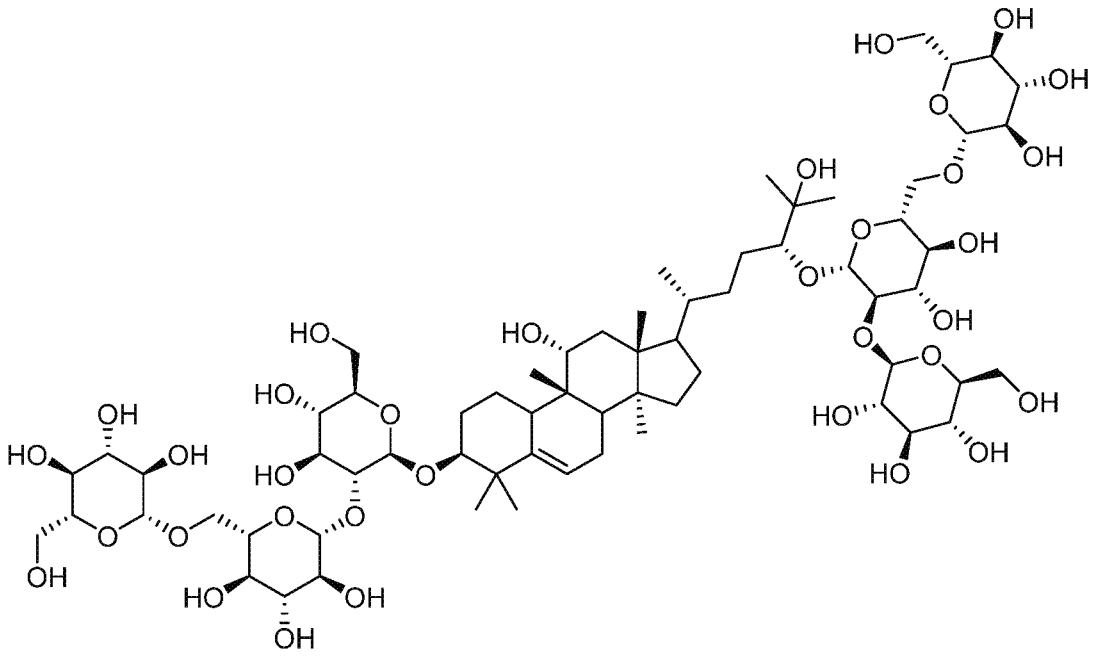
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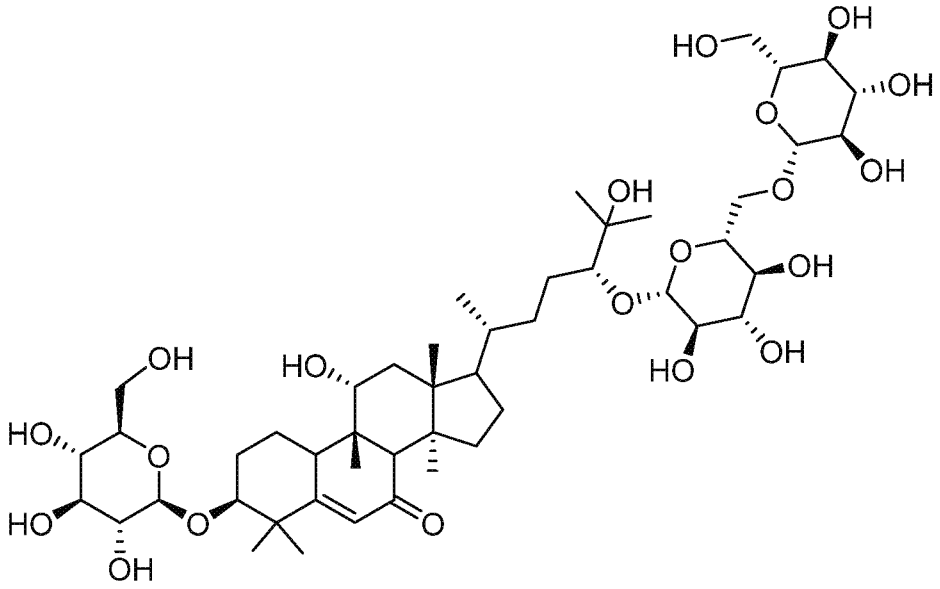
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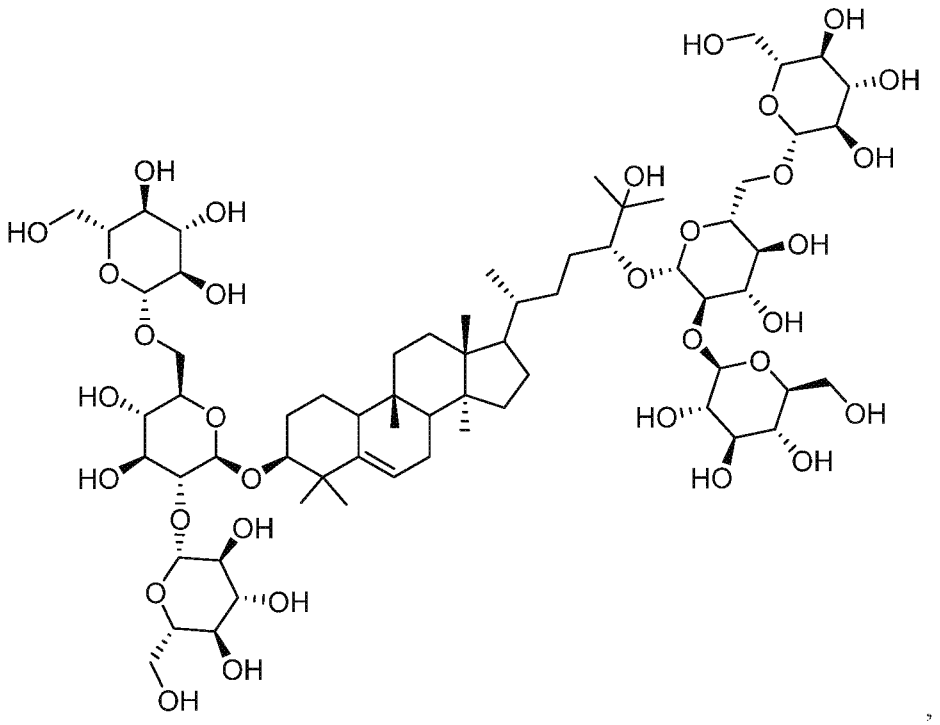


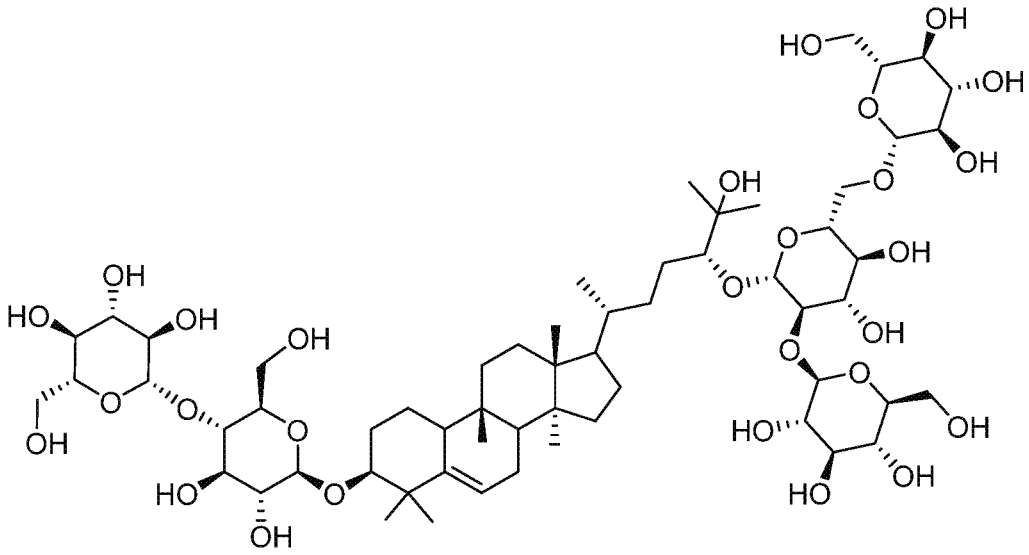
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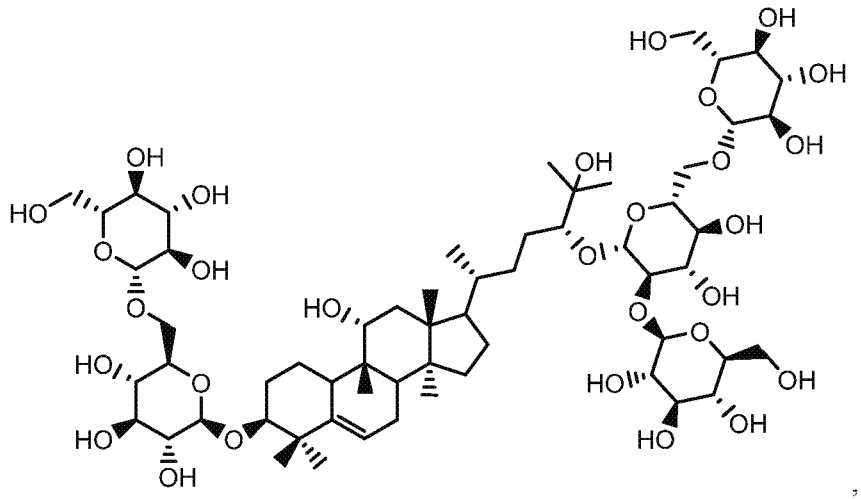


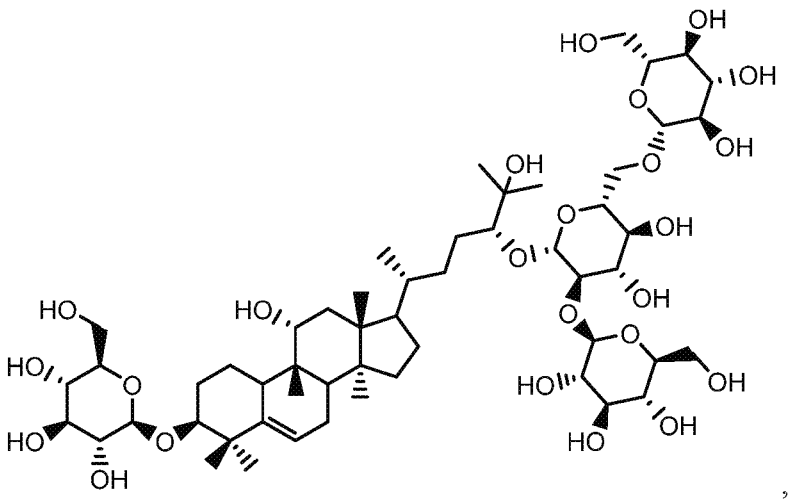
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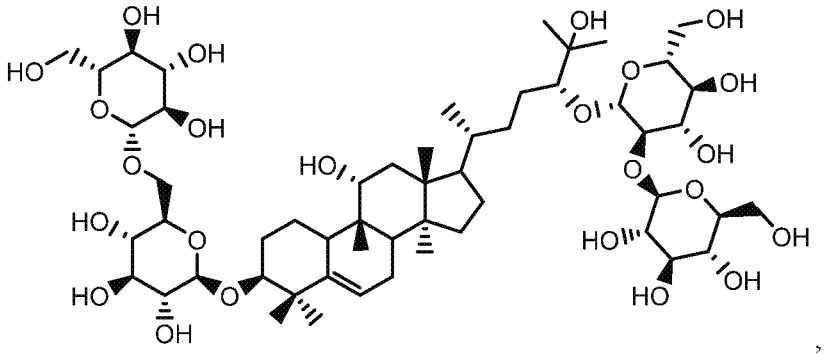




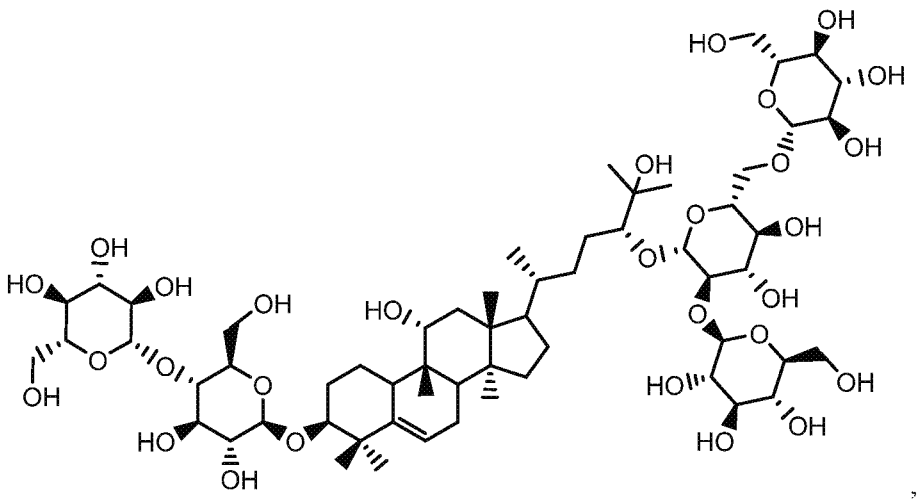




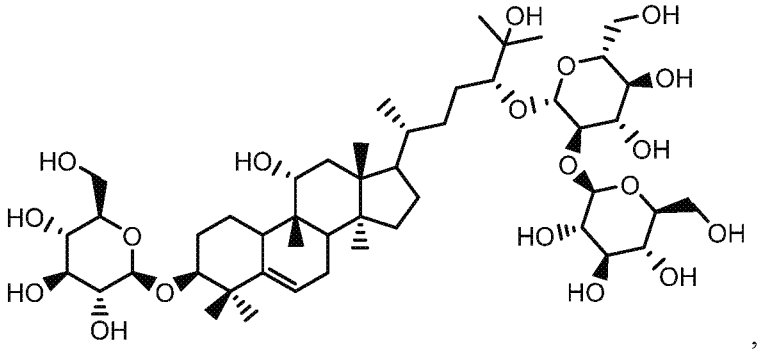




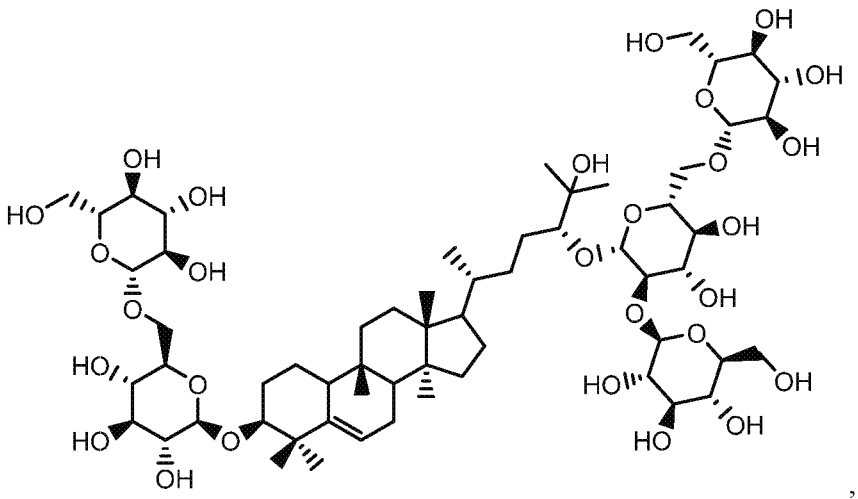
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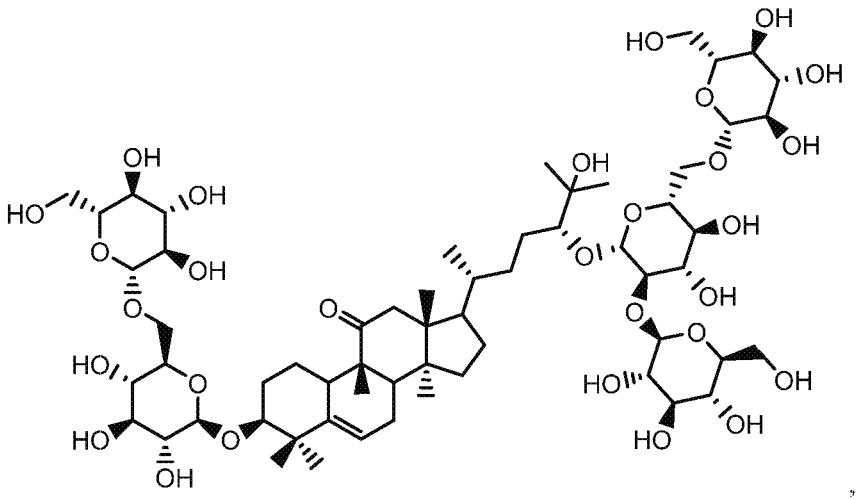
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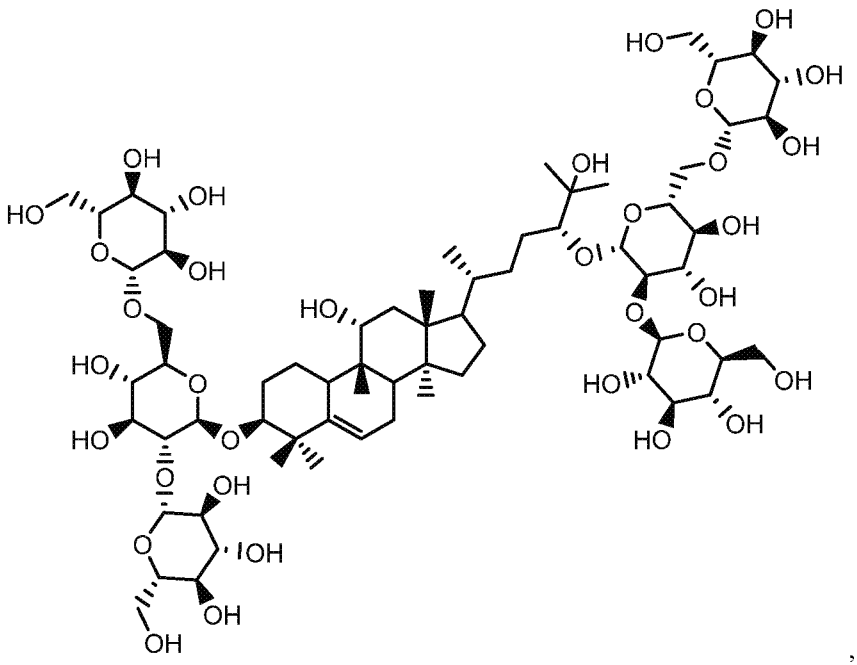
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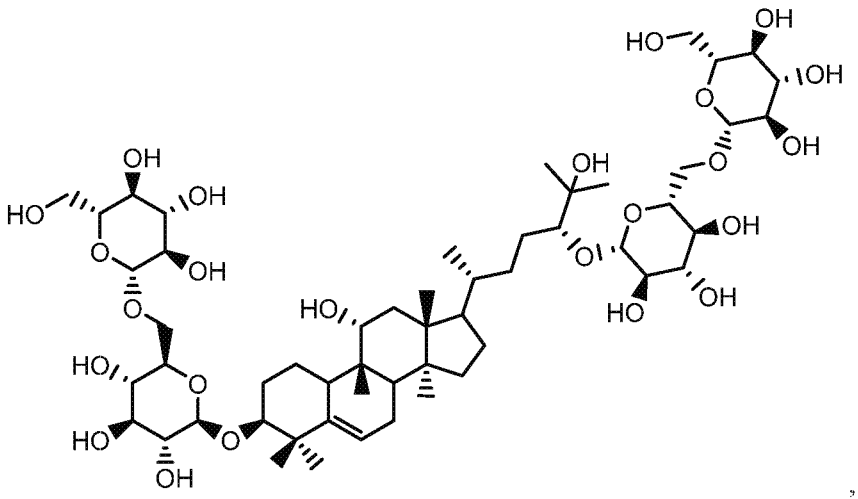


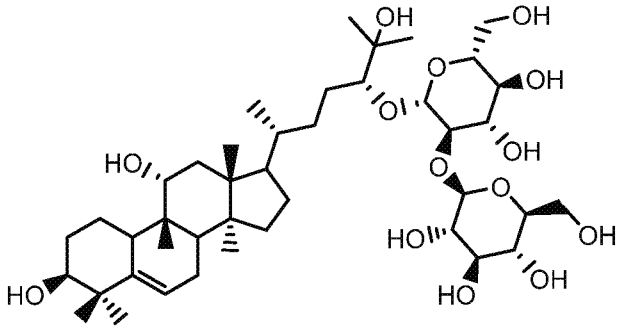
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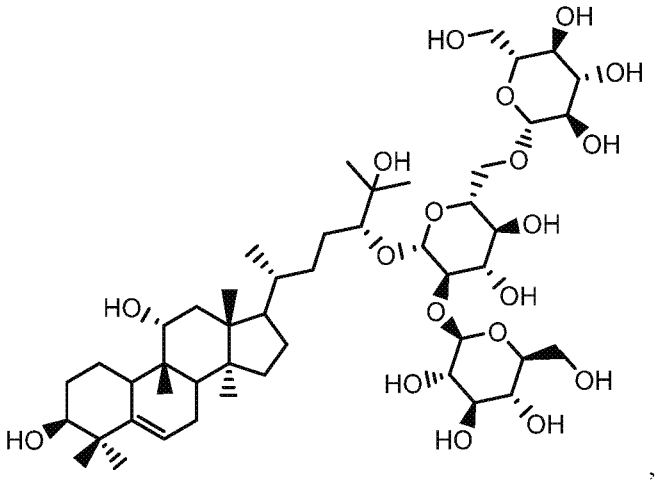


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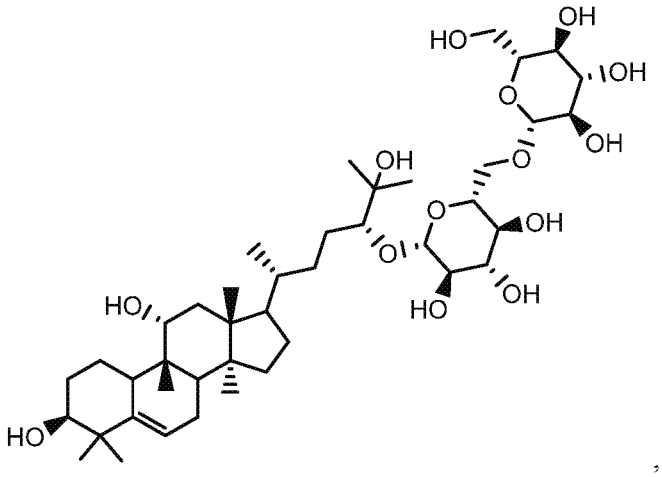




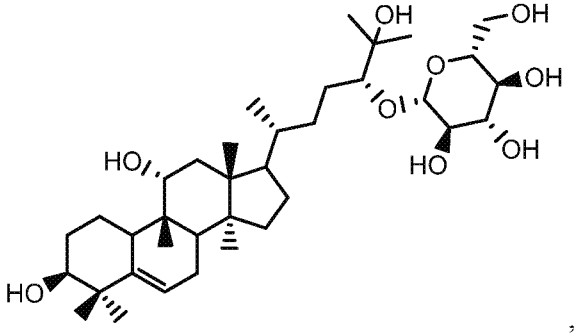




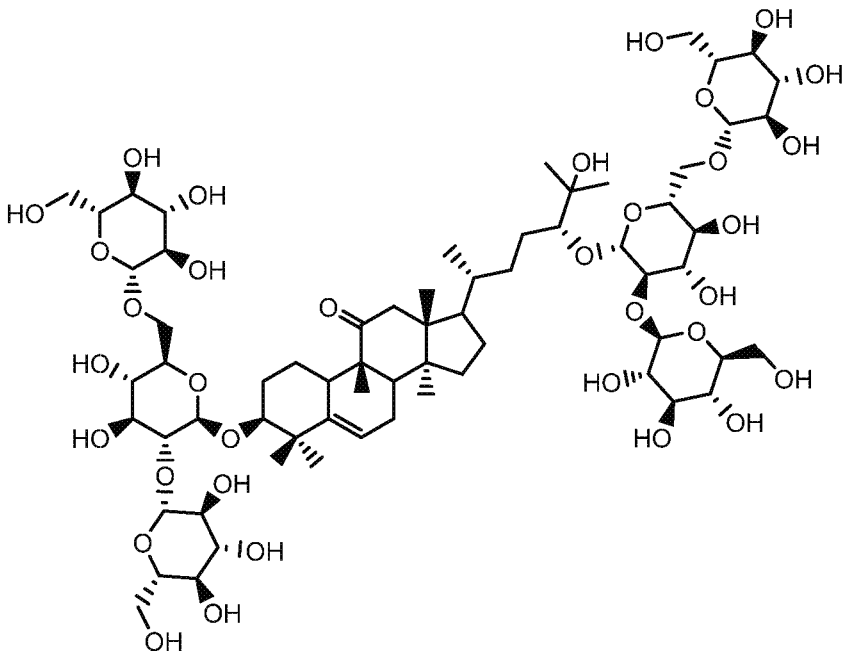
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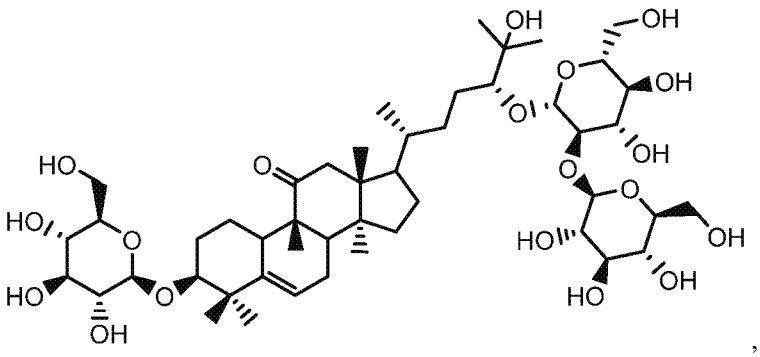
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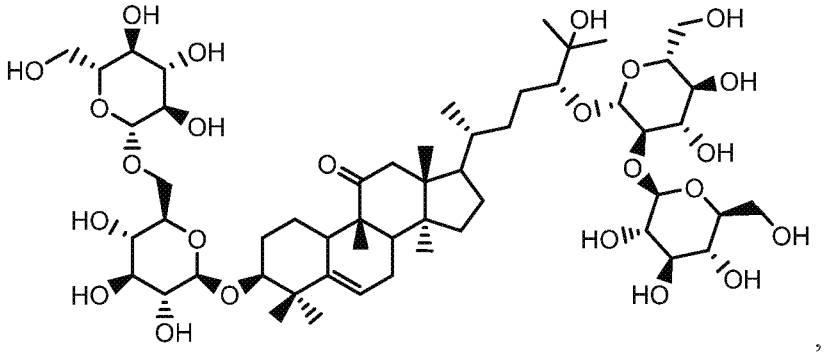
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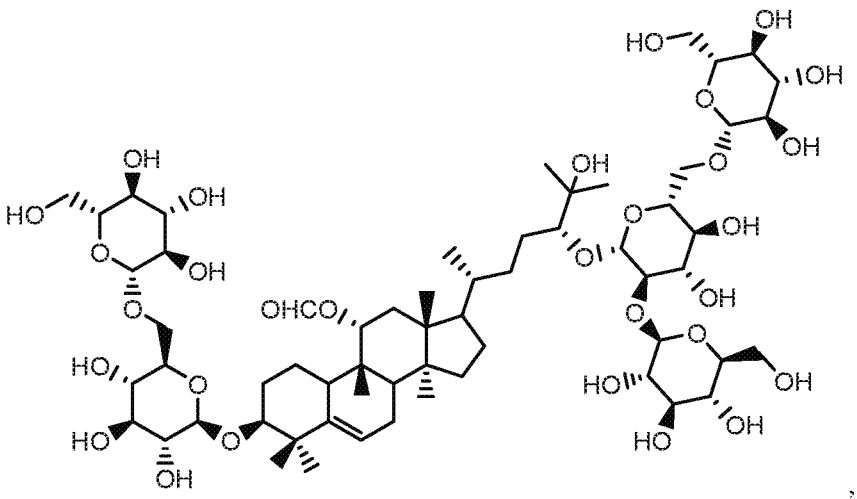
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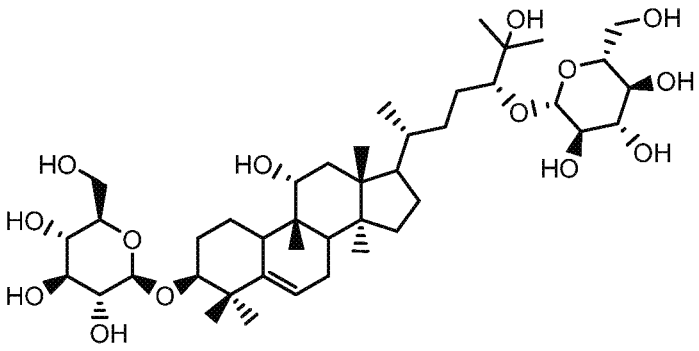
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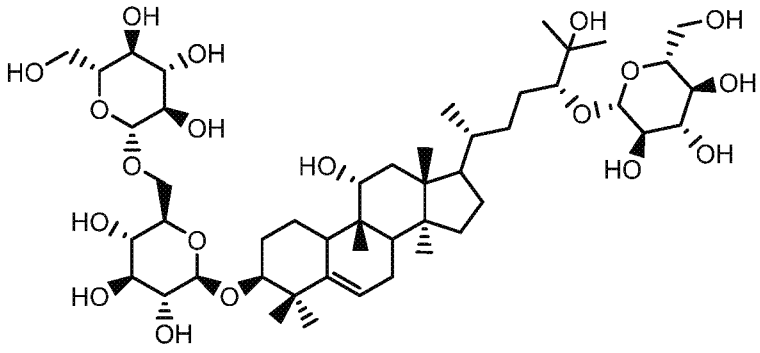
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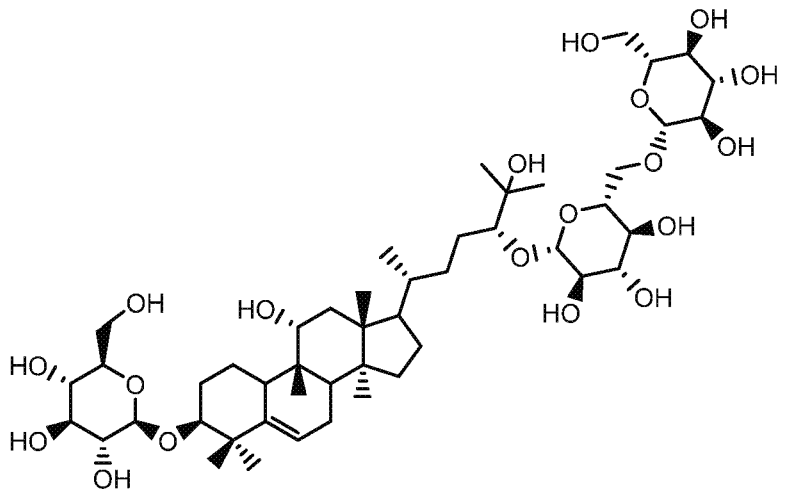
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,



, and



70. The composition of claim 69, comprising greater than 0.5% by weight of the compound.

71. The composition of claim 69, comprising greater than 1% by weight of the compound.

72. The composition of claim 69, comprising greater than 2% by weight of the compound.

73. The composition of claim 69, comprising greater than 3% by weight of the compound.

74. The composition of claim 69, comprising between 0.5% and 5% by weight of the compound.

75. The composition of claim 69, comprising between 1% and 5% by weight of the compound.

76. The composition of any one of claims 69-75, comprising between greater than 30% by weight of the bulking agent.

77. The composition of any one of claims 69-75, comprising between greater than 50% by weight of the bulking agent.

78. The composition of any one of claims 69-75, comprising between greater than 70% by weight of the bulking agent.

79. The composition of any one of claims 69-75, comprising between greater than 90% by weight of the bulking agent.

80. The composition of any one of claims 69-75, comprising between 30% and 99.5% by weight of the bulking agent.

81. The composition of any one of claims 69-75, comprising between 30% and 95% by weight of the bulking agent.

82. The composition of any one of claims 69-75, comprising between 50% and 99.5% by weight of the bulking agent.

83. The composition of any one of claims 69-82, wherein the bulking agent is selected from the group consisting of maltodextrin, dextro-maltodextrin blends, corn syrup solids, sucrose, fructose, glucose, invert sugar, sorbitol, xylose, ribulose, mannose, mannitol, galactitol, lactitol, isomalt, maltose, tagatose, lactose, inulin, glycerol, propylene glycol, polydextrose, fructooligosaccharides, cellulose, cellulose derivatives, erythritol, and combinations thereof.

84. The composition of any one of claims 69-82, wherein the bulking agent is maltodextrin.

85. The composition of any one of claims 69-82, wherein the bulking agent is lactose.

86. The composition of any one of claims 69-82, wherein the bulking agent is erythritol.

87. The composition of any one of claims 69-82, wherein the bulking agent is mannitol.

88. The composition of any one of claims 69-87, wherein the bulking agent is in particulate form and the compound is present as a coating on the particles.

89. The composition of any one of claims 69-87, wherein the composition is in particulate form.

90. The composition of claim 88 or 89, wherein the average particle size is between 200 μm and 2 mm.

91. The composition of claim 88 or 89, wherein the average particle size is between 200 μm and 500 μm.

92. The composition of claim 88 or 89, wherein the average particle size is between 500 μm and 700 μm.

93. The composition of claim 88 or 89, wherein the average particle size is between 800 μm and 1.5 mm.

94. The composition of any one of claims 69 to 93, comprising one or more additional compounds selected from the group consisting of steviosides, rebaudiosides, glycyrrhizic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzein, curculin, mabinlin, pentadin, monatin, abrusosides, albiziasaponins, Baiyunoside, bryoside, cussoracosides, cyclocarioside, mukurozioside, osladin, periandrin, phlomisoside, Polypodosides, pterocaryosides, rubusosides, telosmosides, selligueain A, hernandulcin, phlorizin, trilobatin, phylodulcin, dulcoside A, gaudichaudioside A, and combinations thereof.

95. A tabletop sweetener product, comprising a packet containing a composition of any one of claims 69-94.

96. The product of claim 95, wherein the packet is a single serving packet.

97. The product of claim 95 or 96, wherein the packet has a width between 0.2 inches and 2 inches.

98. The product of claim 95 or 96, wherein the packet has a width between 0.5 inches and 1 inch.

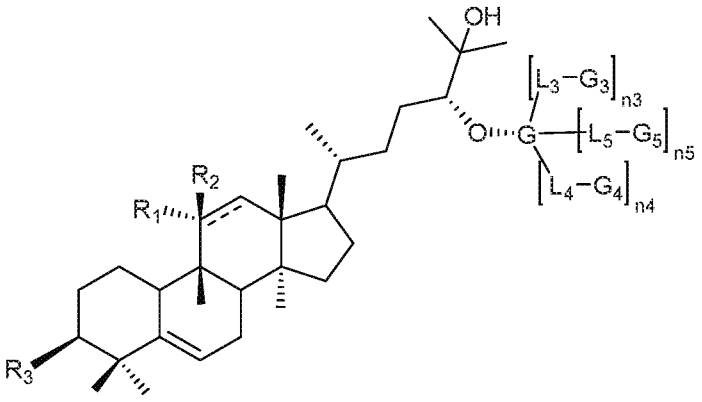
99. The product of any one of claims 95-98, wherein the packet has a length between 1 inch and 5 inches.

100. The product of any one of claims 95-98, wherein the packet has a length between 1.5 inches and 3 inches.

101. The product of any one of claims 95-100, comprising between 0.5 g and 3 g of the composition.

102. The product of any one of claims 95-100, comprising between 0.75 g and 1.5 g of the composition.

103. An ingestible composition, comprising an ingestibly acceptable ingredient and one or more compounds having the structure of formula (I):

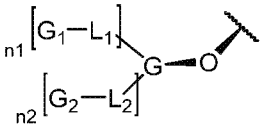


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and  ;

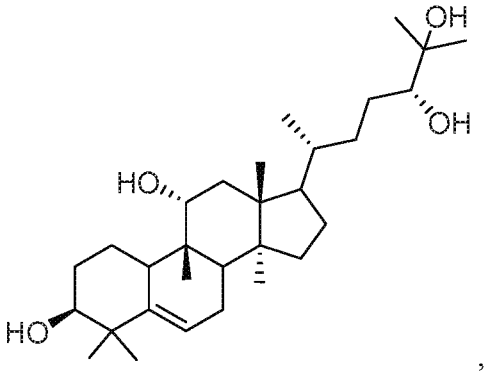
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

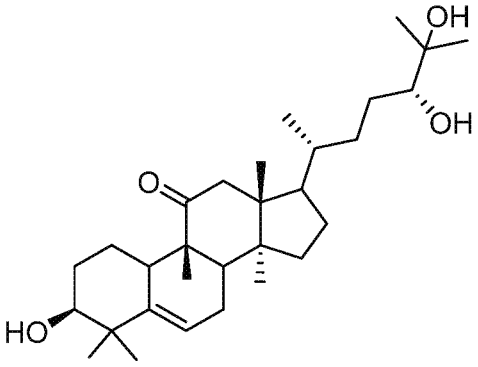
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

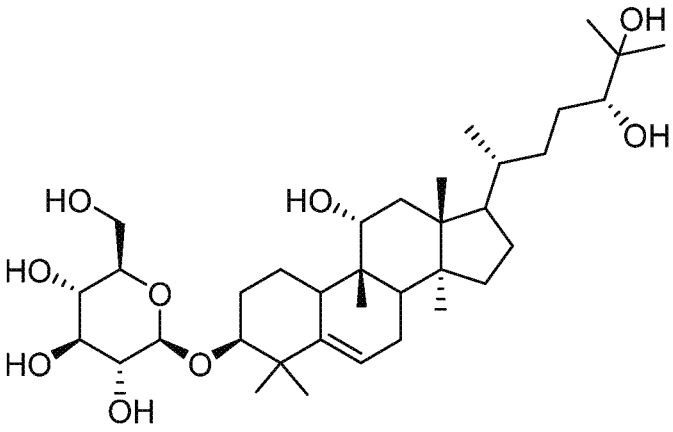
with the proviso that formula (I) is not selected from:


OH
OH
HO
HO

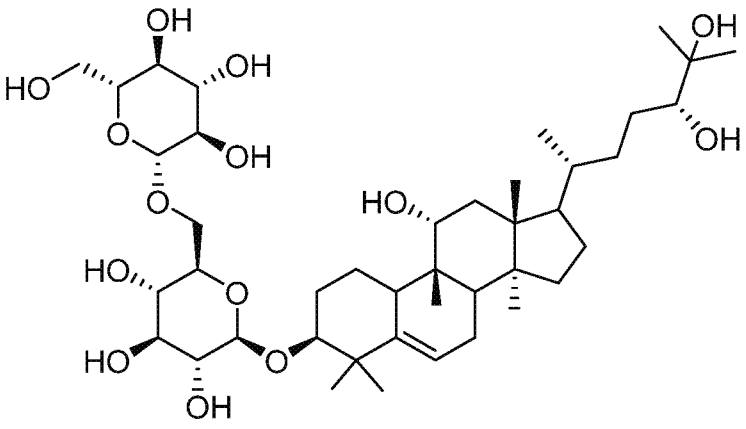
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OH
OH
O
HO

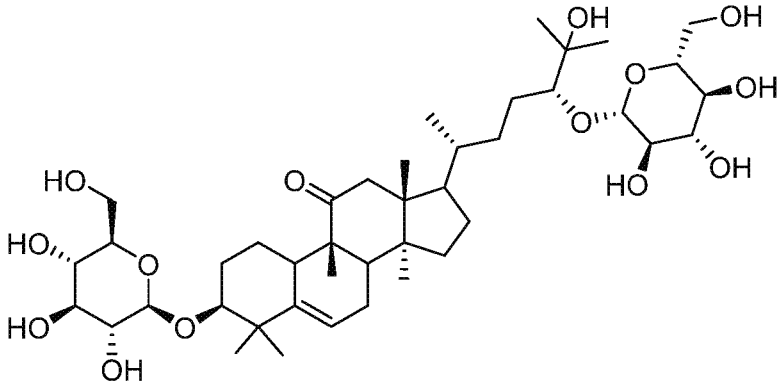
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OH
OH
HO
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HO
O
HO
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OH

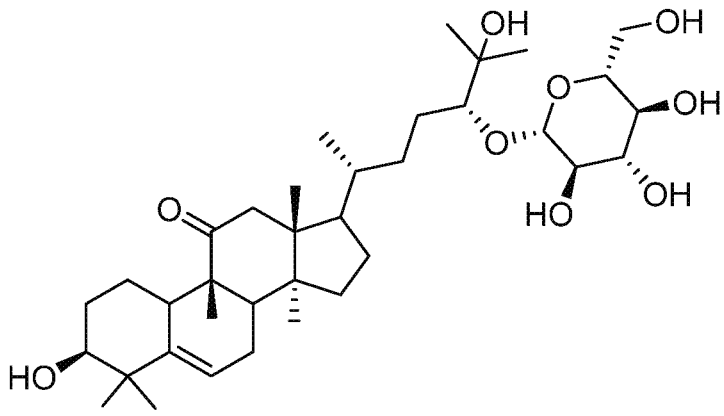
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OH
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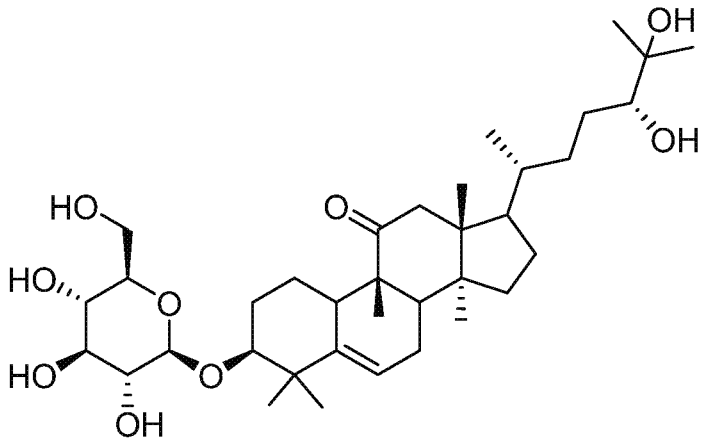
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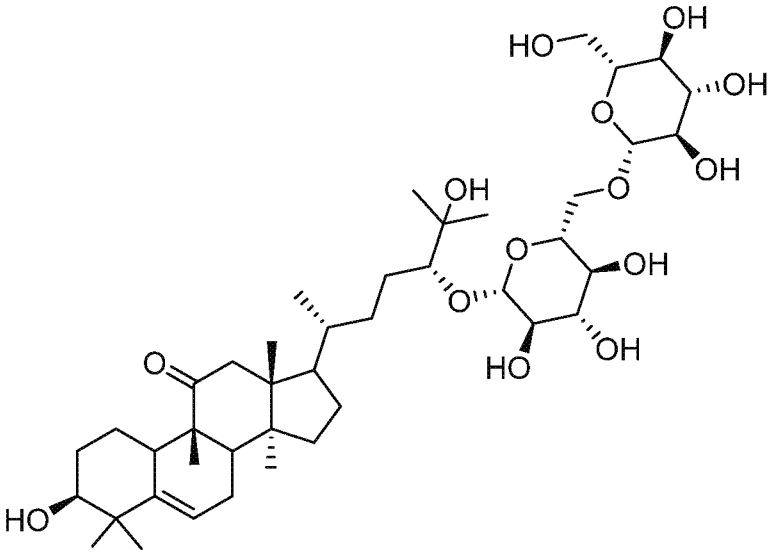
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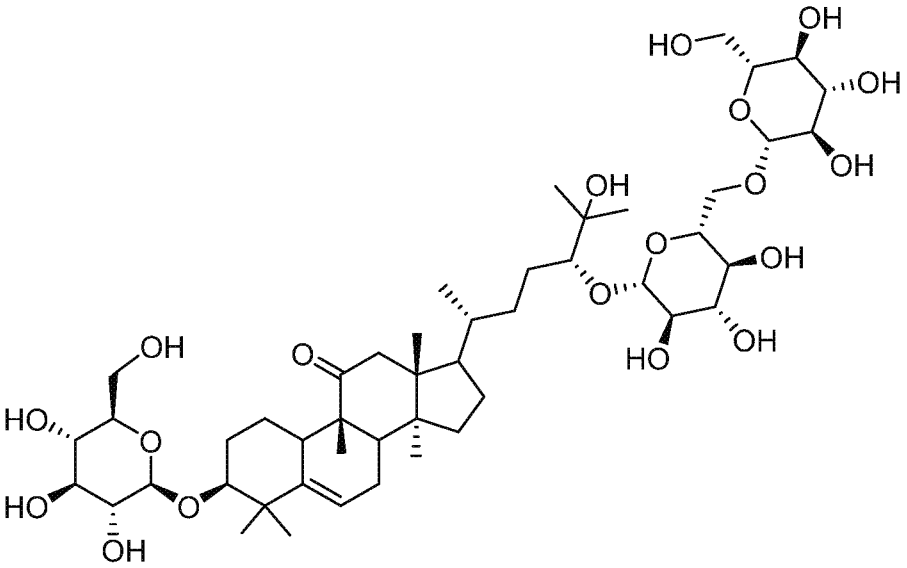
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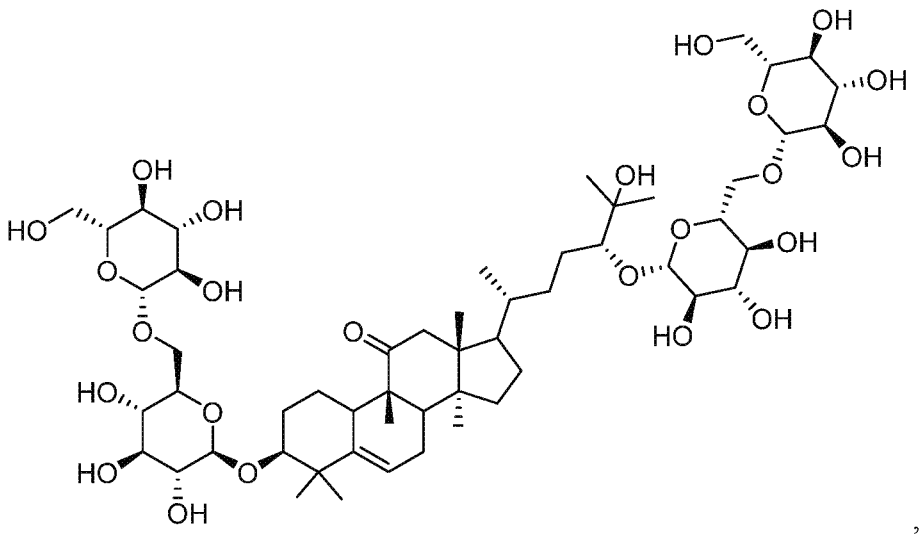
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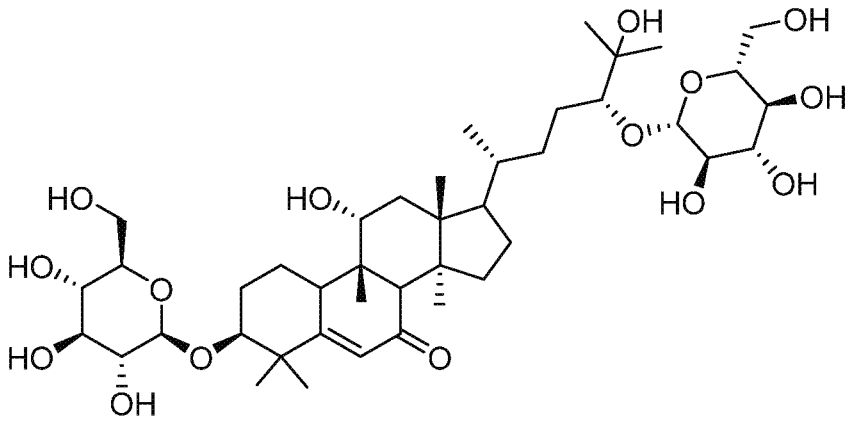
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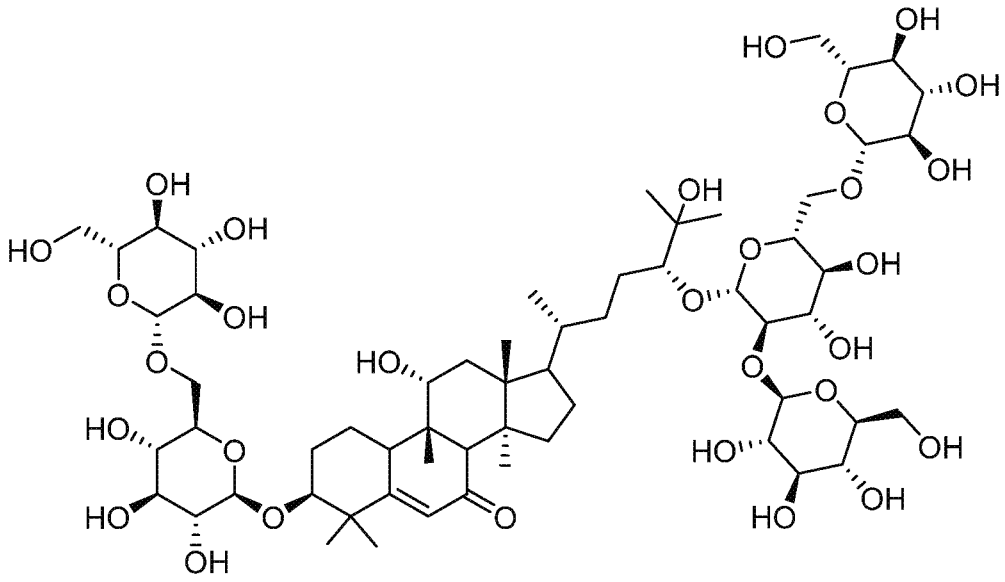
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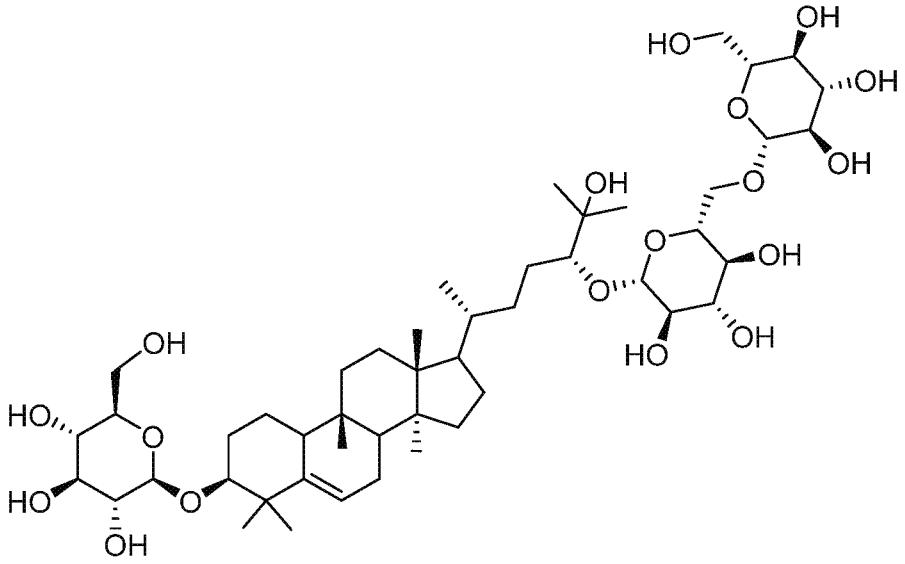
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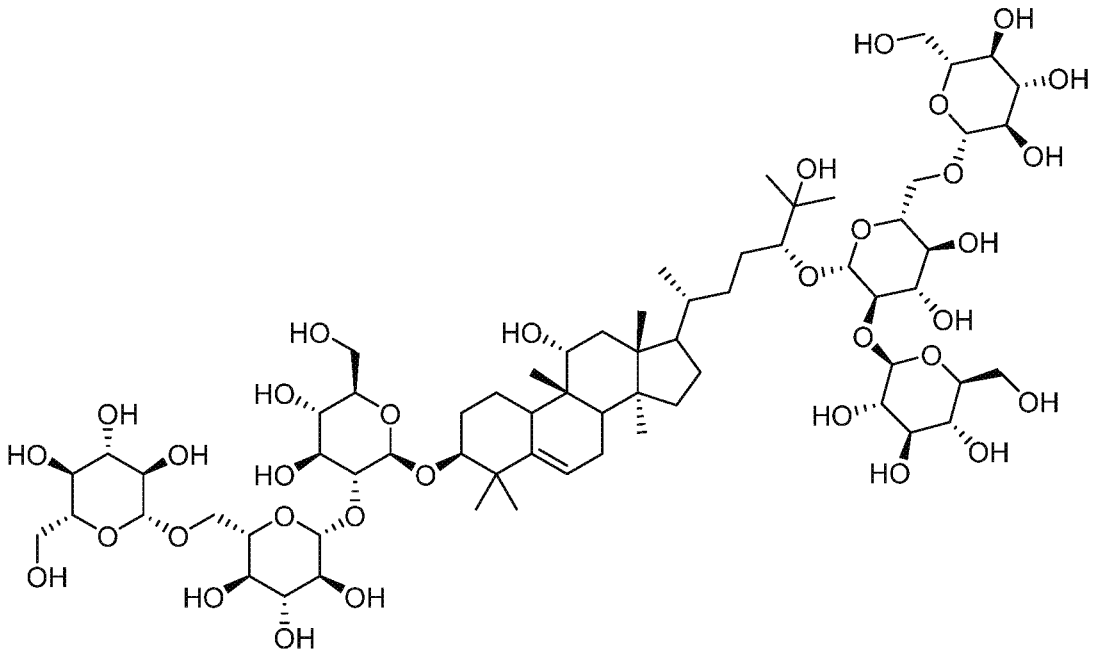
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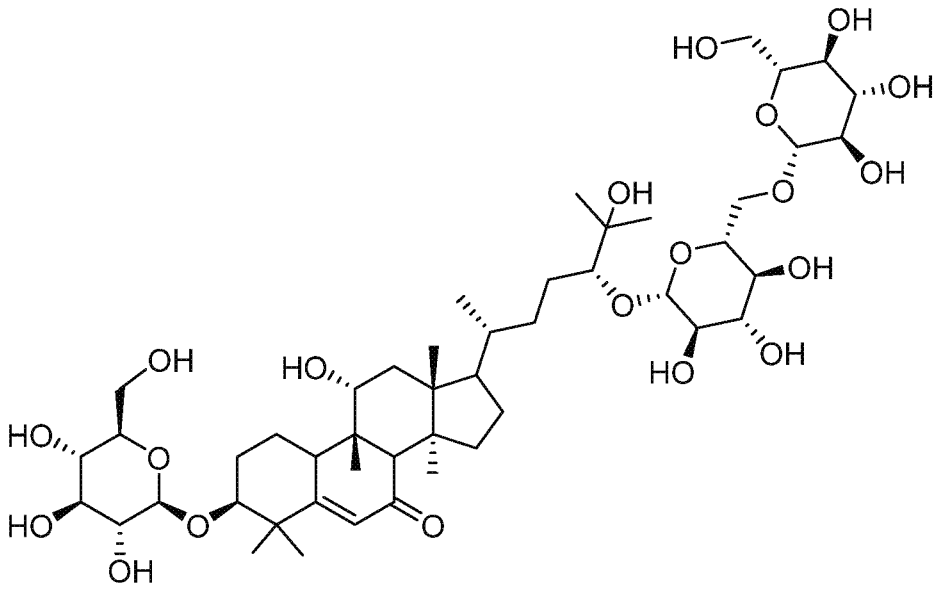
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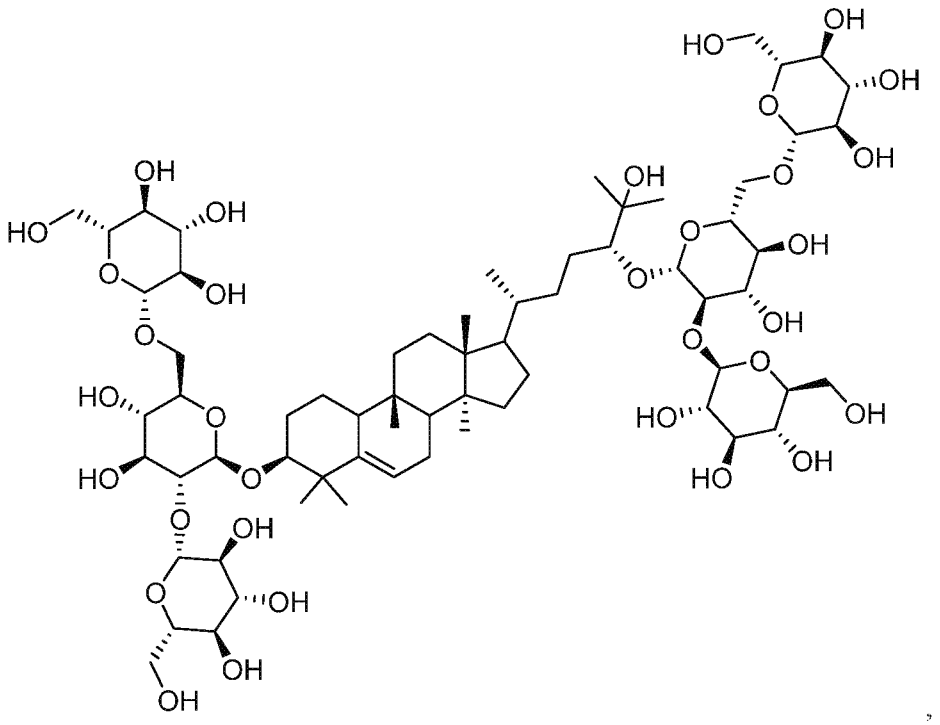


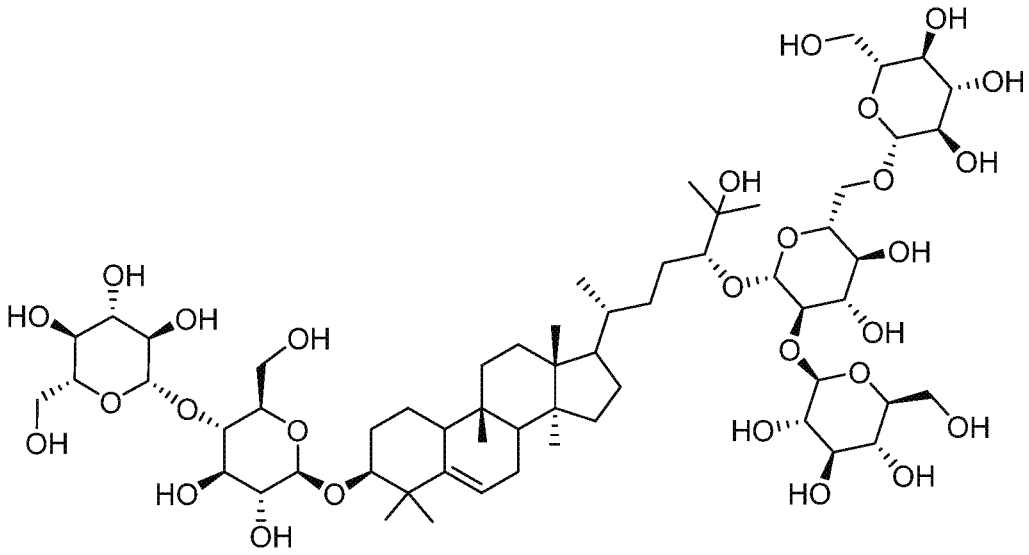
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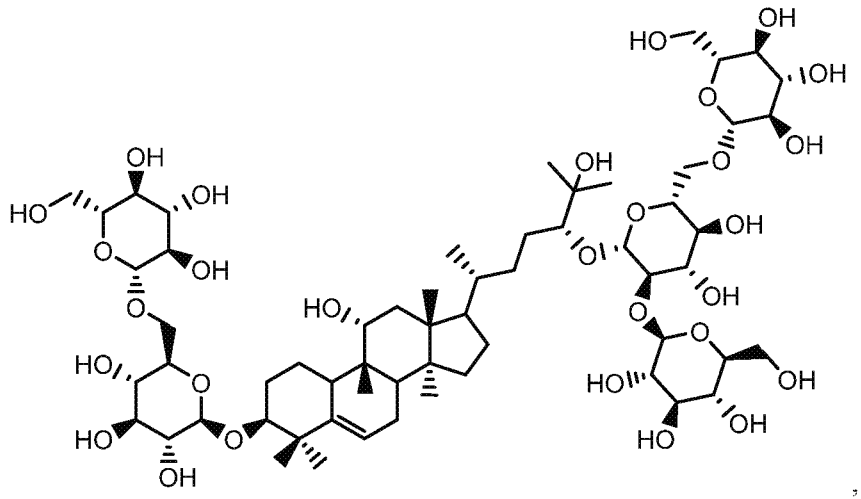


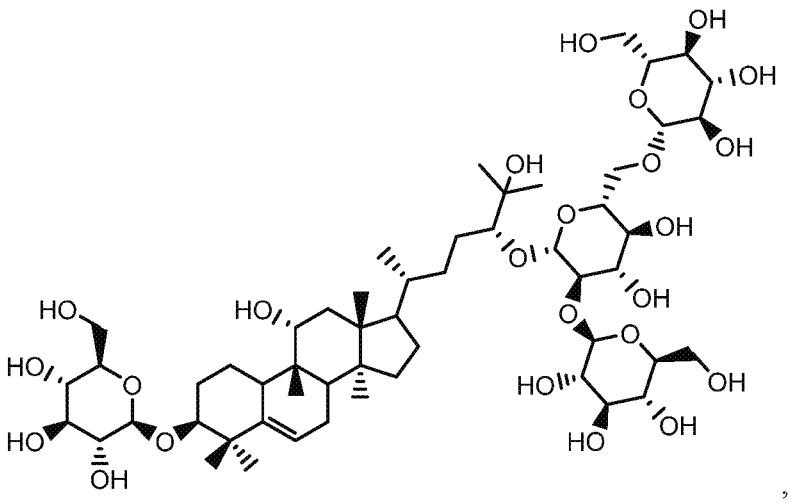
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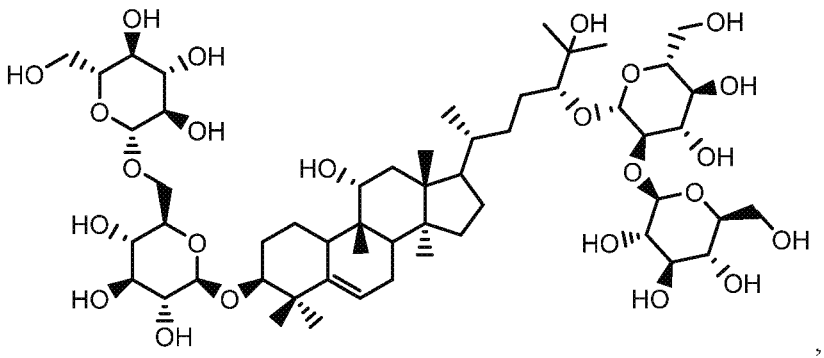




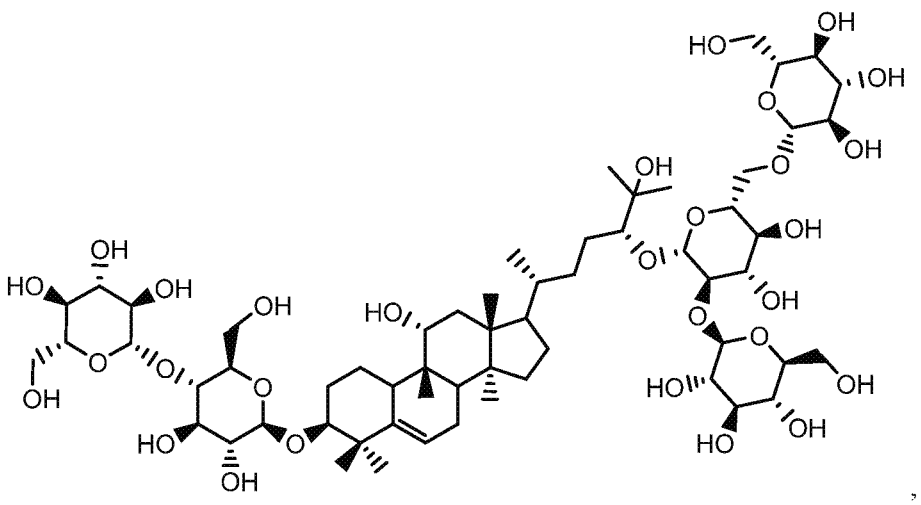




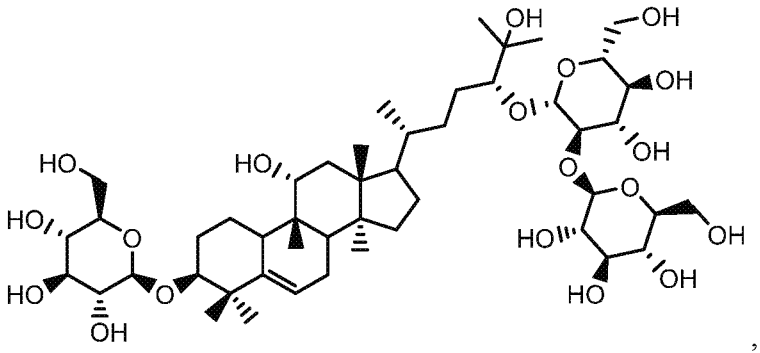




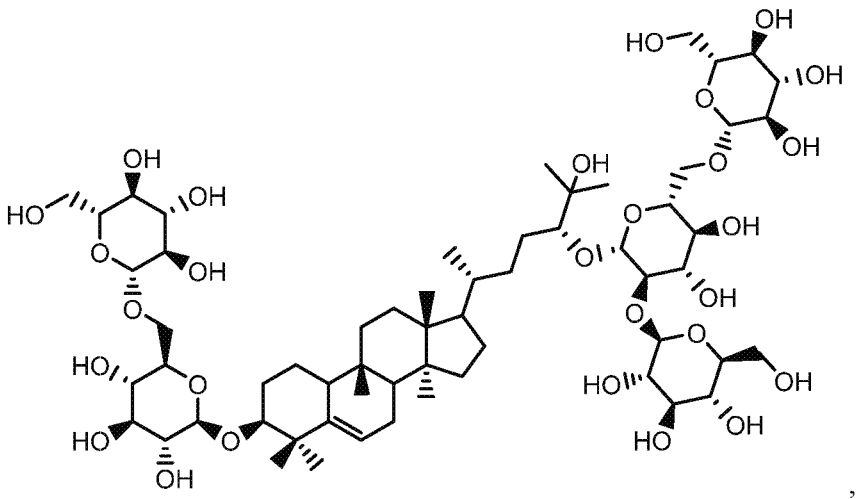
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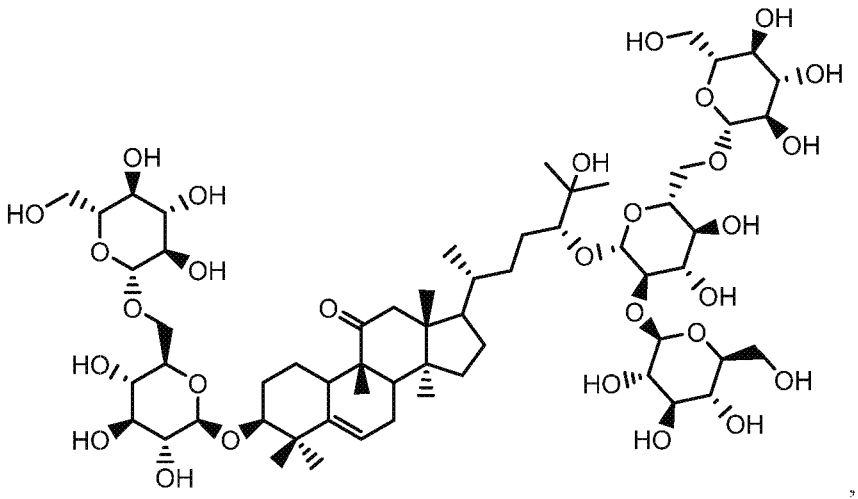
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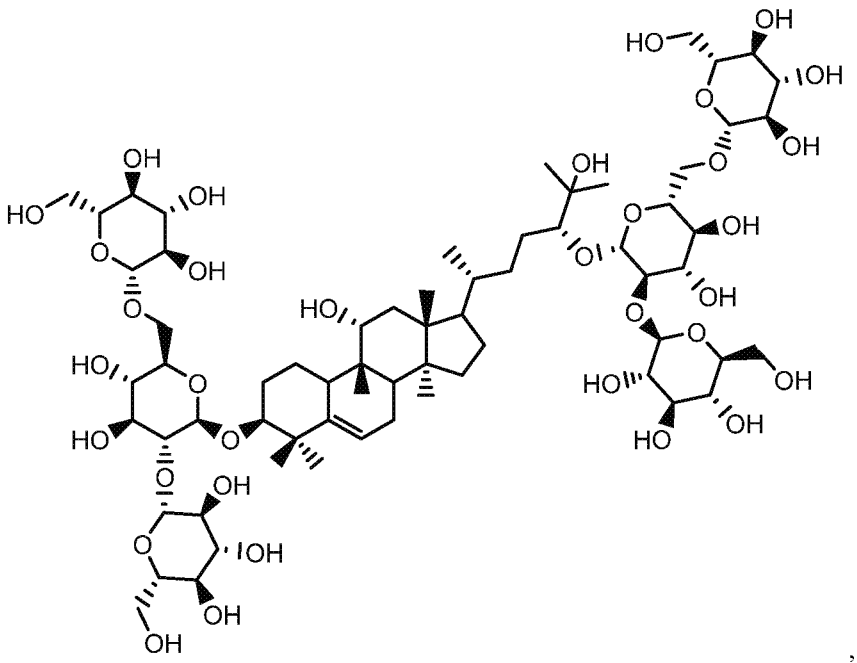
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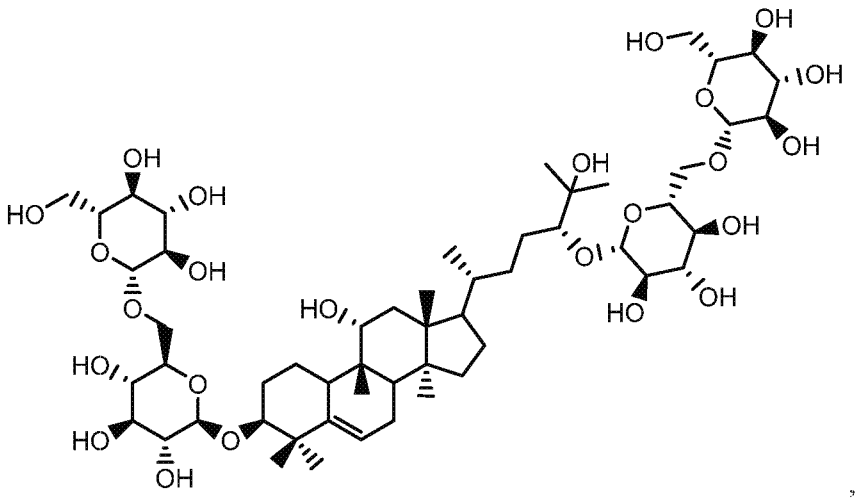


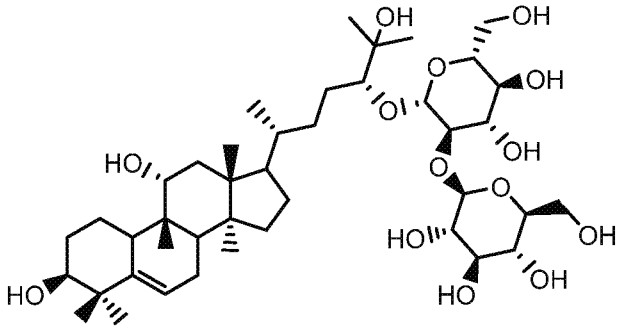
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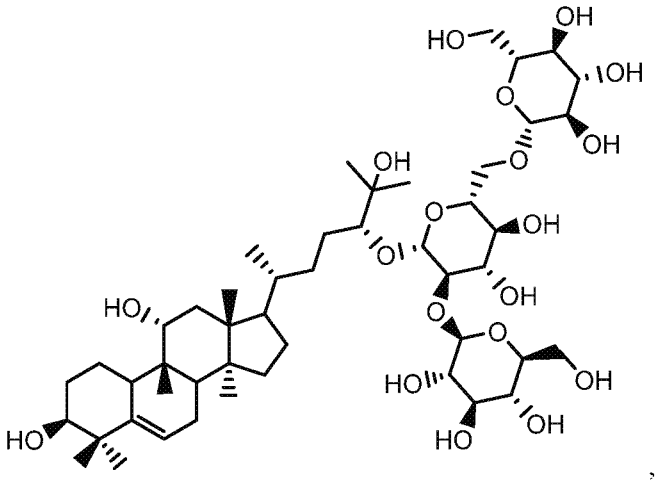


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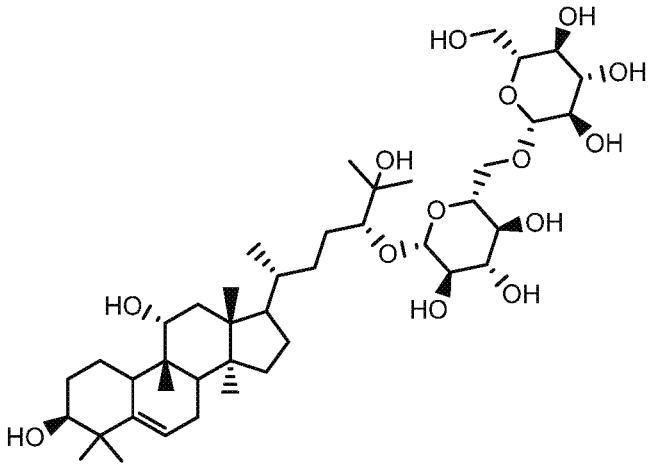




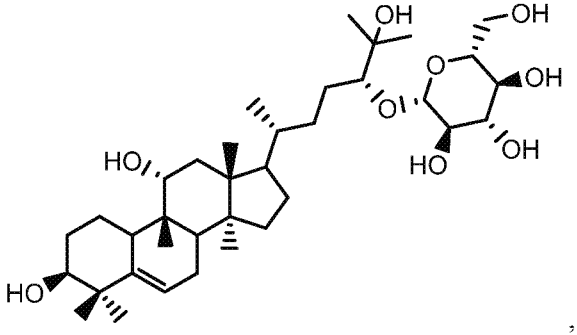




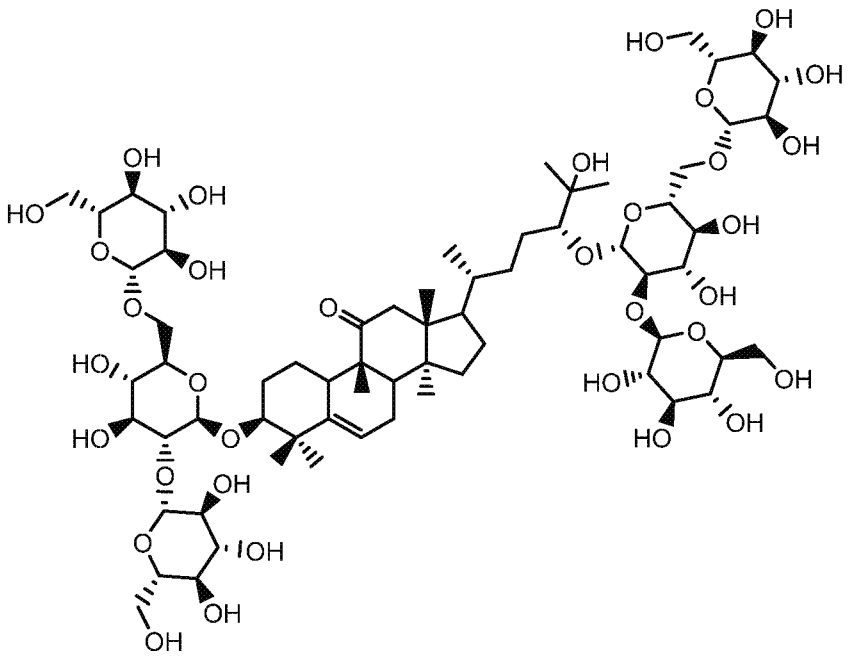
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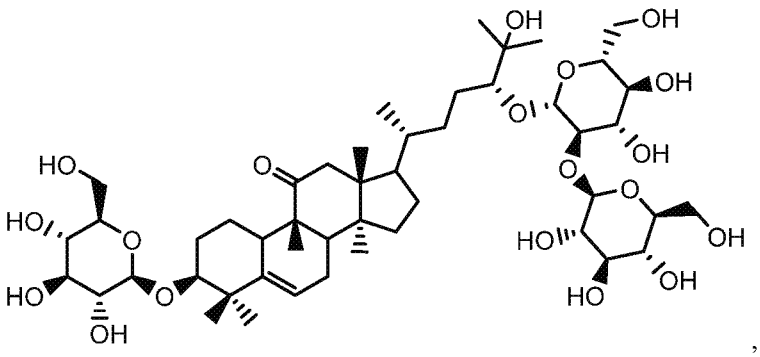
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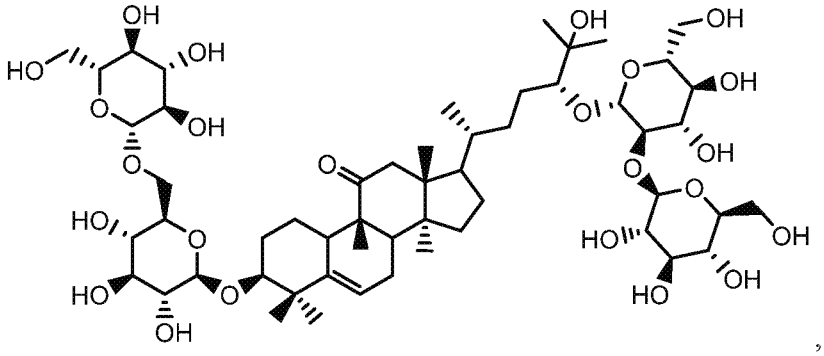
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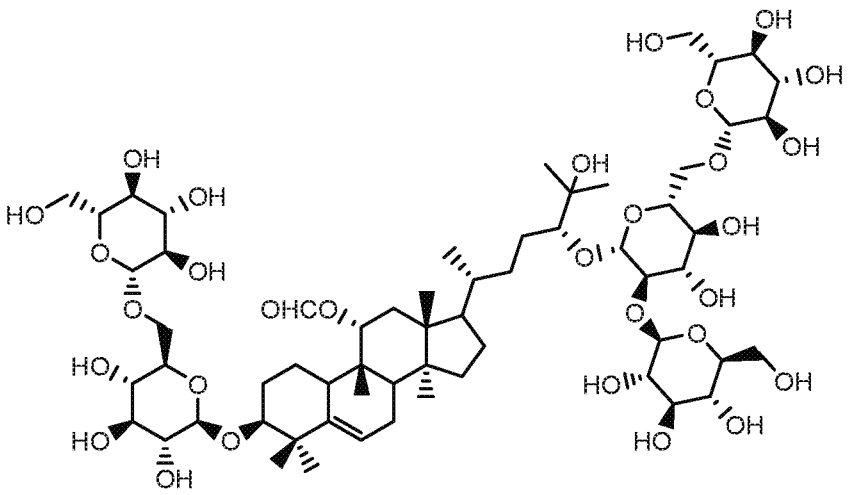
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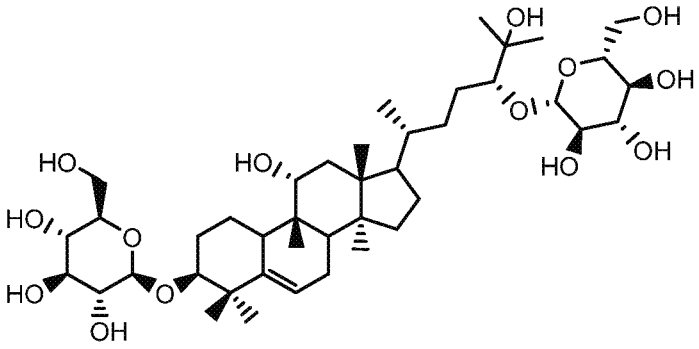
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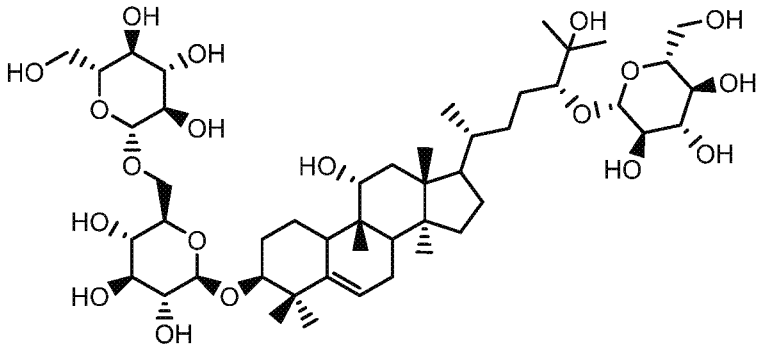
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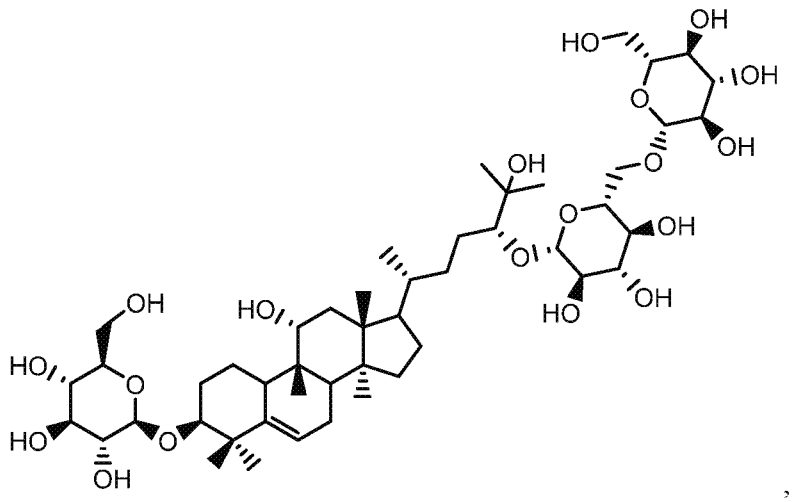
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, and



wherein the concentration of the compound in the composition is greater than 100 ppm.

104. The composition of claim 103, wherein the concentration of the compound is greater than 300 ppm.

105. The composition of claim 103, wherein the concentration of the compound is greater than 500 ppm.

106. The composition of claim 103, wherein the concentration of the compound is greater than 800 ppm.

107. The composition of claim 103, wherein the concentration of the compound is between 300 ppm and 4000 ppm.

108. The composition of claim 103, wherein the concentration of the compound is between 300 ppm and 2000 ppm.

109. The composition of claim 103, wherein the concentration of the compound is between 800 ppm and 1500 ppm.

110. The composition of any one of claims 103-109, wherein the composition is a food or beverage product.

111. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises vegetable juice, fruit juice, beer, or wine.

112. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises an acid.

113. The composition of claim 112, wherein the acid is citric acid or phosphoric acid.

114. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a bitterant.

115. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a coloring agent.

116. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a preservative.

117. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a functional ingredient.

118. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a buffer.

119. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a natural flavor.

120. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises an artificial flavor.

121. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a food additive.

122. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a sour flavorant.

123. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises one or more fats, oils, or emulsions.

124. The composition of claim 110, wherein the ingestibly acceptable ingredient comprises a flour or a vegetable powder.

125. The composition of claim 110, wherein the food or beverage product is selected from colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies.

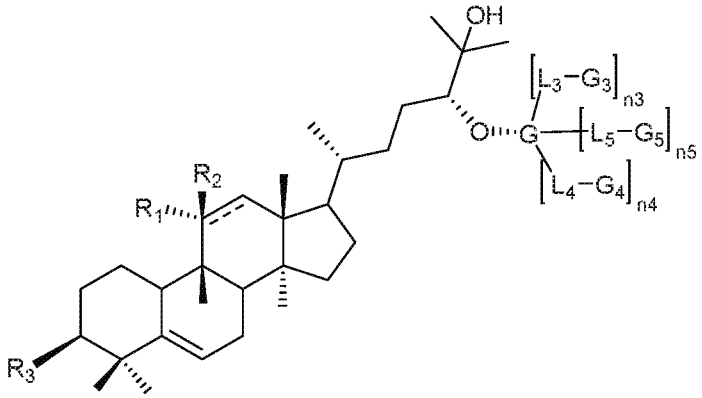
126. The composition of claim 110, wherein the food or beverage product is a soft drink.

127. The composition of any one of claims 110-126, wherein the composition is a solution having a pH of less than 7.

128. The composition of any one of claims 110-126, wherein the composition is a solution having a pH between 1 and 5.

129. The composition of any one of claims 110 to 128, comprising one or more additional compounds selected from the group consisting of steviosides, rebaudiosides, glycyrrhizic acid, glycyrrhizin, GAMG (glycyrrhetinic acid monoglucuronide), thaumatin, monellin, brazzein, curculin, mabinlin, pentadin, monatin, abrusosides, alibiziasaponins, Baiyunoside, bryoside, cussoracosides, cyclocarioside, mukurozioside, osladin, periandarin, phlomisoide, Polypodosides, pterocaryosides, rubusosides, telosmosides, selligueain A, hernandulcin, phlorizin, trilobatin, phylodulcin, ducloside A, gaudichaudioside A, and combinations thereof.

130. A method of increasing the sweetness of an ingestible composition, comprising combining the ingestible composition with at least one compound of formula (I):

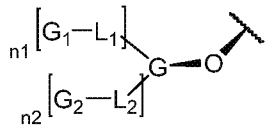


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and 

;

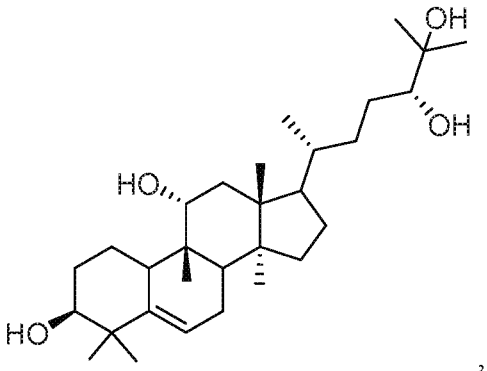
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

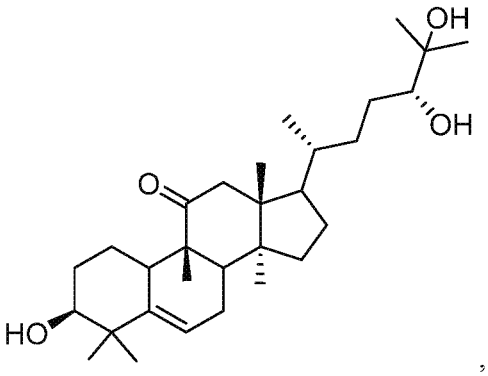
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

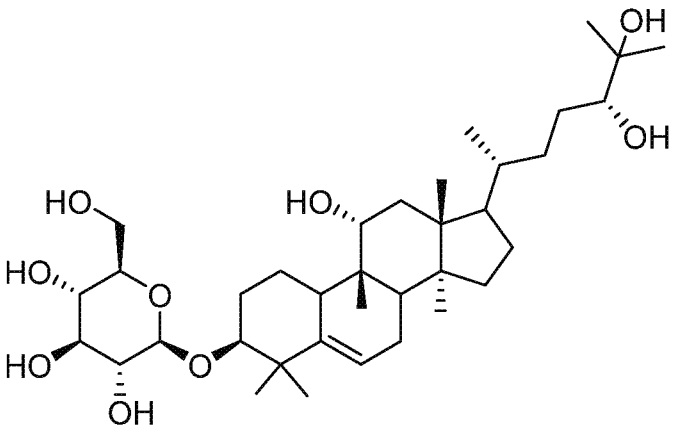
with the proviso that formula (I) is not selected from:



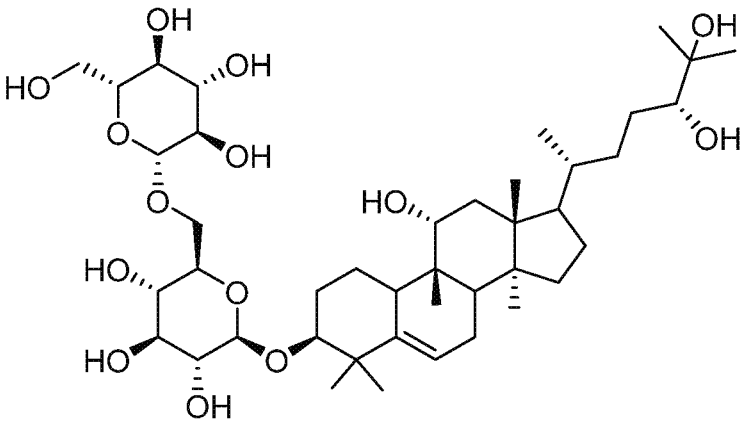
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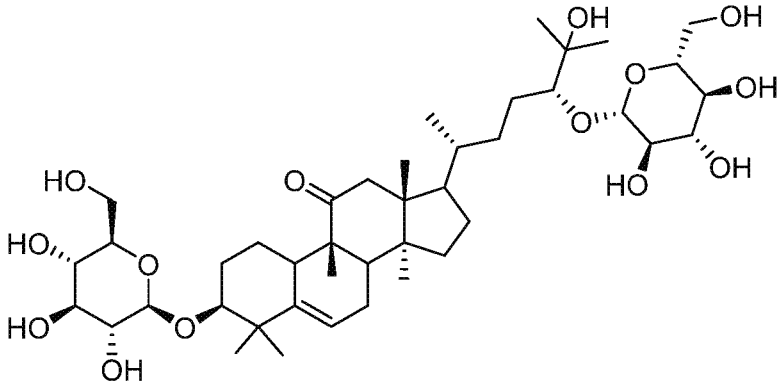
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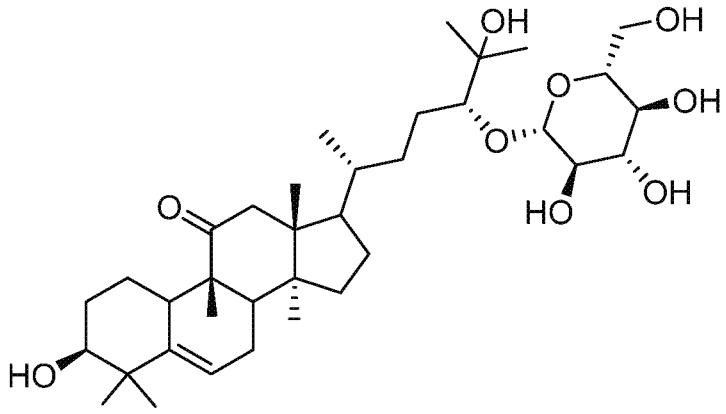
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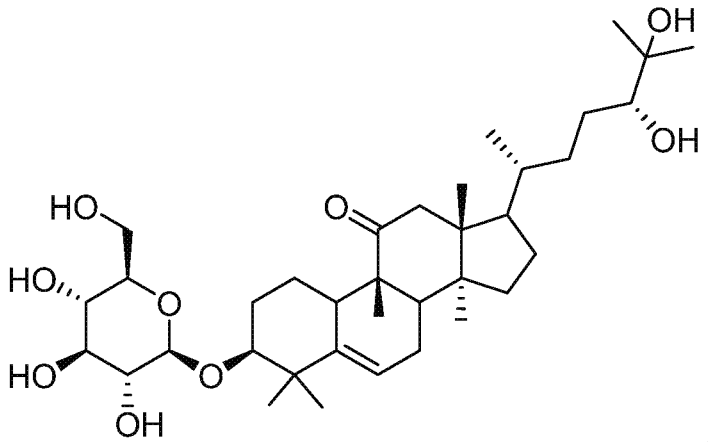
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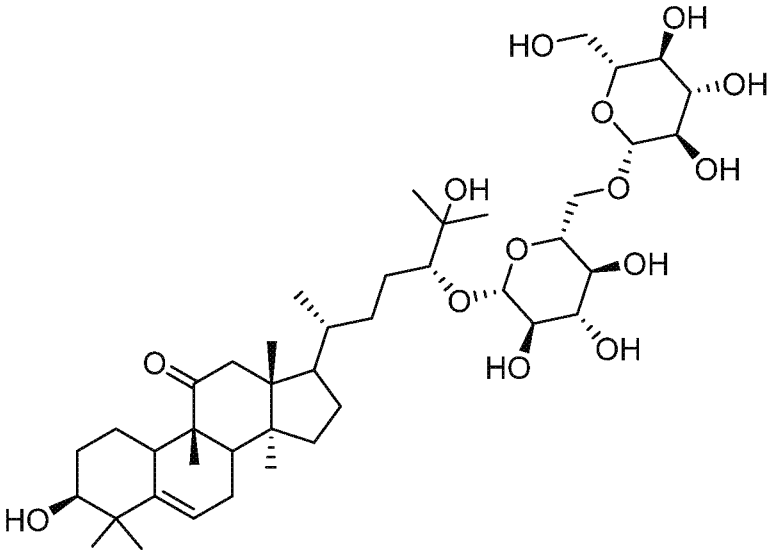
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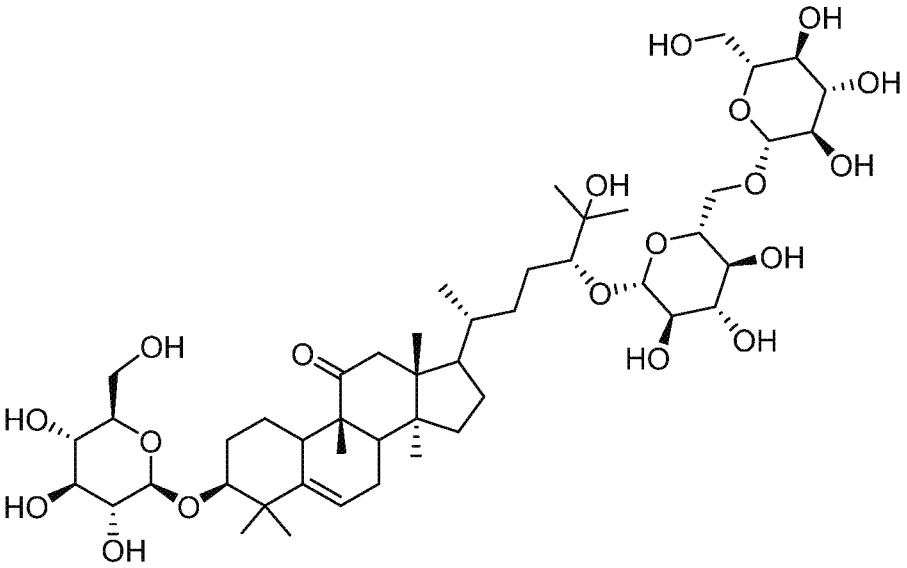
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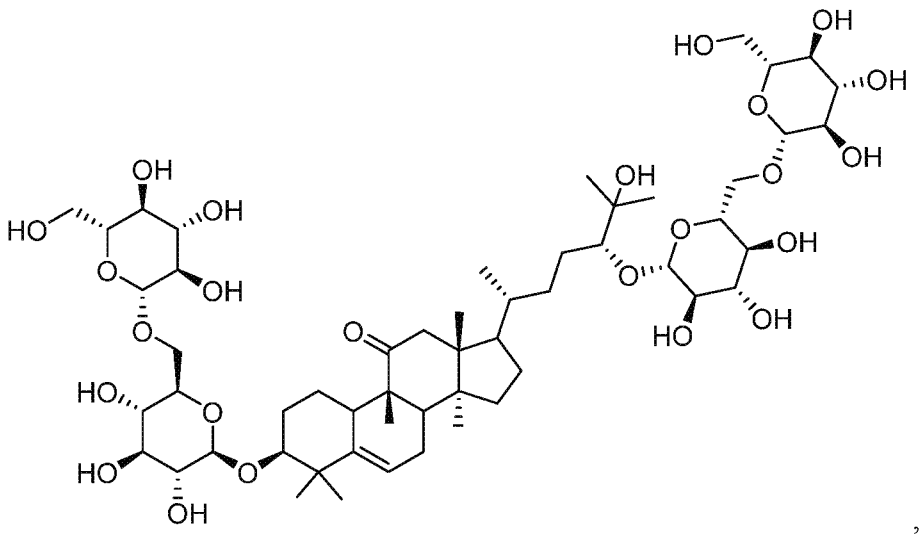
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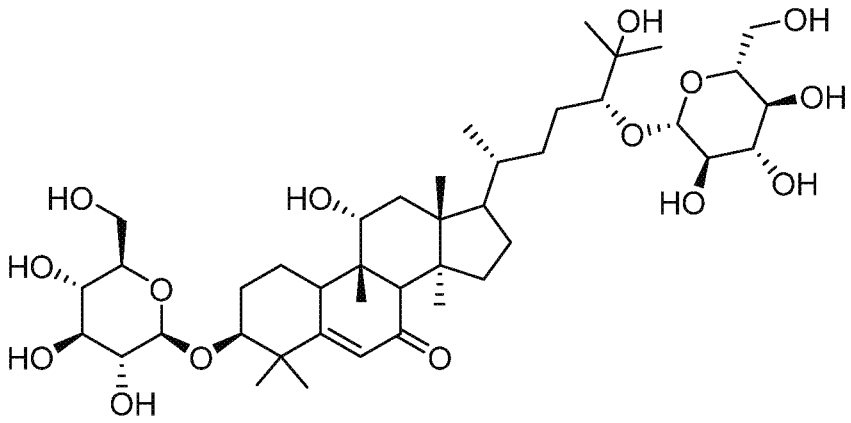
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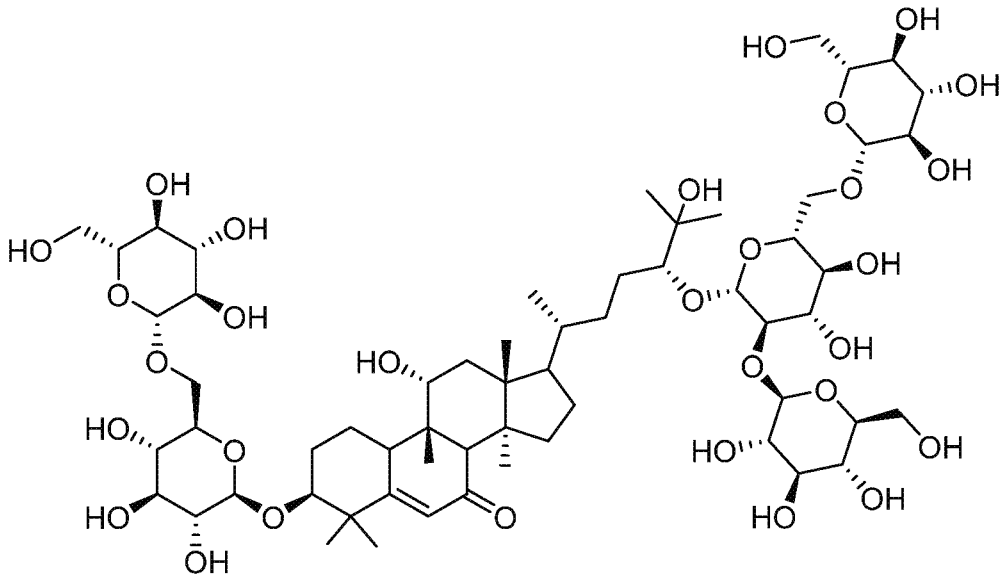
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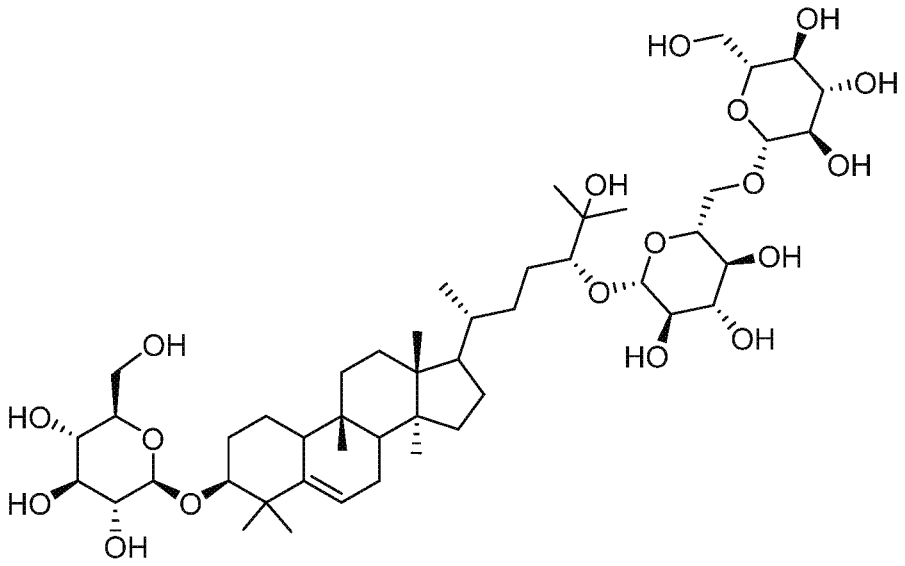
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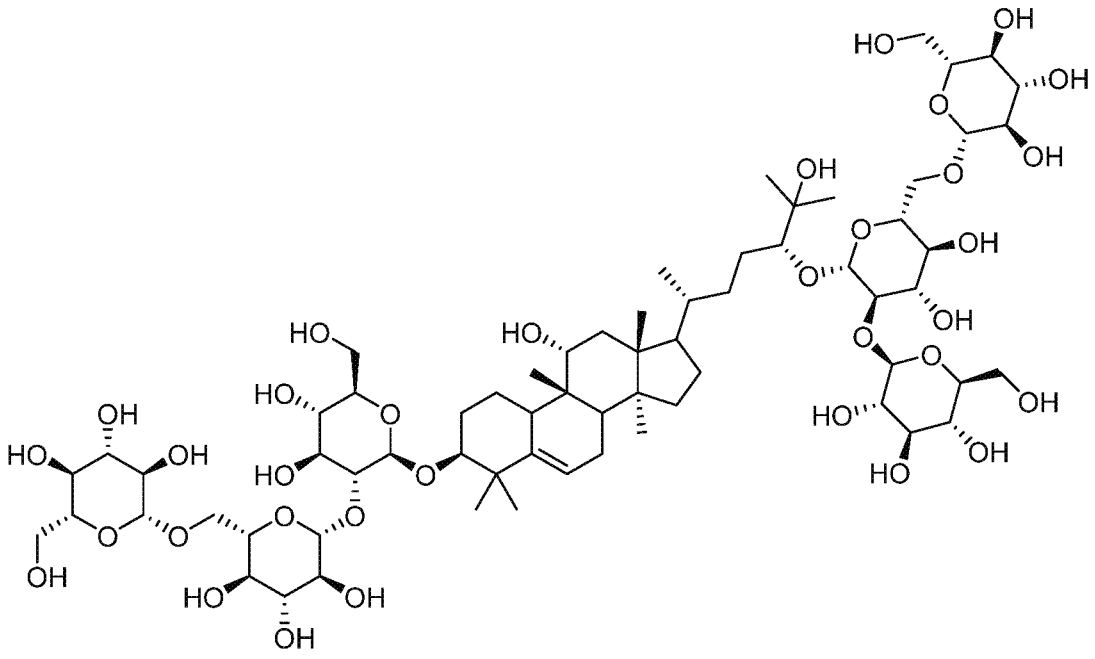
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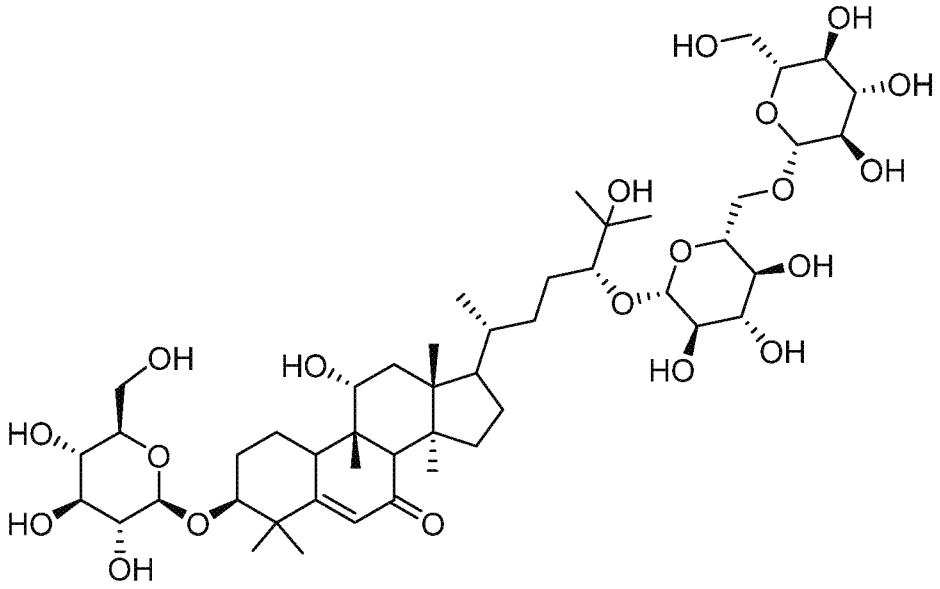
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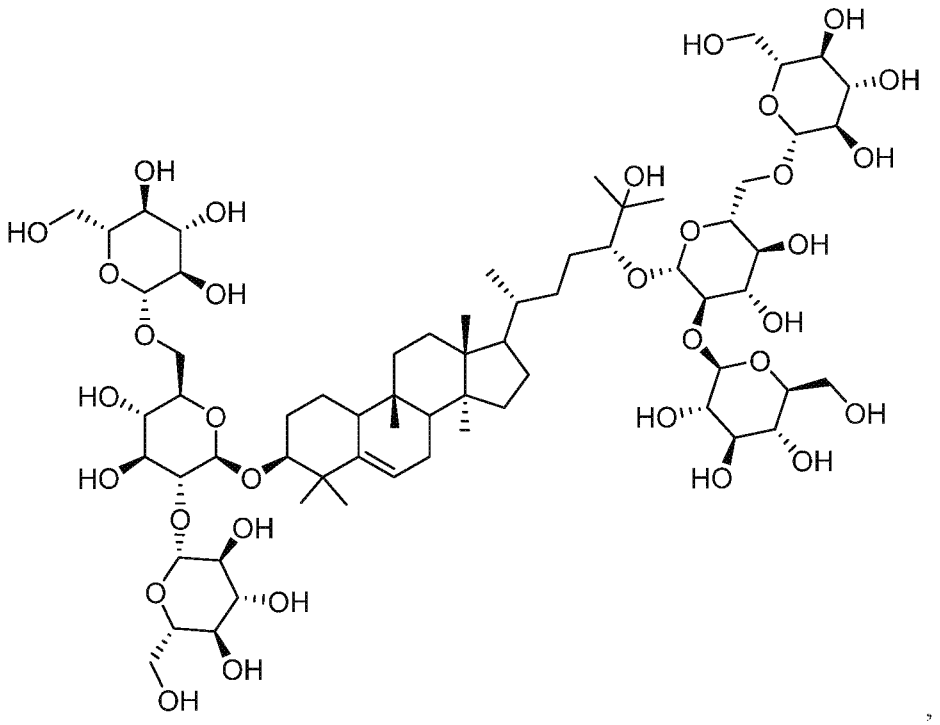


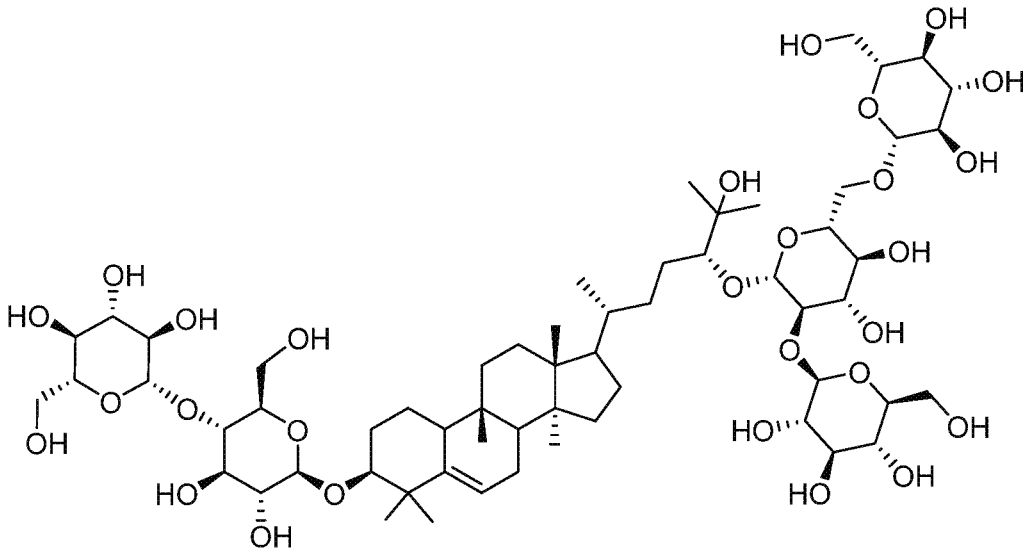
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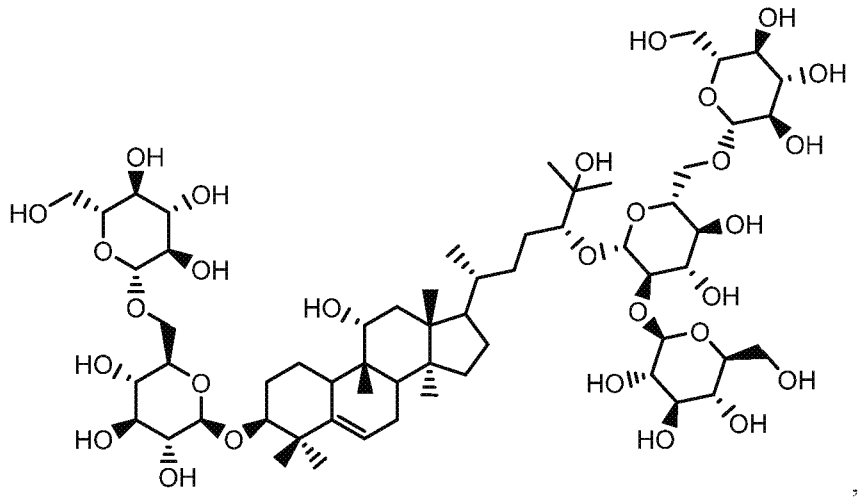


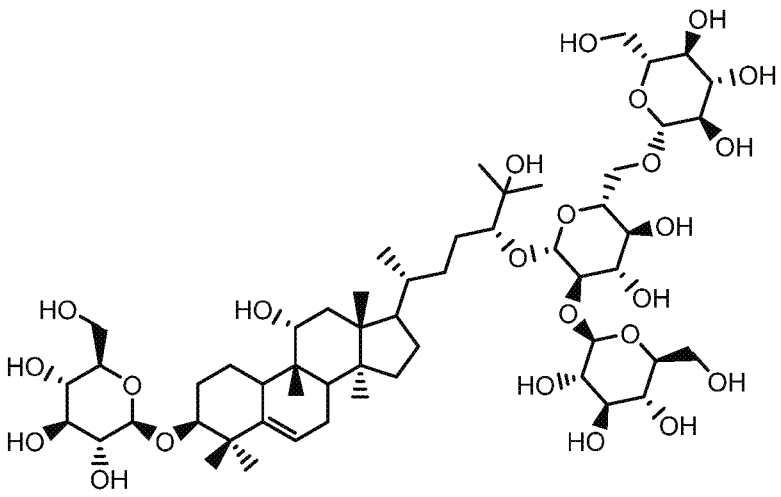
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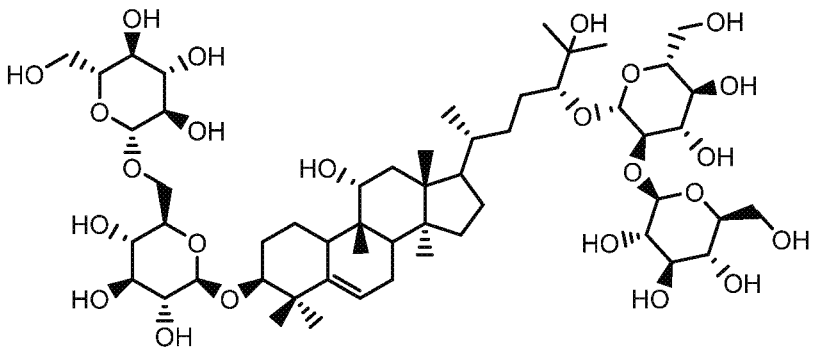




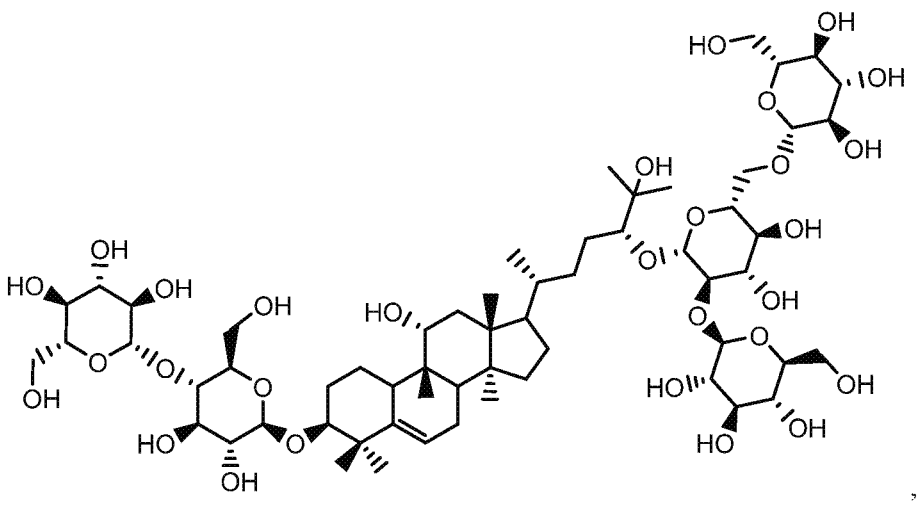




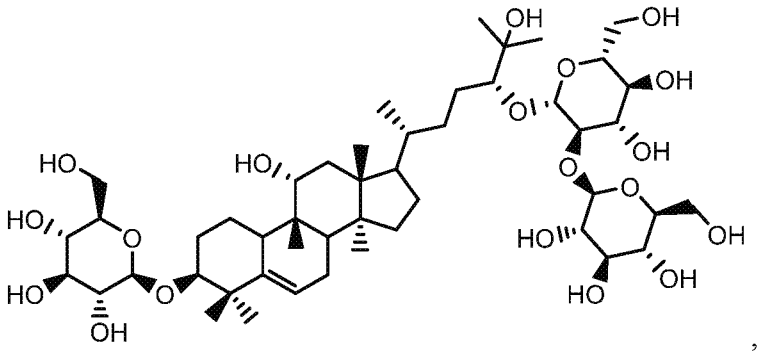




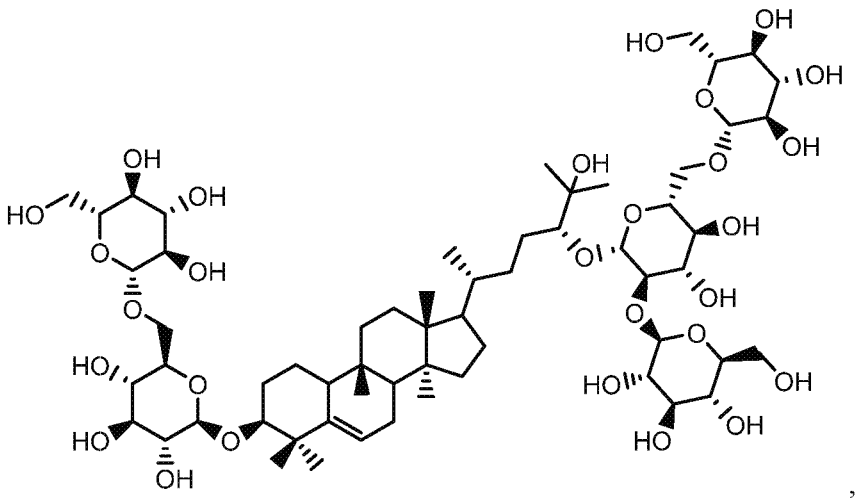
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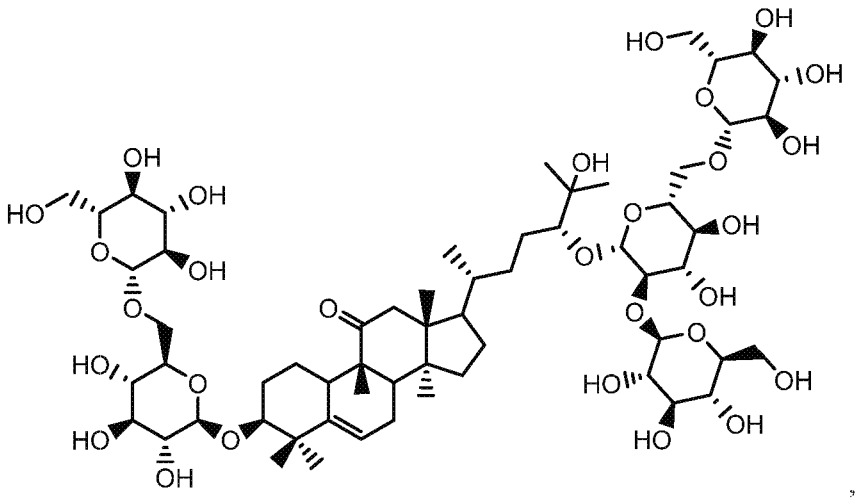
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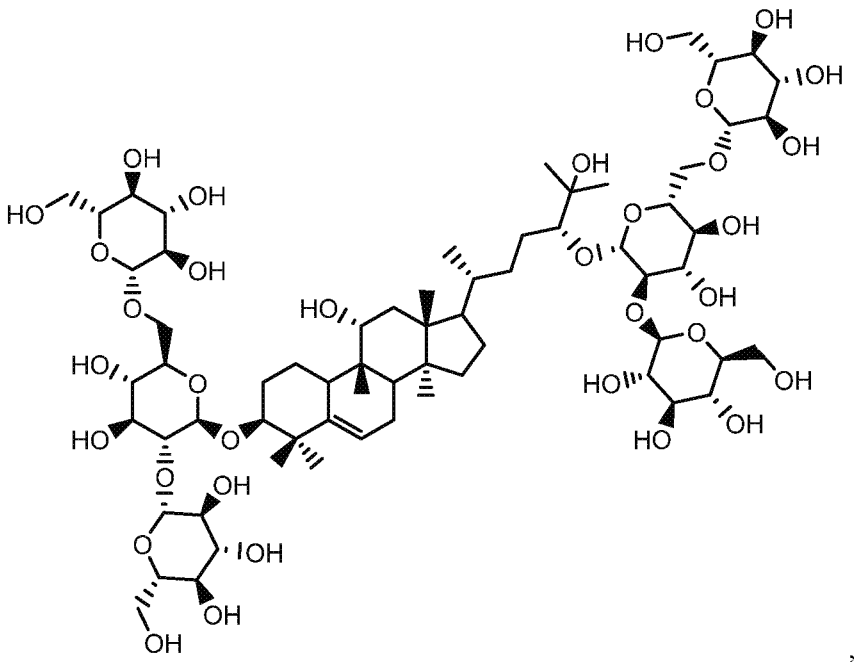
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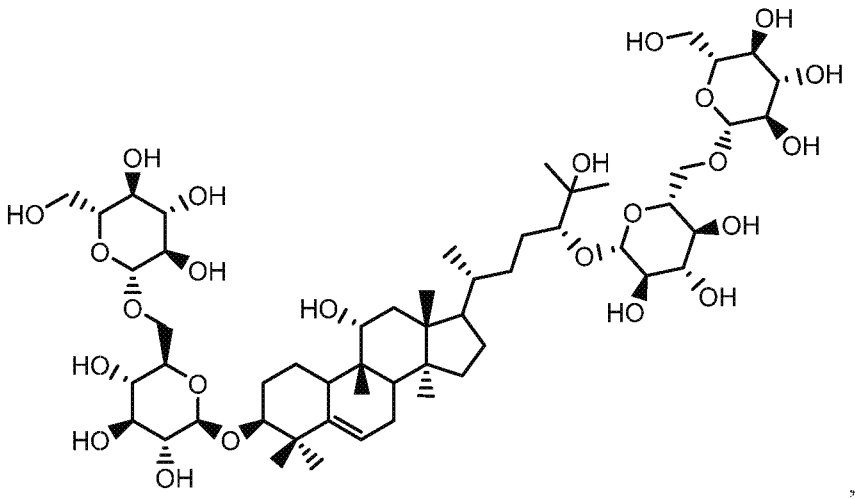


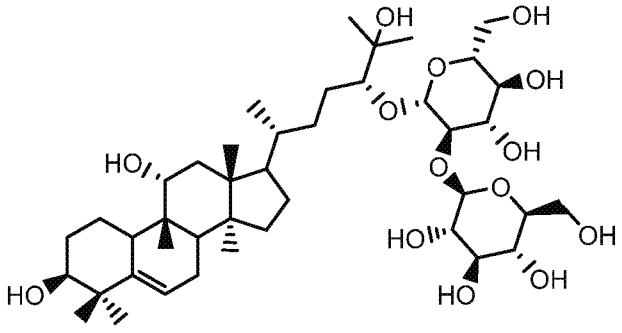
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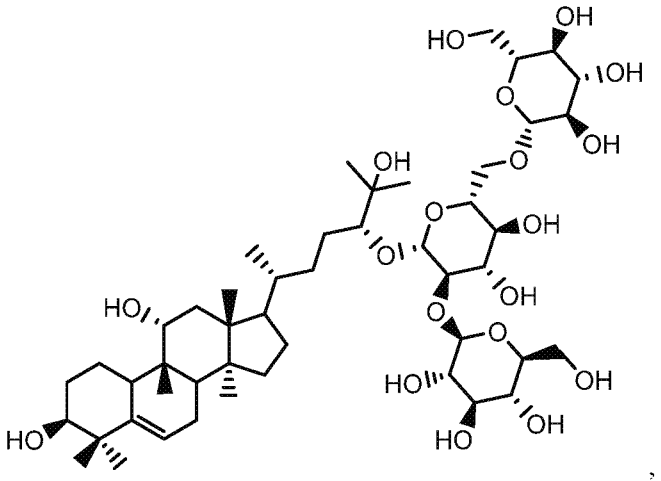


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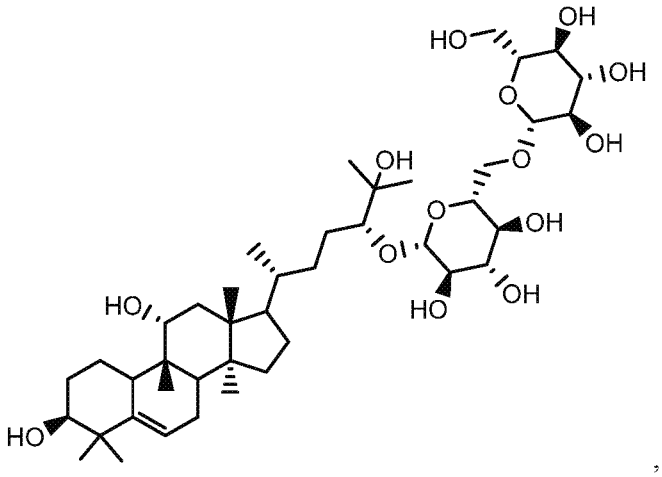




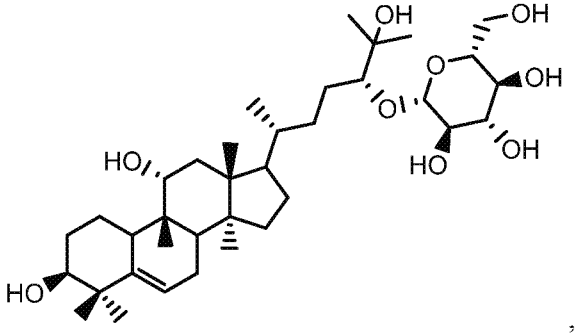




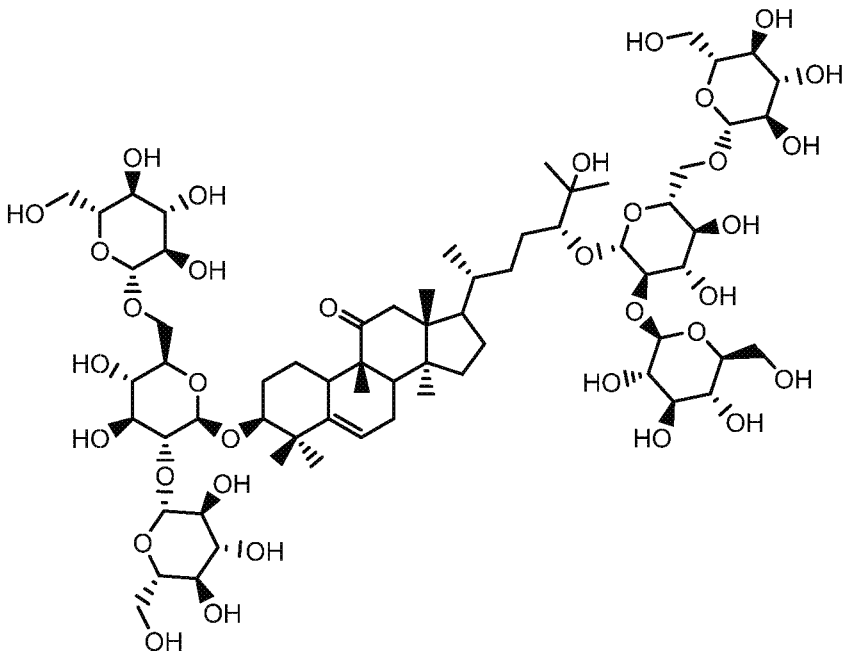
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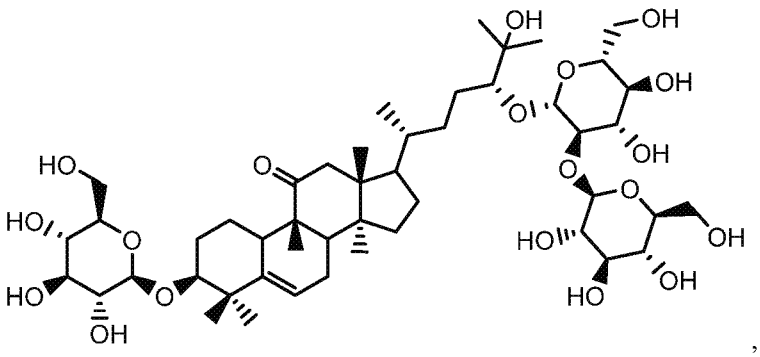
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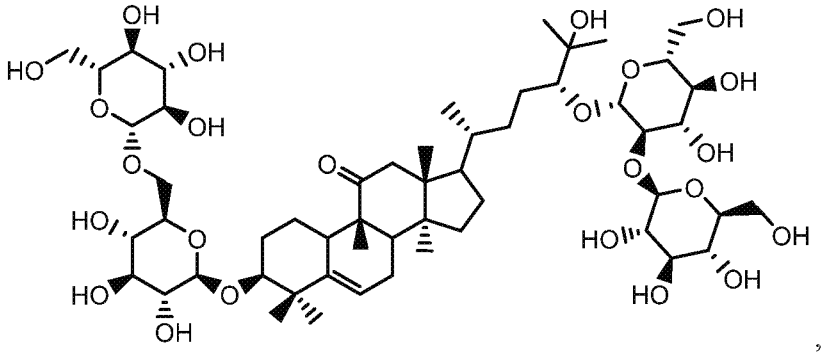
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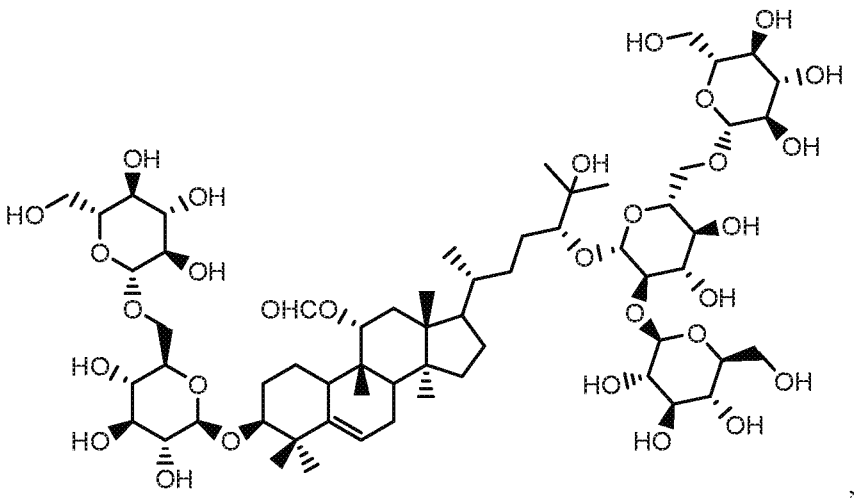
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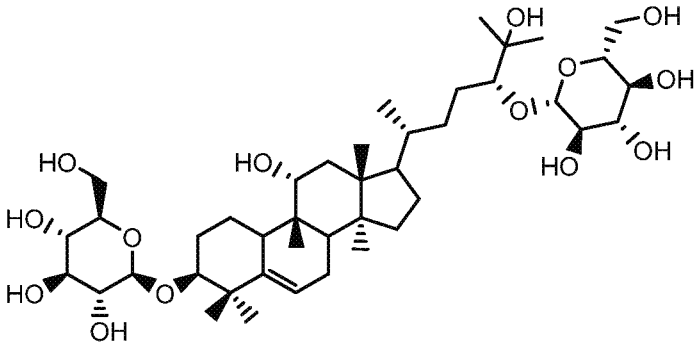
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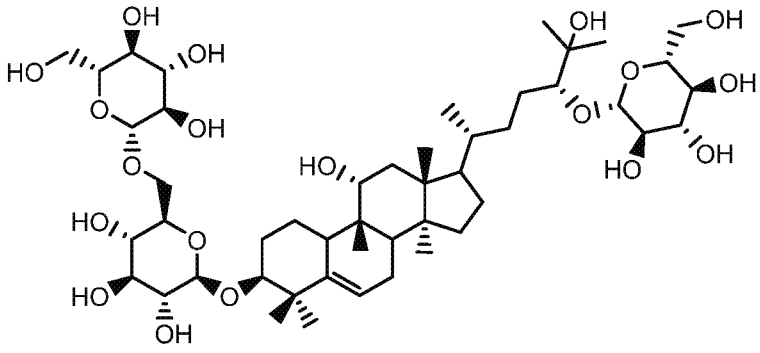
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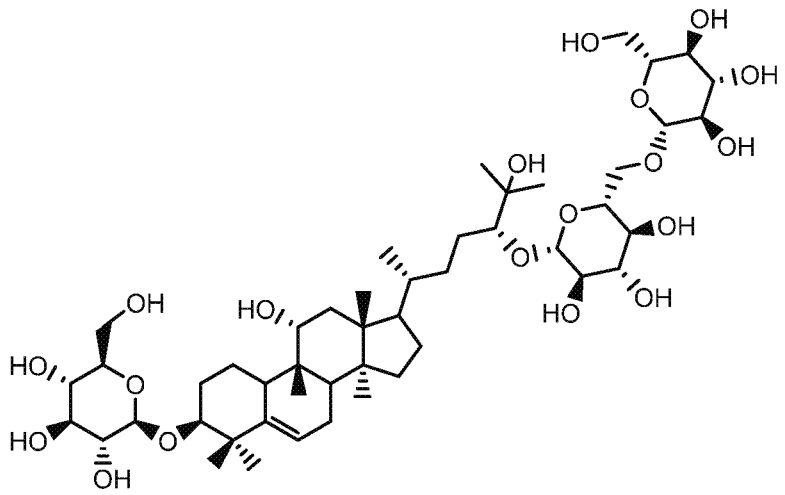
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, and



131. A method of increasing the sweetness of a food or beverage product, comprising adding the composition of any one of claims 3-94 to the food or beverage product, thereby increasing the sweetness of the food or beverage product.

132. A method of preparing a food or beverage product, comprising combining the composition of any one of claims 3-94 with one or more ingestibly acceptable ingredients.

133. A method of preparing a food or beverage product, comprising:

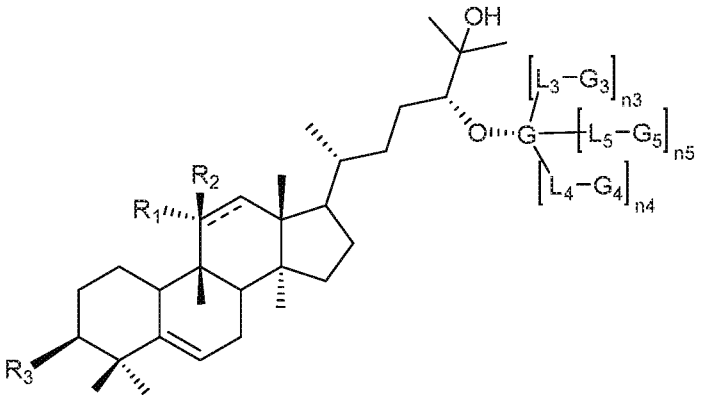
combining a first plurality of ingestibly acceptable ingredients to form an intermediate mixture; and

dispensing a dose of the composition according to any one of claims 3-94 into the intermediate mixture.

134. The method of claim 133, further comprising, after dispensing the dose of the composition, adding one or more additional ingestibly acceptable ingredients.

135. The method of claim 133, further comprising mixing the ingestibly acceptable ingredients and the composition.

136. A flavoring concentrate, comprising a flavoring agent and a compound having the structure of formula (I):

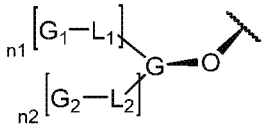


(I)

or a salt thereof, wherein:

------ represents a carbon-carbon single bond or a carbon-carbon double bond;

R_1 is absent or a hydroxy group and R_2 is hydrogen, or R_1 and R_2, together with the carbon atom to which they are attached, form an oxo group;

R_3 is selected from –OH and 

;

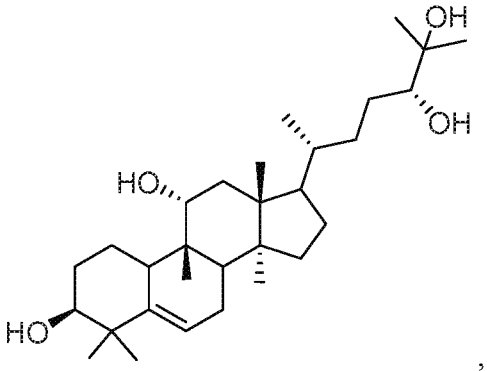
each of n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 3;

each G, G_1, G_2, G_3, G_4, and G_5 is independently a furanose or pyranose moiety;

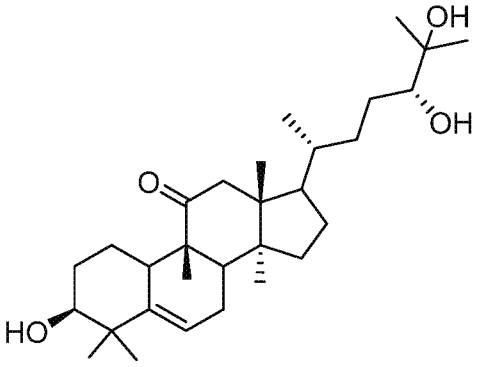
each L_1, L_2, L_3, L_4, and L_5 is independently a glycosidic bond; and

when ------ is a carbon-carbon double bond, R_1 is absent;

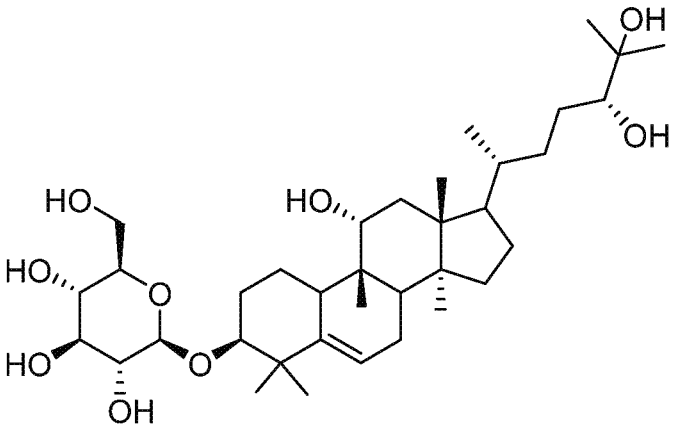
with the proviso that formula (I) is not selected from:


OH
OH
HO
HO

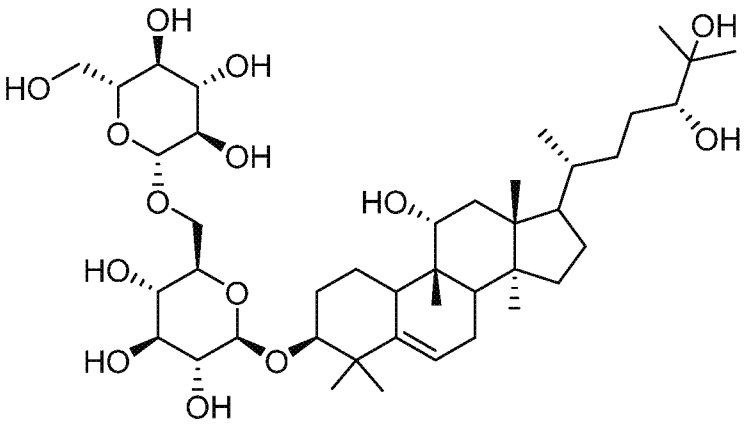
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OH
OH
O
HO

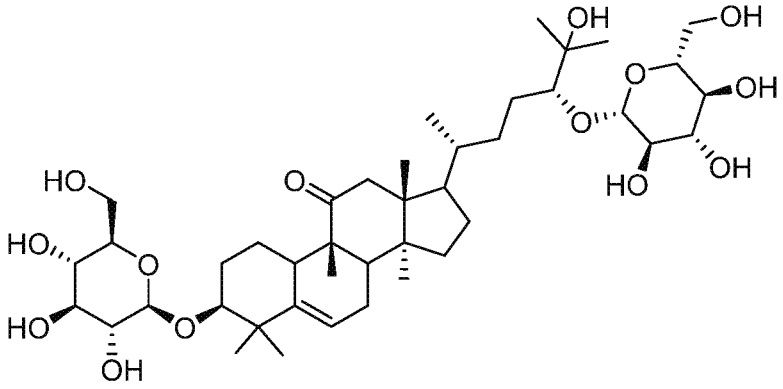
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OH
OH
HO
HO
HO
O
HO
O
OH

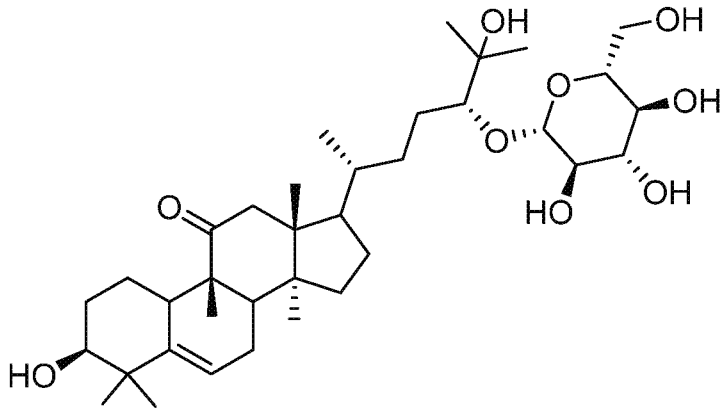
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OH
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OH

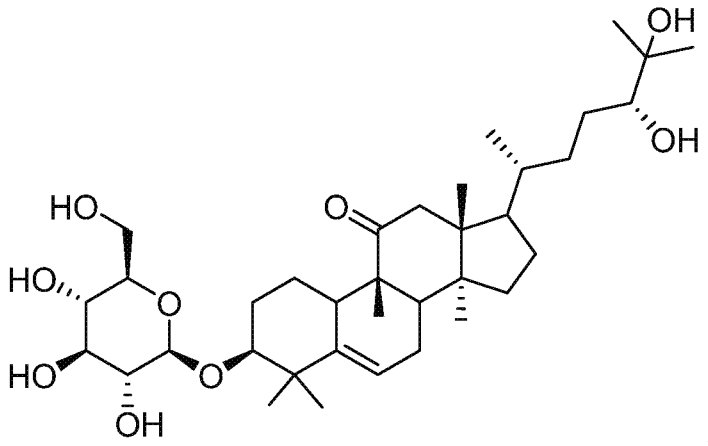
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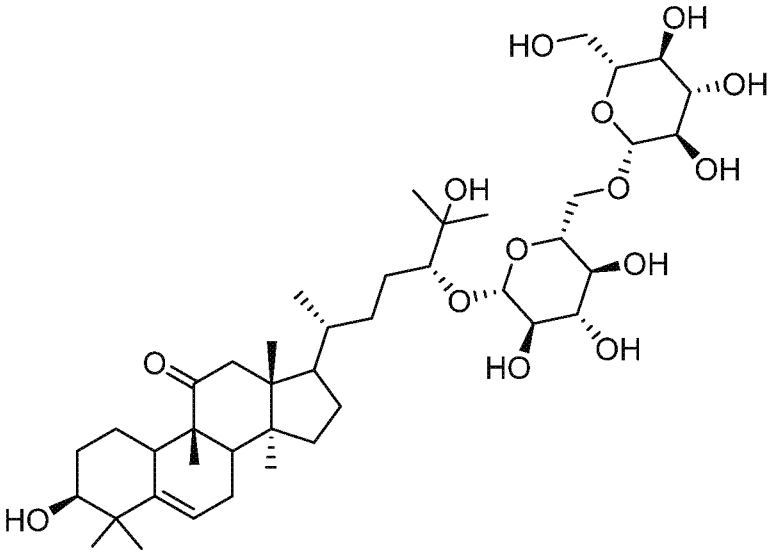
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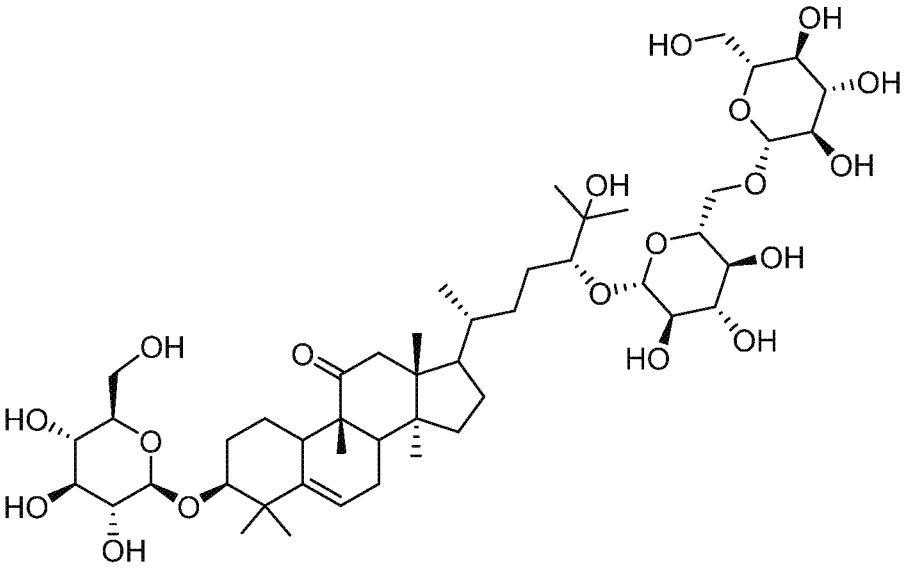
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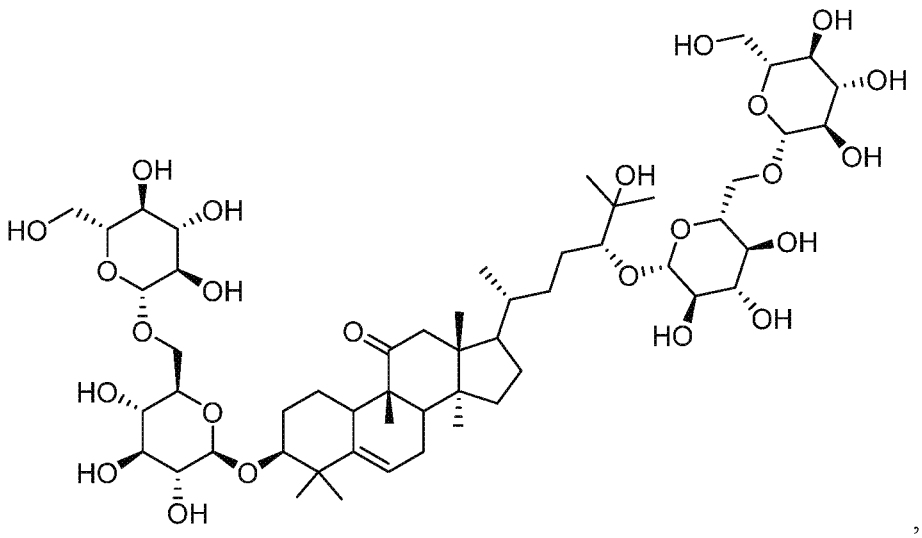
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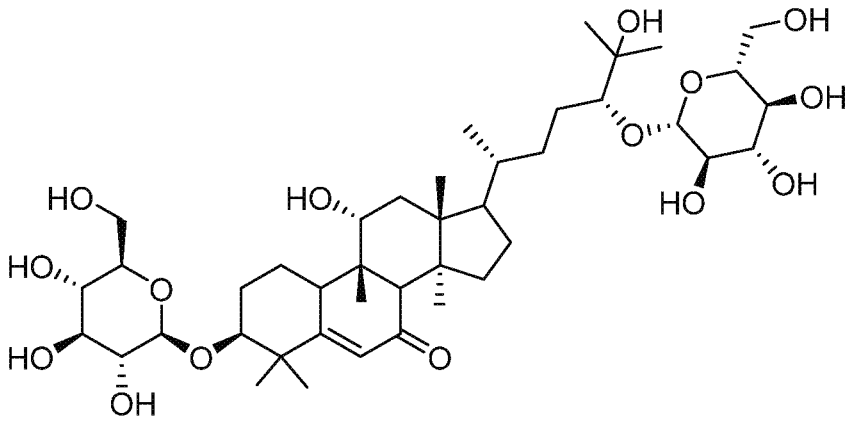
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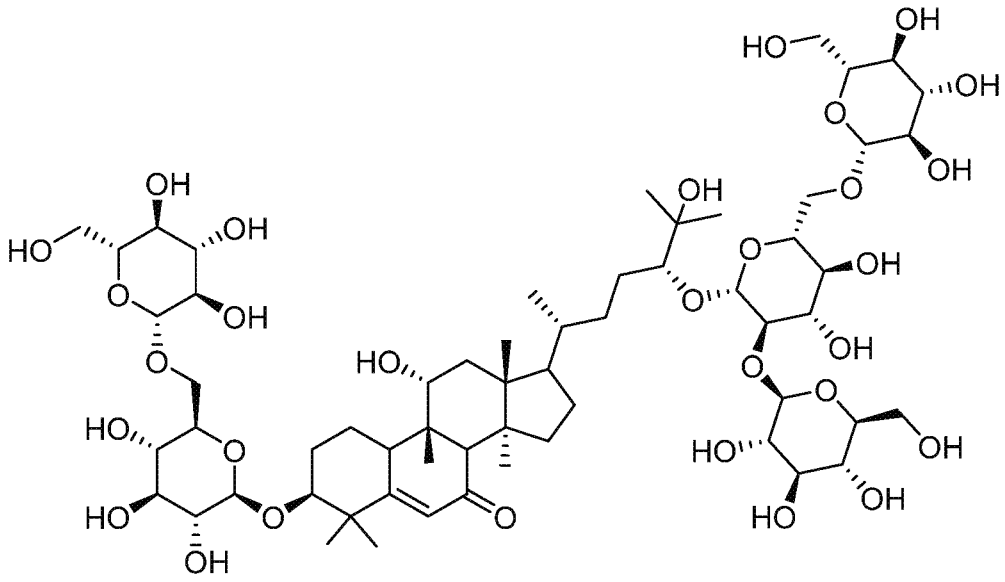
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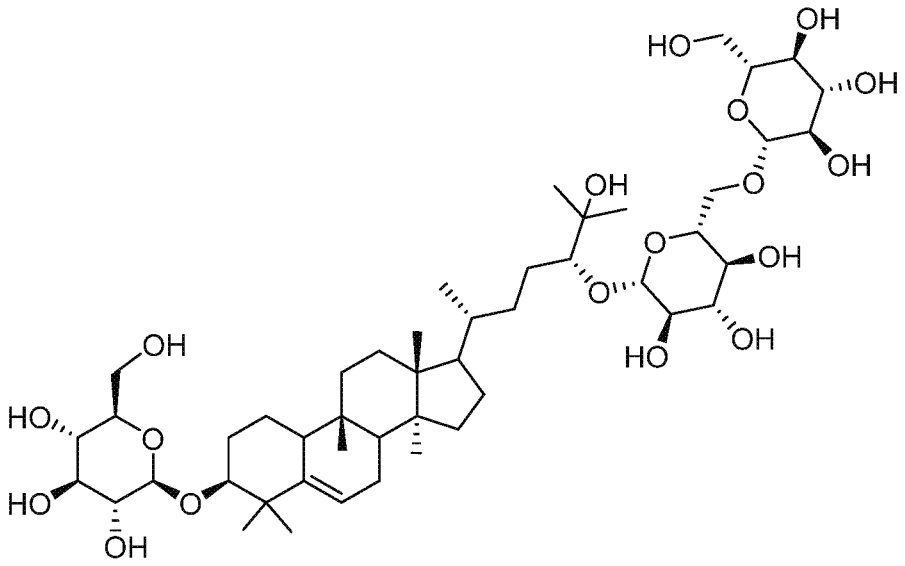
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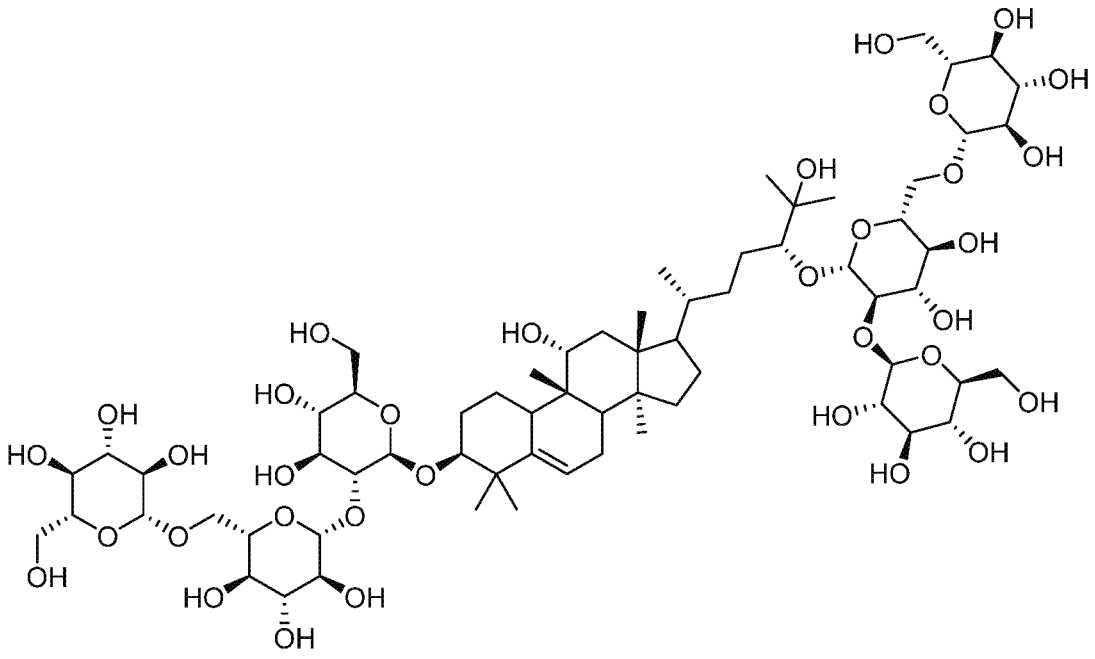
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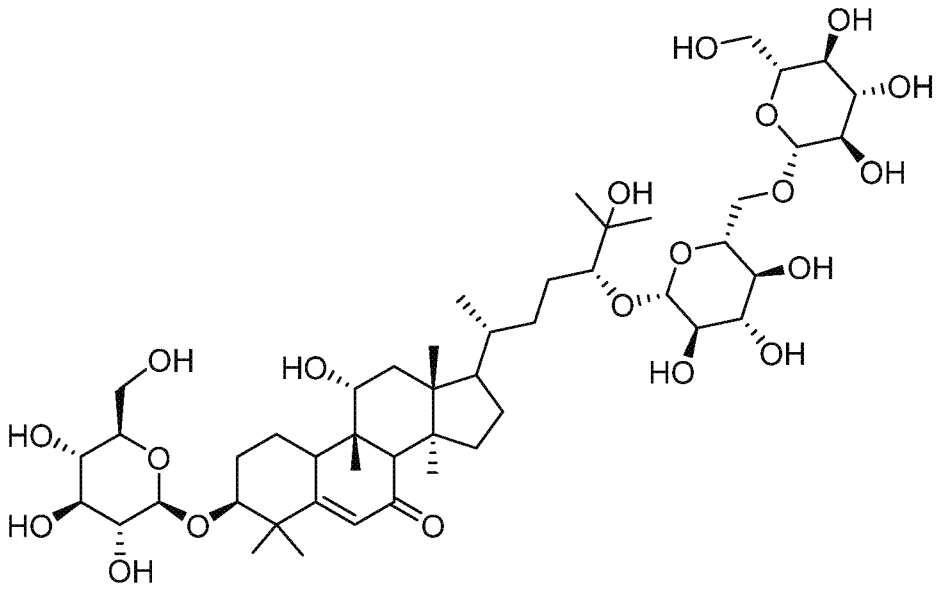
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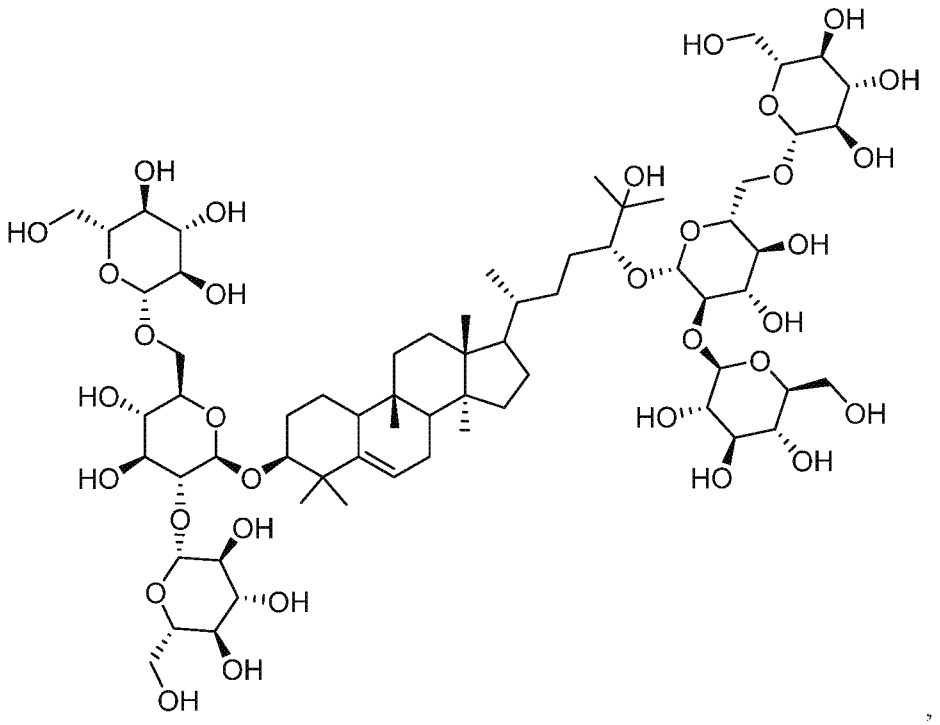


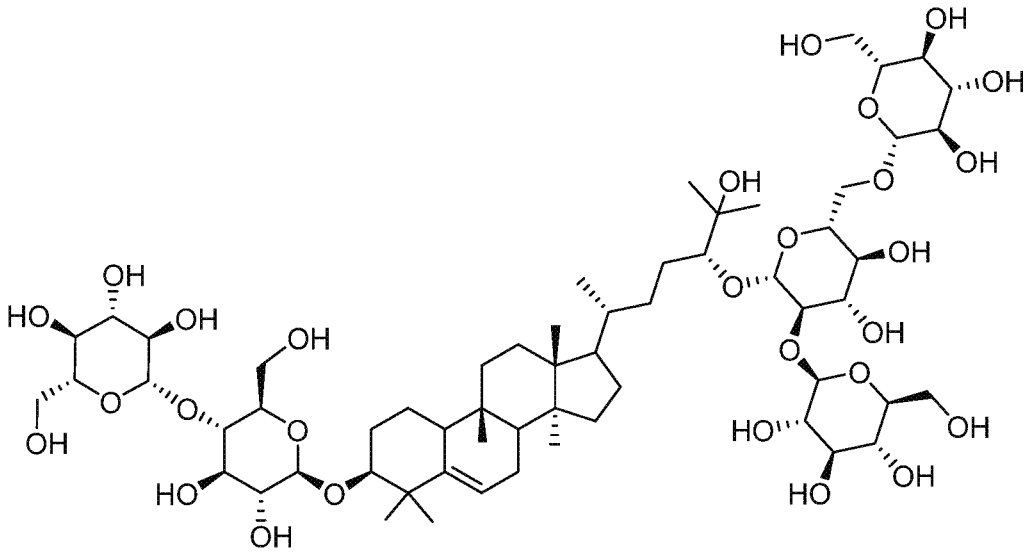
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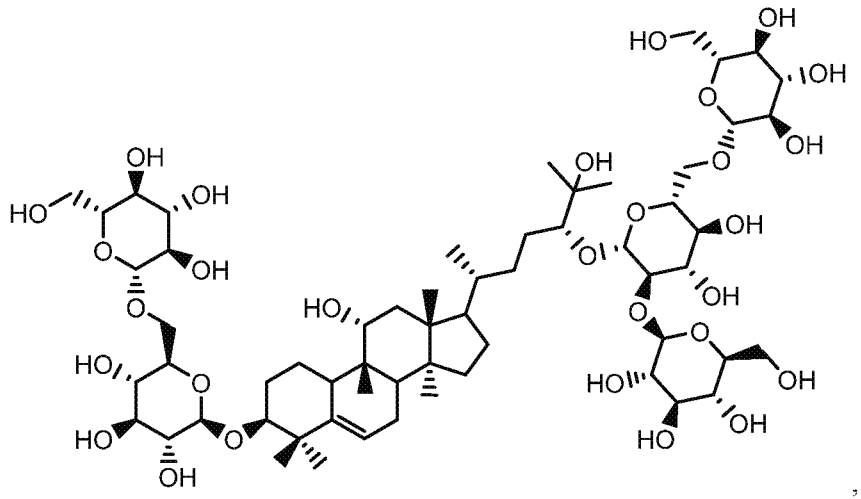


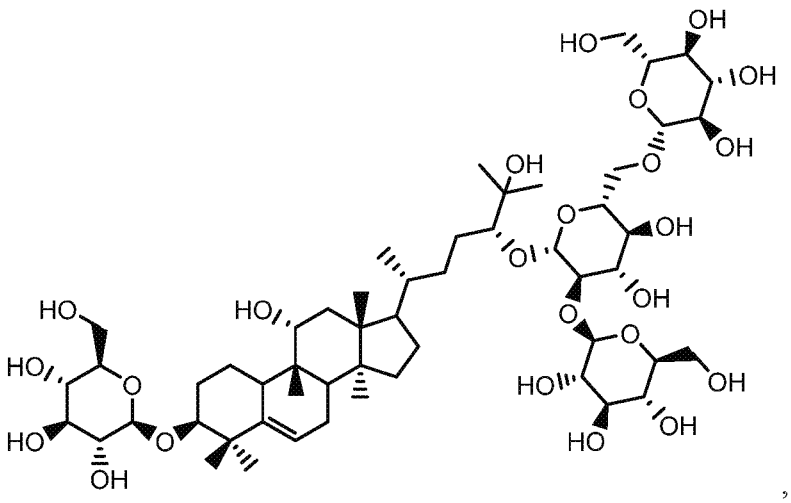
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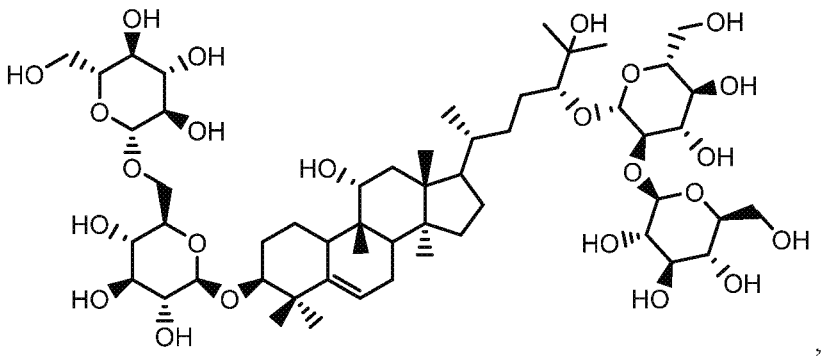




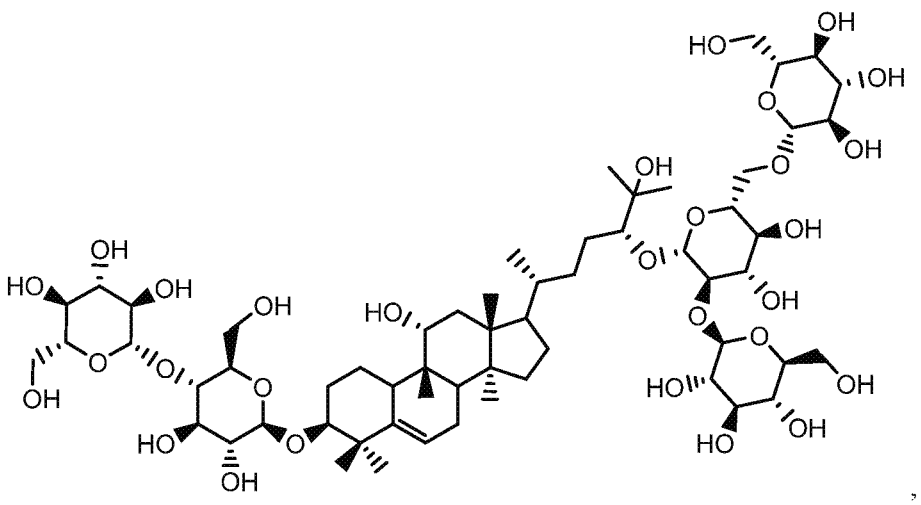




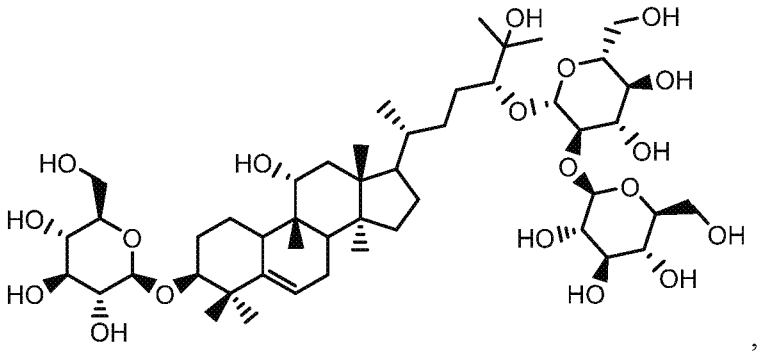




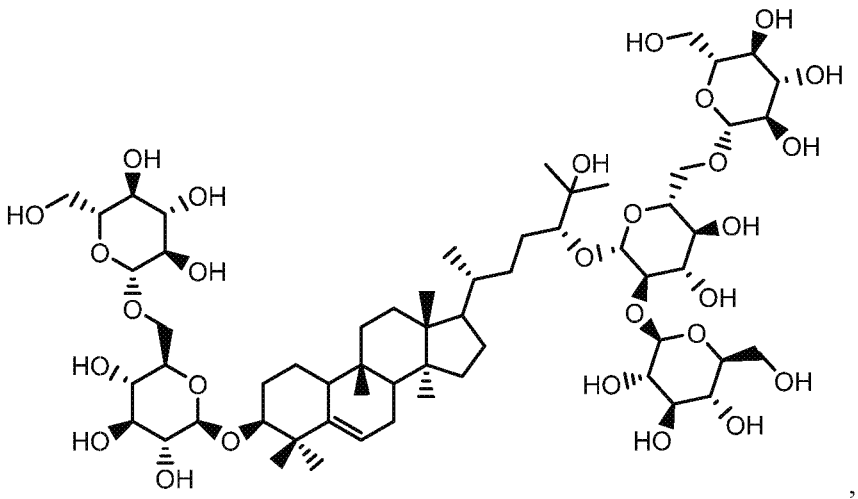
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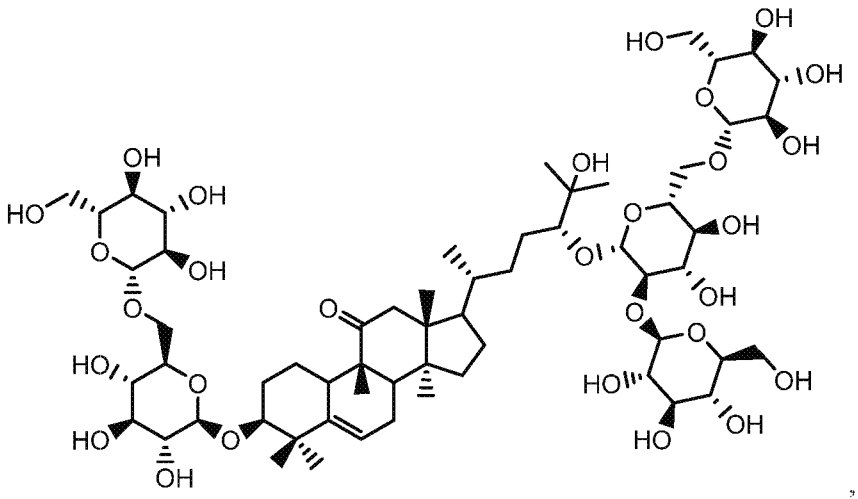
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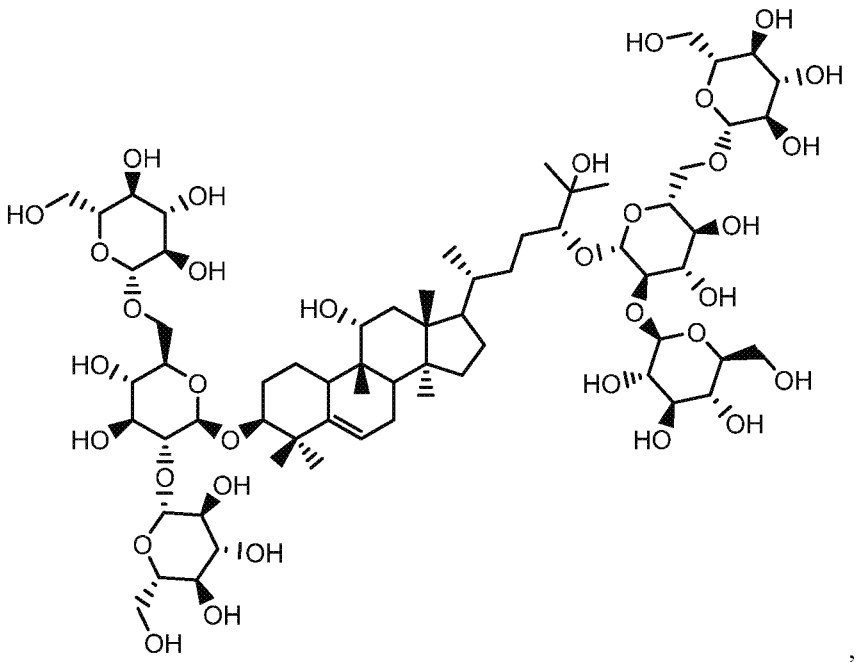
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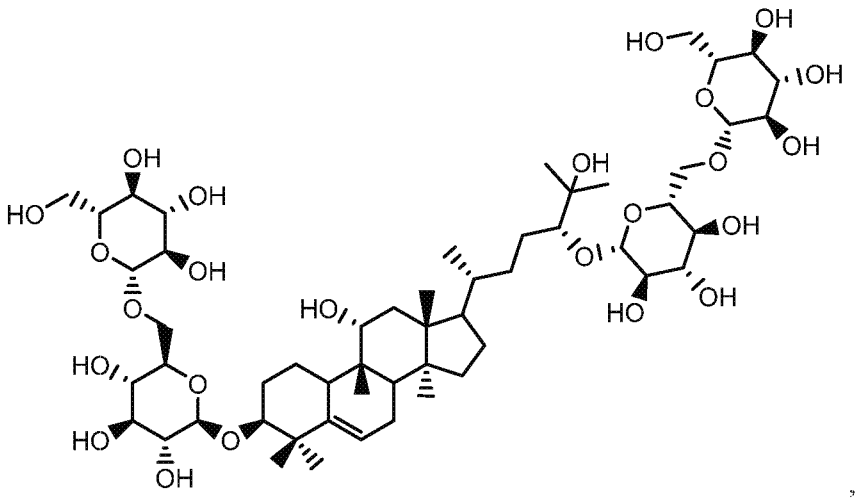


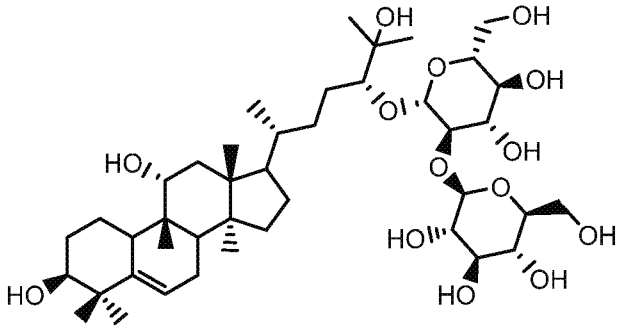
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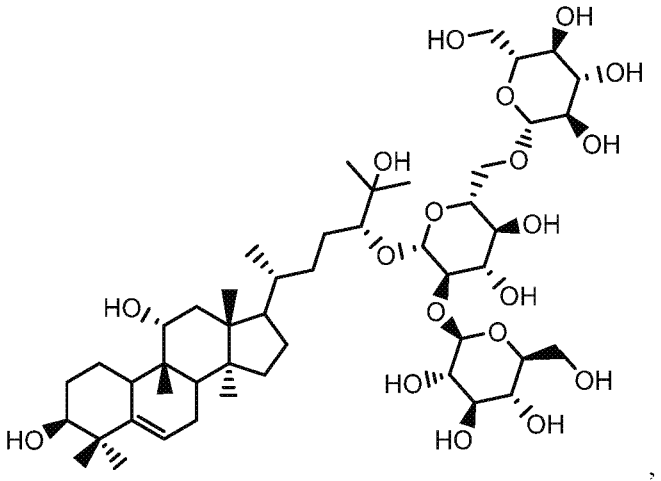


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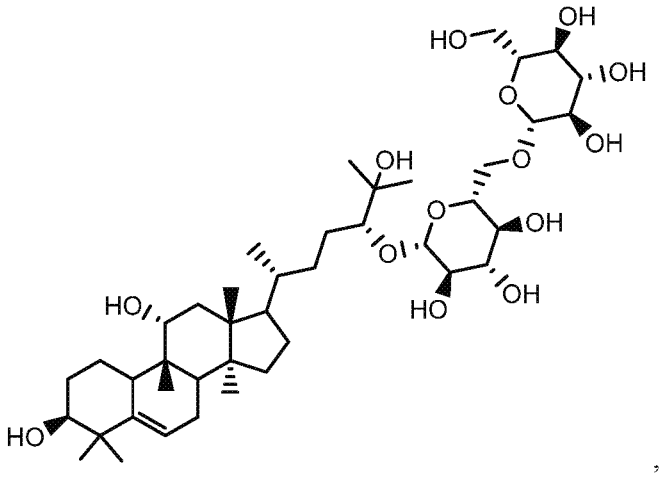




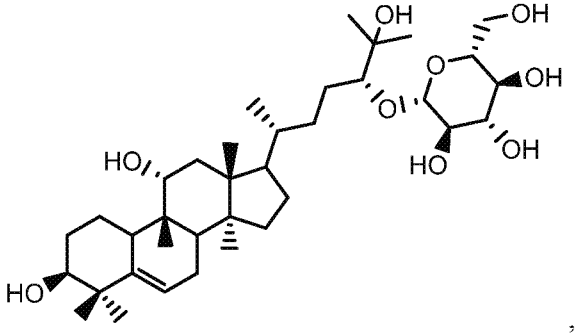




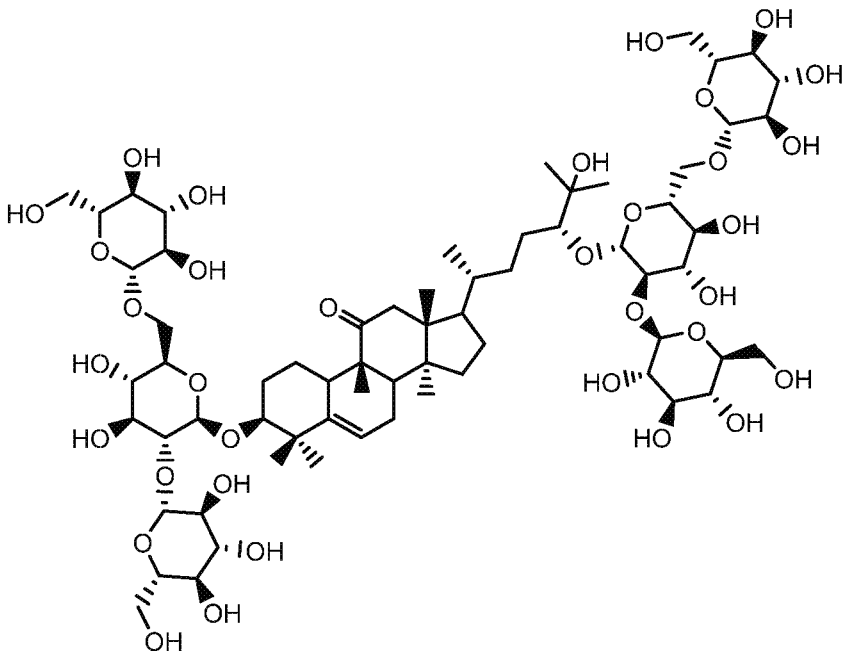
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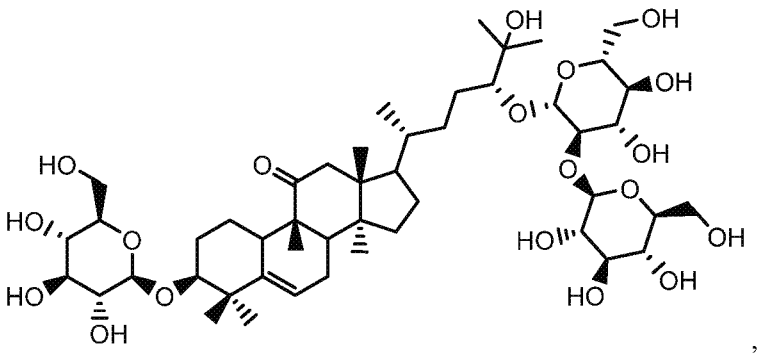
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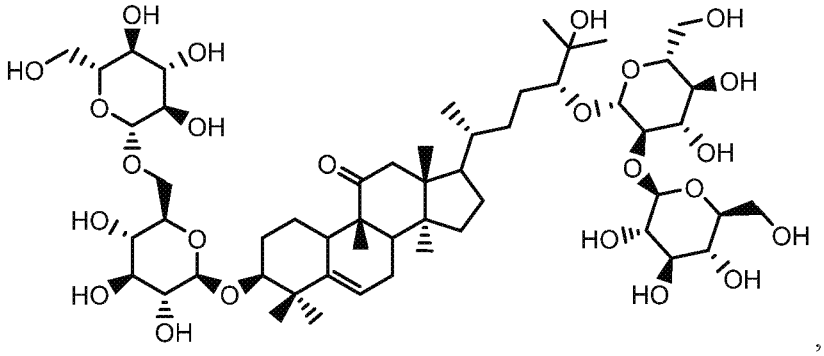
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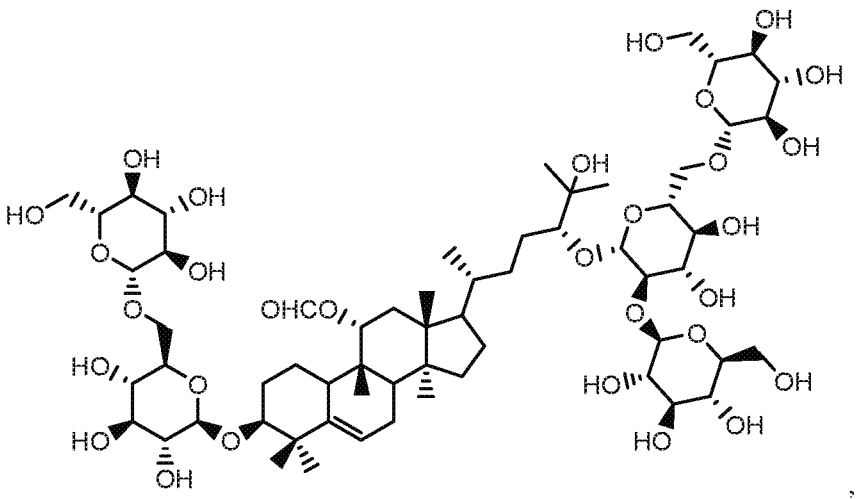
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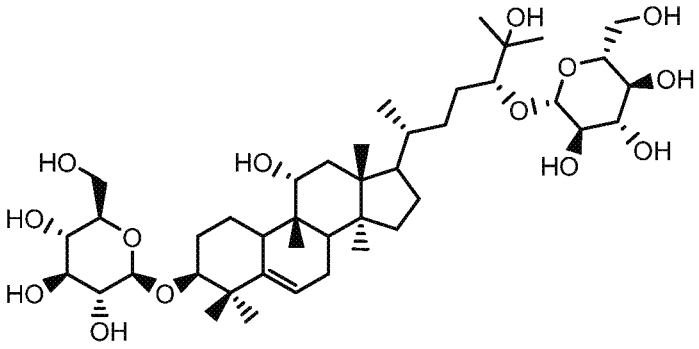
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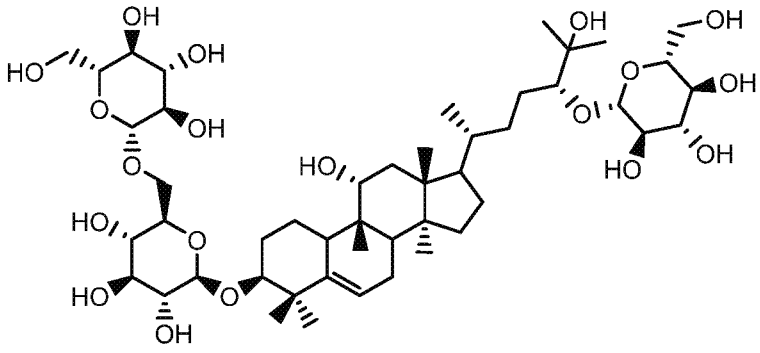
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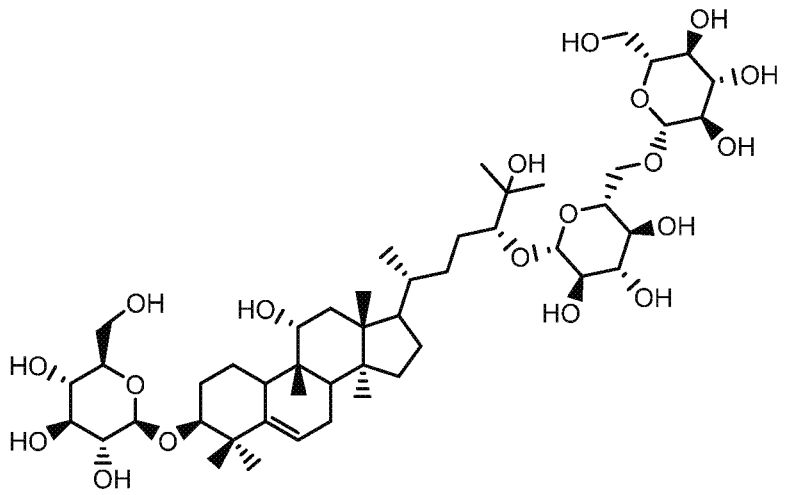
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, and



137. The concentrate of claim 136, wherein the flavoring agent is an artificial flavoring ingredient.

138. The concentrate of claim 136, wherein the flavoring agent is a natural flavoring ingredient.

139. The concentrate of any one of claims 136-138, wherein the compound is at a concentration greater than 0.1%.

140. The concentrate of any one of claims 136-138, wherein the compound is at a concentration greater than 0.5%.

141. The concentrate of any one of claims 136-138, wherein the compound is at a concentration greater than 1%.

142. The concentrate of any one of claims 136-142, wherein the concentrate is a liquid.

143. The concentrate of claim 142, wherein the concentrate is a solution.

144. The concentrate of any one of claims 136-138, wherein the concentrate is a solid.

145. The concentrate of any one of claims 136-143, wherein the compound is present in a concentration that is at least 2 times a concentration of the compound in a ready-to-use food or beverage product.

146. A method of preparing a food or beverage product, comprising combining the concentrate of any one of claims 136-145 with a diluent.

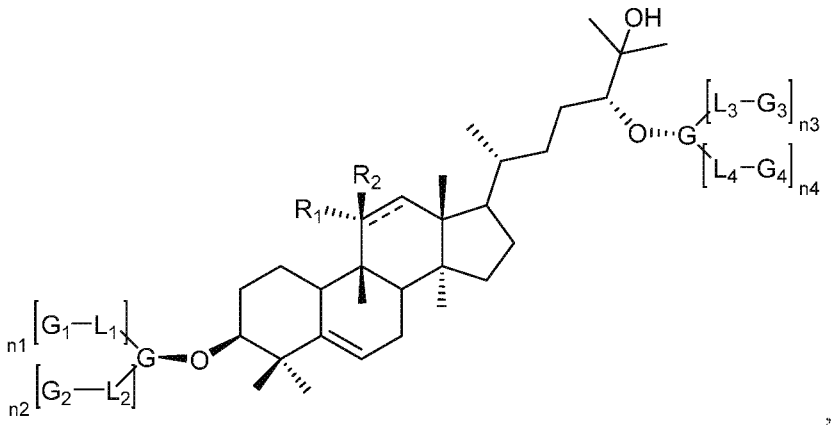
147. The method of claim 146, wherein the diluent is water.

148. The method of claim 146, wherein the diluent is carbonated water.

149. The method of claim 146, wherein the diluent is nitrogen infused water.

150. The method of any one claims 146-149, wherein the food or beverage product is selected from colas, lemon-lime flavored sparkling beverages, orange flavored sparkling beverages, grape flavored sparkling beverages, strawberry flavored sparkling beverages, pineapple flavored sparkling beverages, ginger-ales, root beers, fruit juices, fruit-flavored juices, juice drinks, nectars, vegetable juices, vegetable-flavored juices, sports drinks, energy drinks, enhanced water drinks, enhanced water with vitamins, near water drinks, coconut waters, tea type drinks, coffees, cocoa drinks, beverages containing milk components, beverages containing cereal extracts and smoothies.

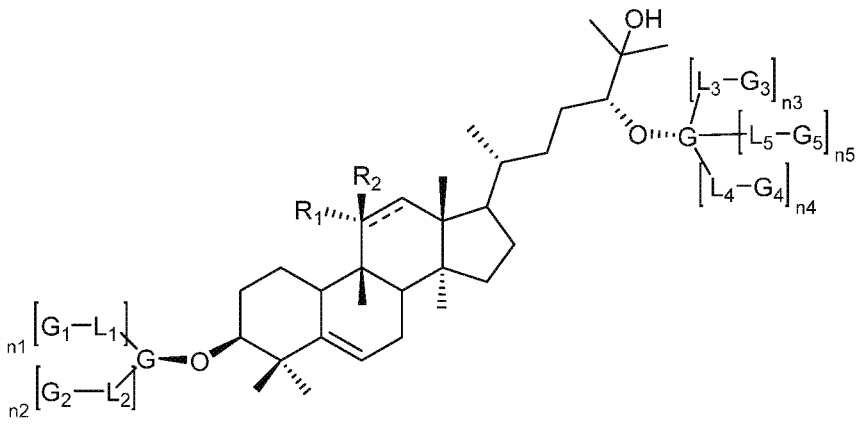
151. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure of formula (Ia):



, or a salt thereof.

(Ia)

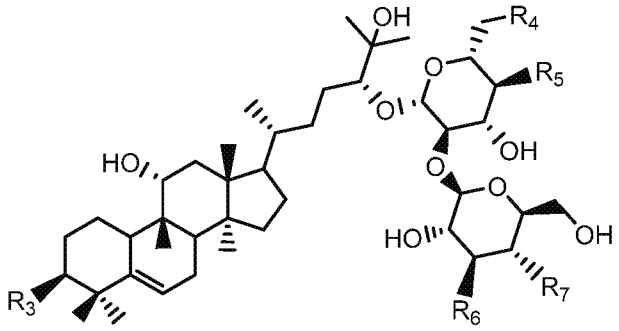
152. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure of formula (Ib):



, or a salt thereof.

(Ib)

153. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure of formula (Ic):



(Ic)

, or a salt thereof, wherein:

R_4 is selected from -OH and $-(L_3\text{-}G_3)_{n3}$;

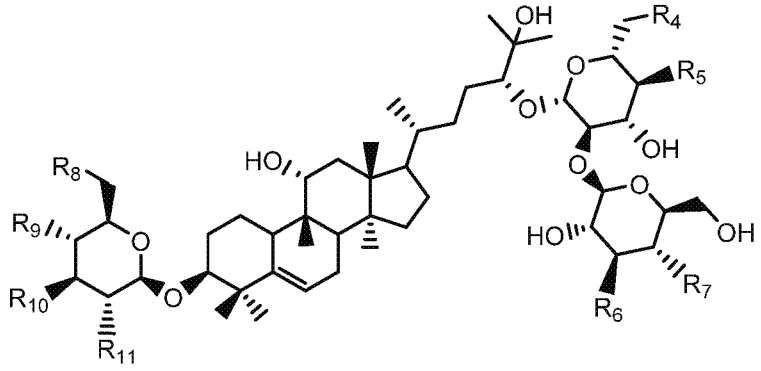
R_5 is selected from –OH and $-(L_5\text{-}G_5)_{n5}$;

R_6 and R_7 are independently selected from –OH and $-L_6\text{-}G_6$, provided that R_6 and R_7 are not both $-L_6\text{-}G_6$;

G_6 is a furanose or pyranose moiety; and

L_6 is a glycosidic bond.

154. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure of formula (Id):



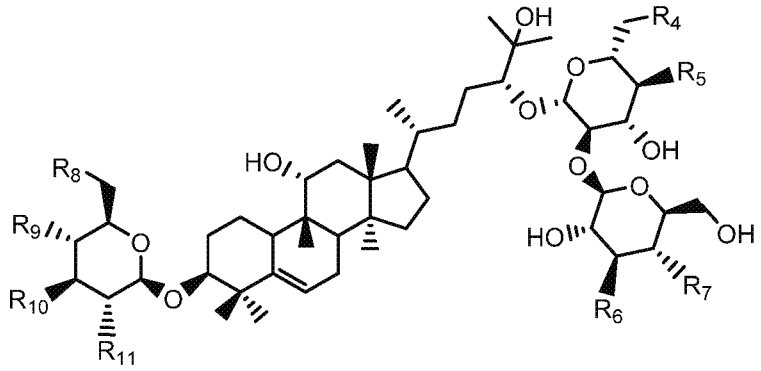
(Id)

, or a salt thereof, wherein:

R_8 and R_9 are independently selected from –OH and $–L_1$-G_1, provided that R_8 and R_9 are not both $–L_1$-G_1; and

R_{10} and R_{11} are independently selected from –OH and $–L_2$-G_2, provided that R_{10} and R_{11} are not both $–L_2$-G_2.

155. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure of formula (Id):



(Id)

, or a salt thereof, wherein:

R_8 and R_{10} are independently selected from –OH and $–L_1$-G_1, provided that R_8 and R_9 are not both $–L_1$-G_1; and

R_9 and R_{11} are independently selected from –OH and $–L_2$-G_2, provided that R_{10} and R_{11} are not both $–L_2$-G_2.

156. The compound, composition, product, method, or concentrate of claim 154 or 155, wherein each of R_8, R_9, R_{10}, and R_{11} are –OH.

157. The compound, composition, product, method, or concentrate of claim 154 or 155, wherein R_8 is $-L_1$-G_1 and each of R_9, R_{10}, and R_{11} are –OH.

158. The compound, composition, product, method, or concentrate of claim 154, wherein R_9 is L_1-G_1 and each of R_8, R_{10}, and R_{11} are –OH.

159. The compound, composition, product, method, or concentrate of any one of claims 153-158, wherein R_4 is –OH.

160. The compound, composition, product, method, or concentrate of any one of claims 153-158, wherein R_4 is $-L_3$-G_3.

161. The compound, composition, product, method, or concentrate of any one of claims 153-160, wherein R_5 is –OH.

162. The compound, composition, product, method, or concentrate of any one of claims 153-160, wherein R_5 is $-L_5$-G_5.

163. The compound, composition, product, method, or concentrate of any one of claims 153-162, wherein R_6 and R_7 are –OH.

164. The compound, composition, product, method, or concentrate of any one of claims 153-162, wherein R_6 is $-L_6$-G_6 and R_7 is -OH.

165. The compound, composition, product, method, or concentrate of any one of claims 153-162, wherein R_6 is –OH and R_7 is $-L_6$-G_6.

166. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein each G, G_1, G_2, G_3, G_4, and G_5 is independently selected from the group consisting of D-Glucopyranose, L-Glucopyranose, D-Fructopyranose, D-Mannopyranose, L-Mannopyranose, D-Galactopyranose, L-Galactopyranose, D-Tagatopyranose, L-Sorbopyranose, D-Xylopyranose, D-Ribopyranose, D-Arabopyranose, L-Arabopyranose, L-Xylulopyranose, D-Ribulopyranose, 6-deoxy-D-Glucopyranose, 6-deoxy-L-Glucopyranose, 6-deoxy-D-Galactopyranose, 6-deoxy-L-Galactopyranose, 6-deoxy-L-Mannopyranose, 2-deoxy-D-Ribopyranose, D-Hamamelopyranose, D-Glucofuranose, L-Glucofuranose, D-Fructofuranose, D-Mannofuranose, L-Mannofuranose, D-Galactofuranose, L-Galactofuranose, D-Tagatofuranose, L-Sorbofuranose, D-Xylofuranose, D-Ribofuranose, D-

Arabofuranose, L-Arabofuranose, L-Xylulofuranose, D-Ribulofuranose, D-Threofuranose, D-Erythrofuranose, 6-deoxy-D-Glucofuranose, 6-deoxy-L-Glucofuranose, 6-deoxy-D-Galactofuranose, 6-deoxy-L-Galactofuranose, 6-deoxy-L-Mannofuranose, 2-deoxy-D-Ribofuranose, D-Apiofuranose, and D-Hamamelofuranose.

167. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein each n^1, n^2, n^3, n^4, and n^5 are independently an integer from 0 to 2.

168. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein n^4 is 1, 2, or 3.

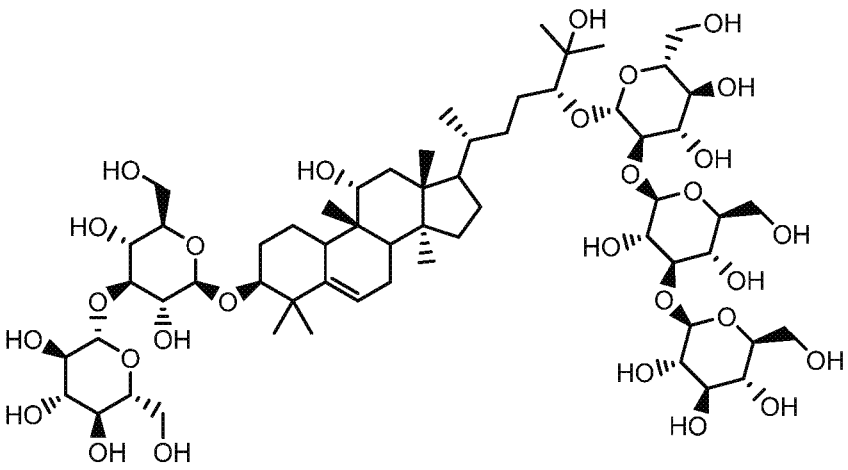
169. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein n^3 is 0.

170. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein each L_1, L_2, L_3 L_4, and L_5 are β glycosidic bonds.

171. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein each L_1, L_2, L_3 L_4, and L_5 are α glycosidic bonds.

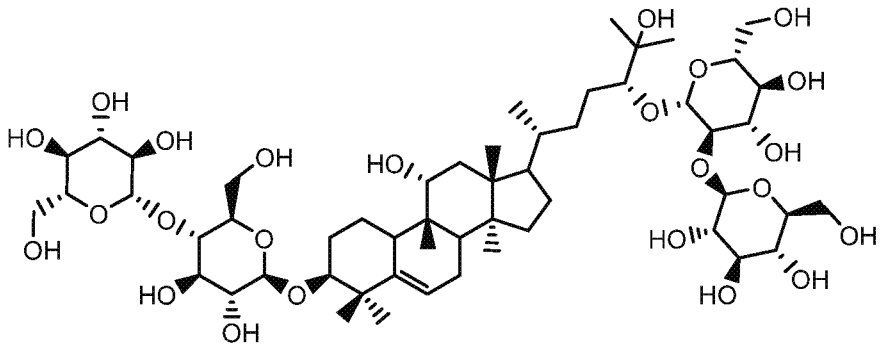
172. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein at least one of L_1, L_2, L_3, L_4, and L_5 is an α glycosidic bond.

173. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure:



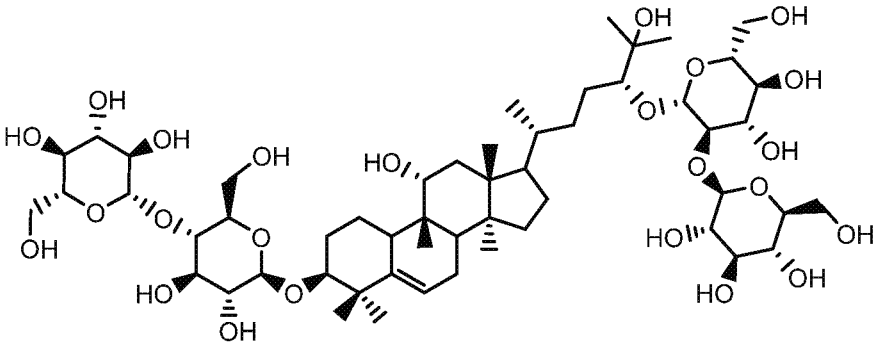
, or a salt thereof.

174. The compound of claim 1, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has the structure:

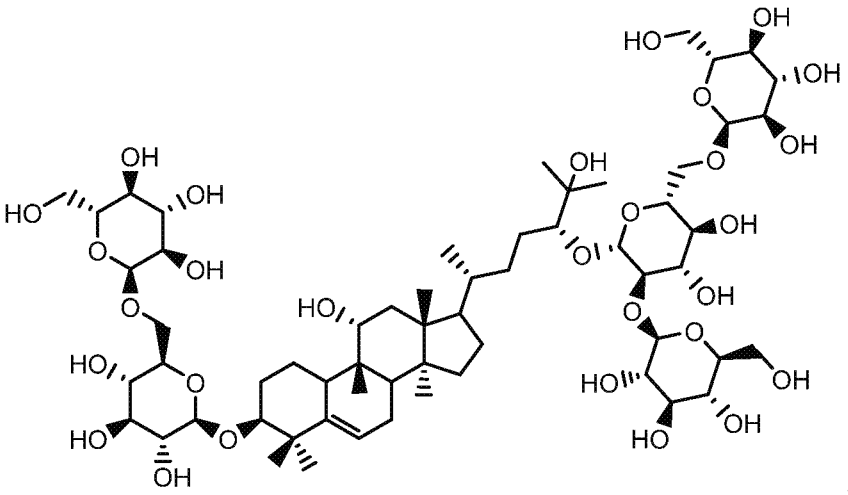


, or a salt thereof.

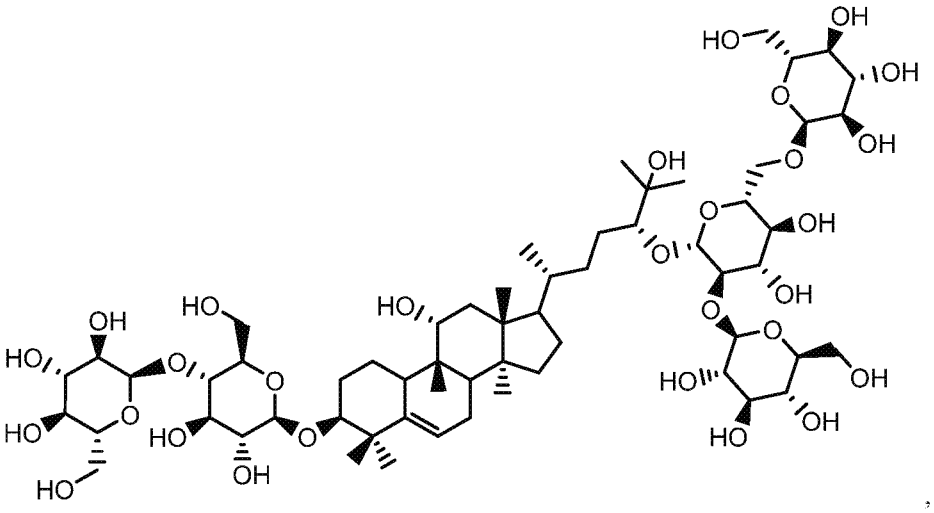
175. The compound of claim 1 or 2, the composition of any one of claims 3-94 and 103-129, the product of any one of claims 95-102, the method of any one of claims 130-135 and 146-150, or the concentrate of any one of claims 136-145, wherein the compound has a structure selected from:



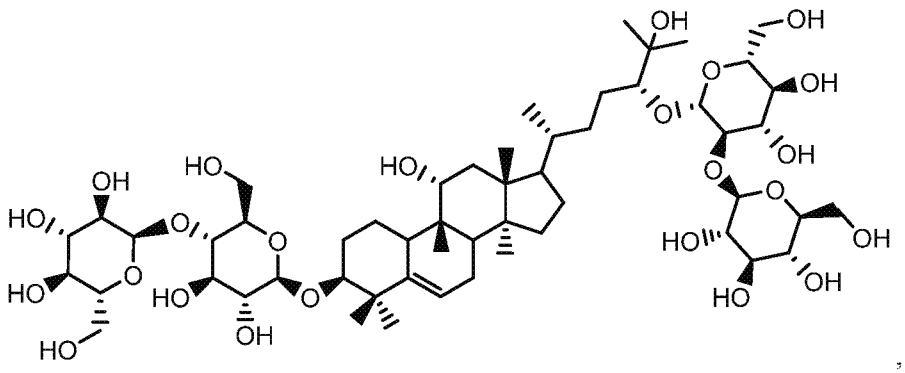
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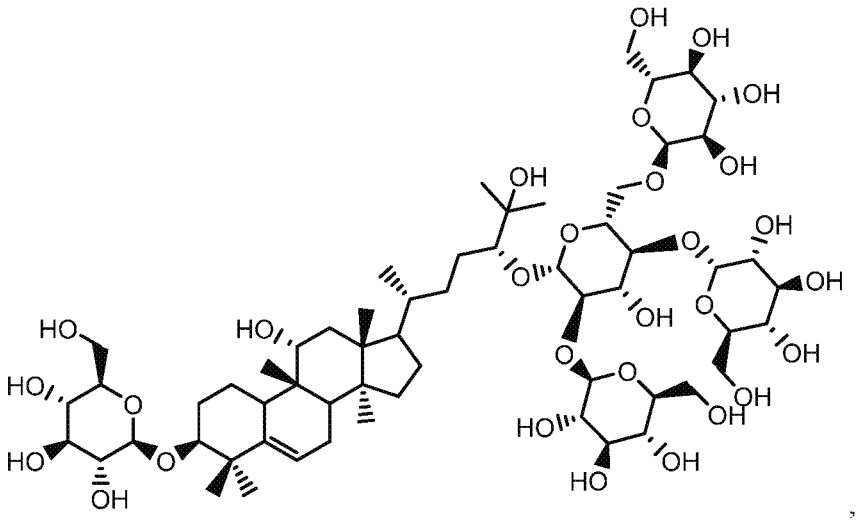


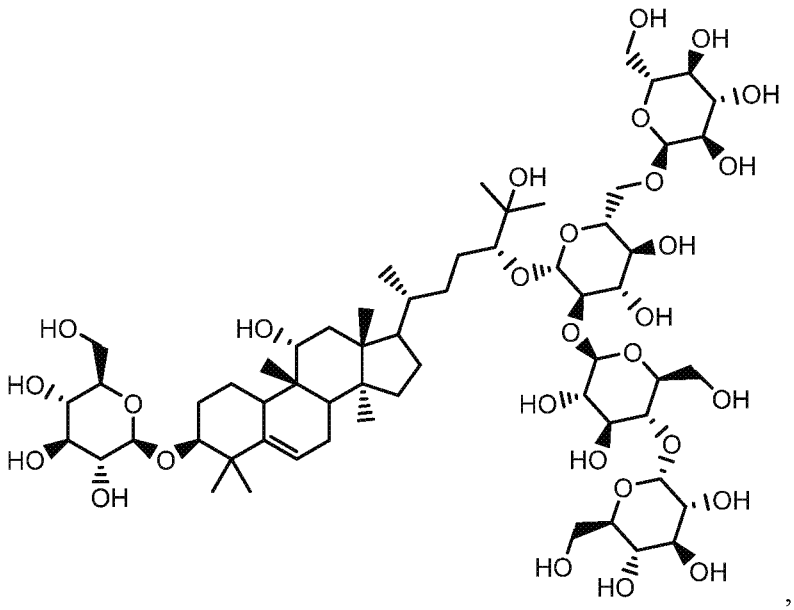
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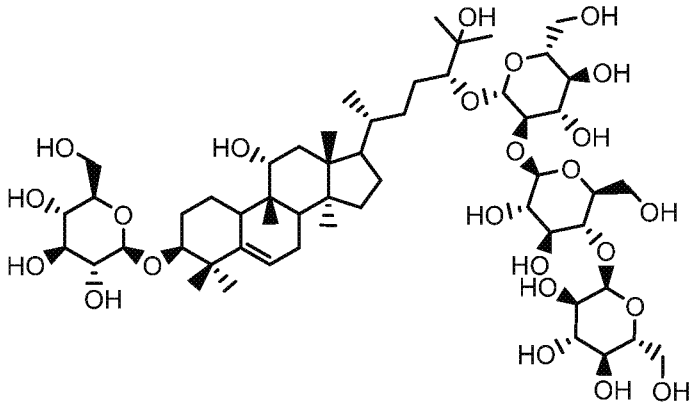


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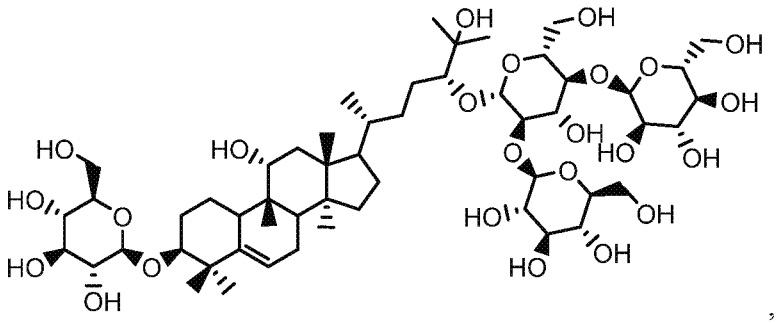




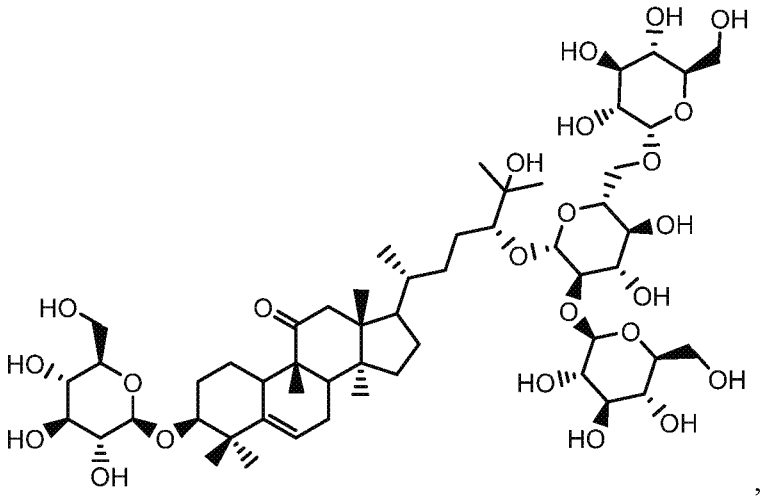




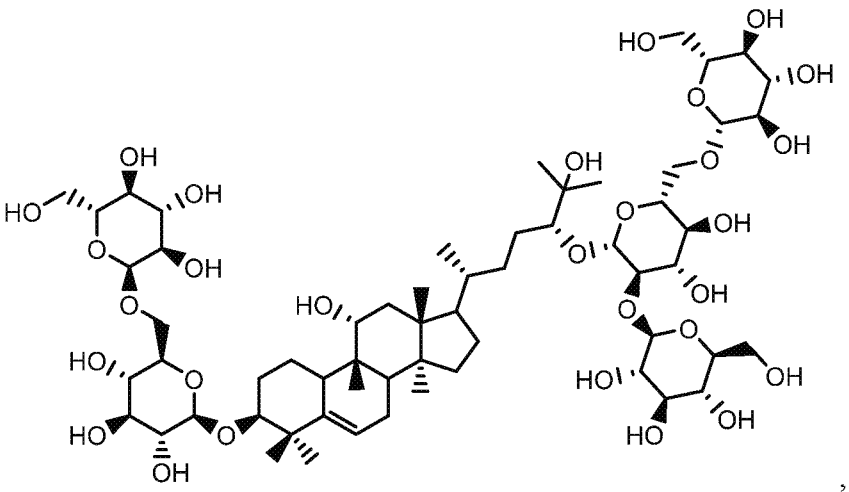
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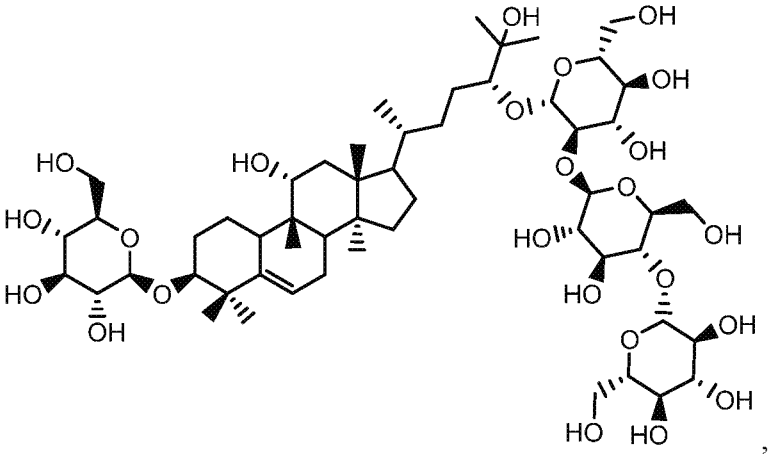
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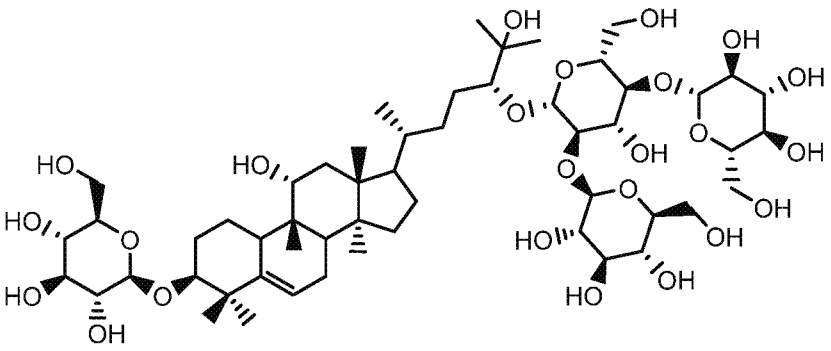
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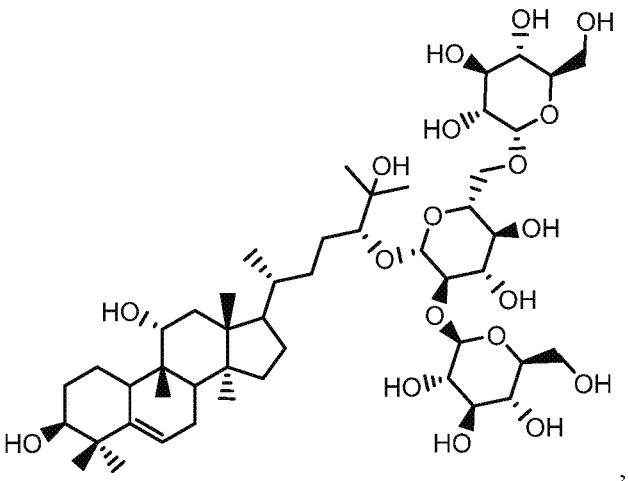
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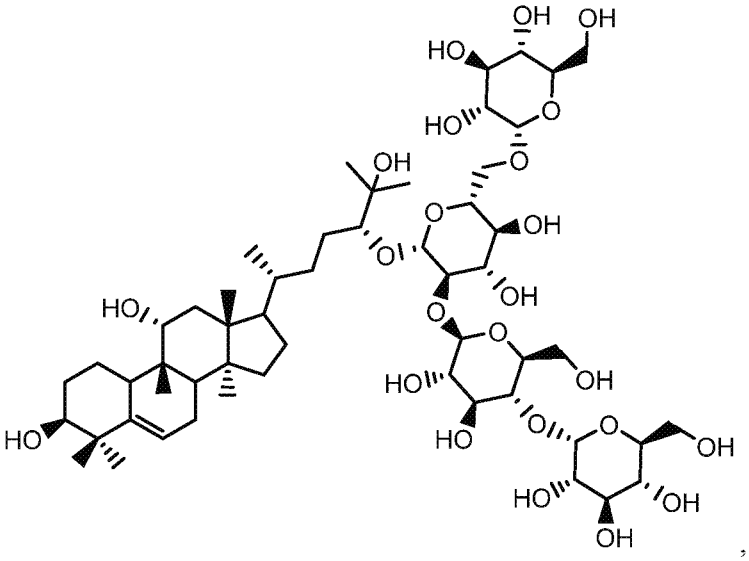
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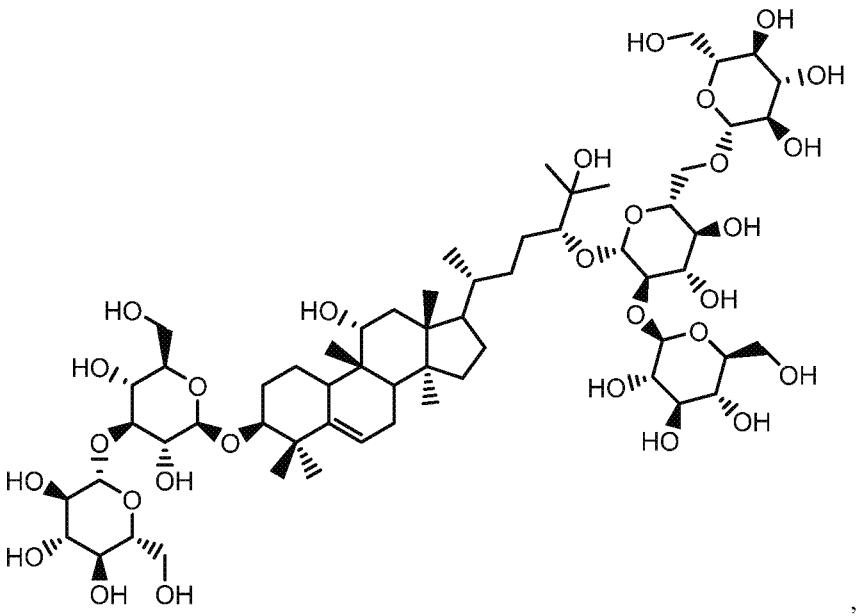
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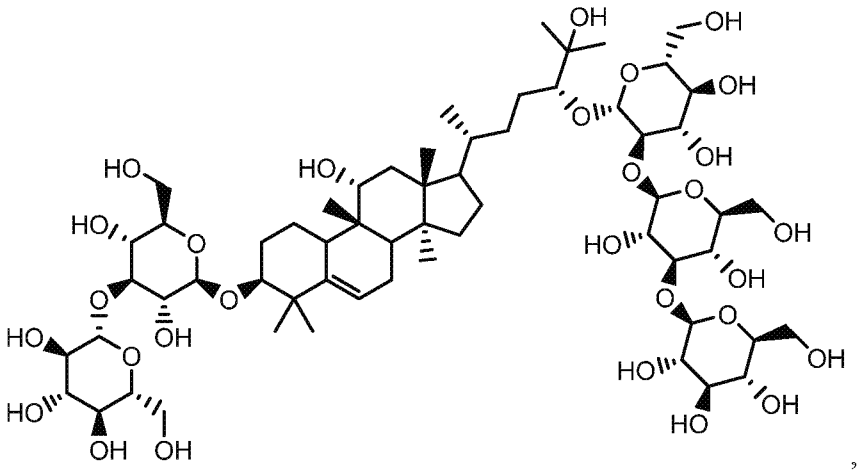
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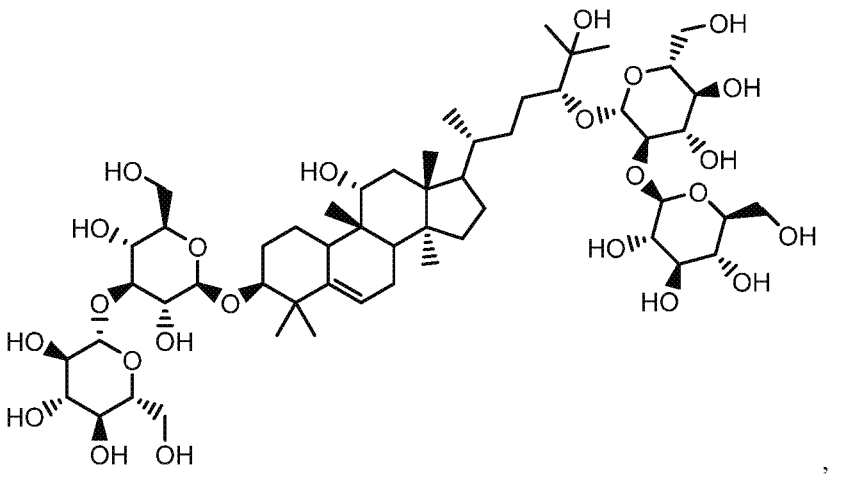
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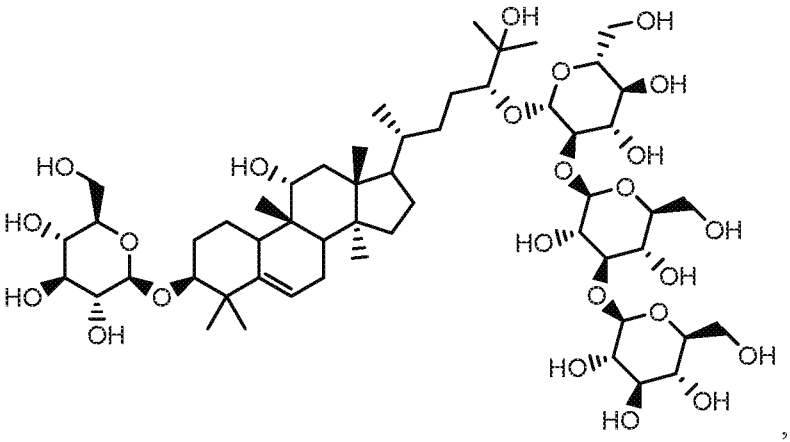
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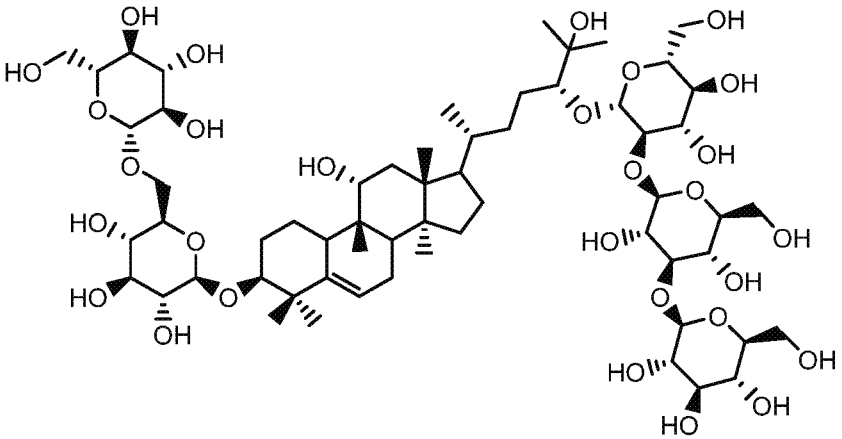


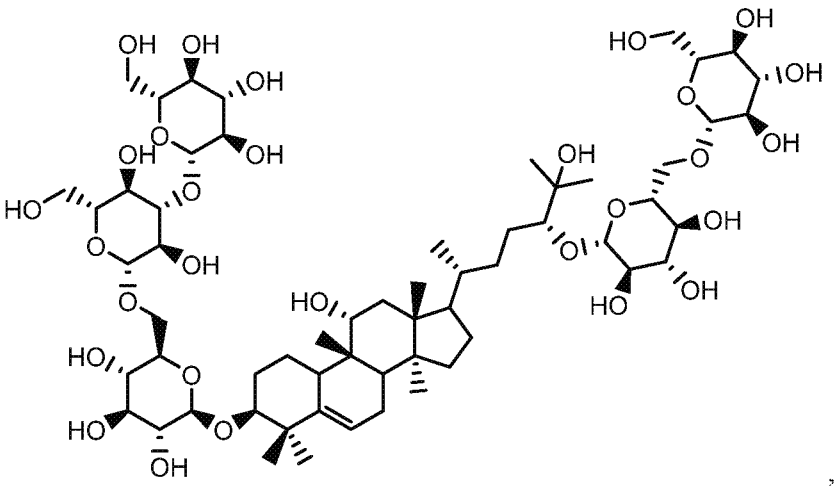
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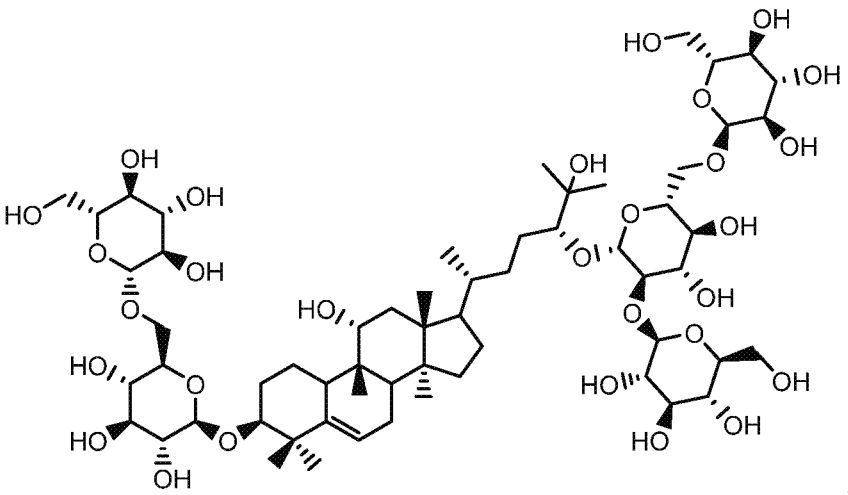


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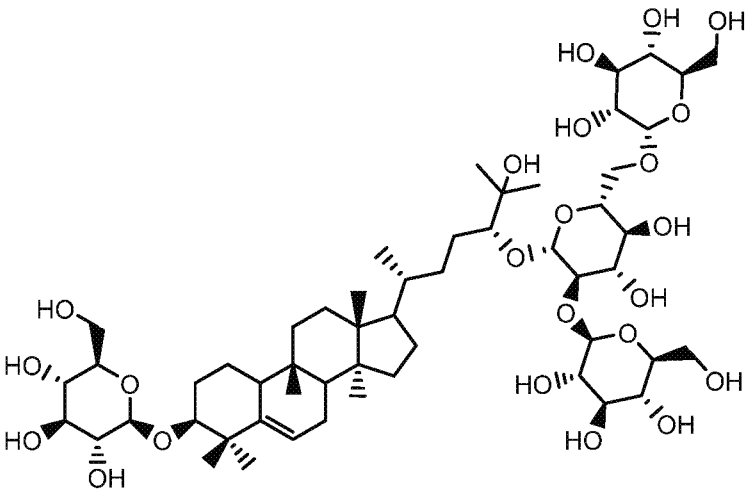




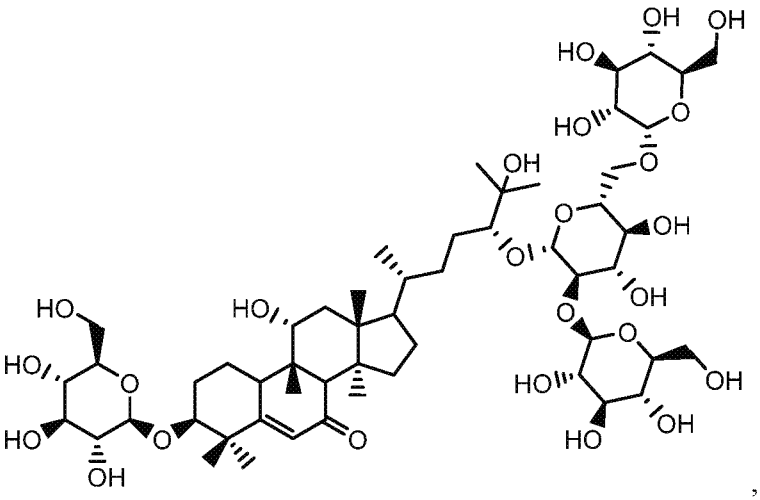




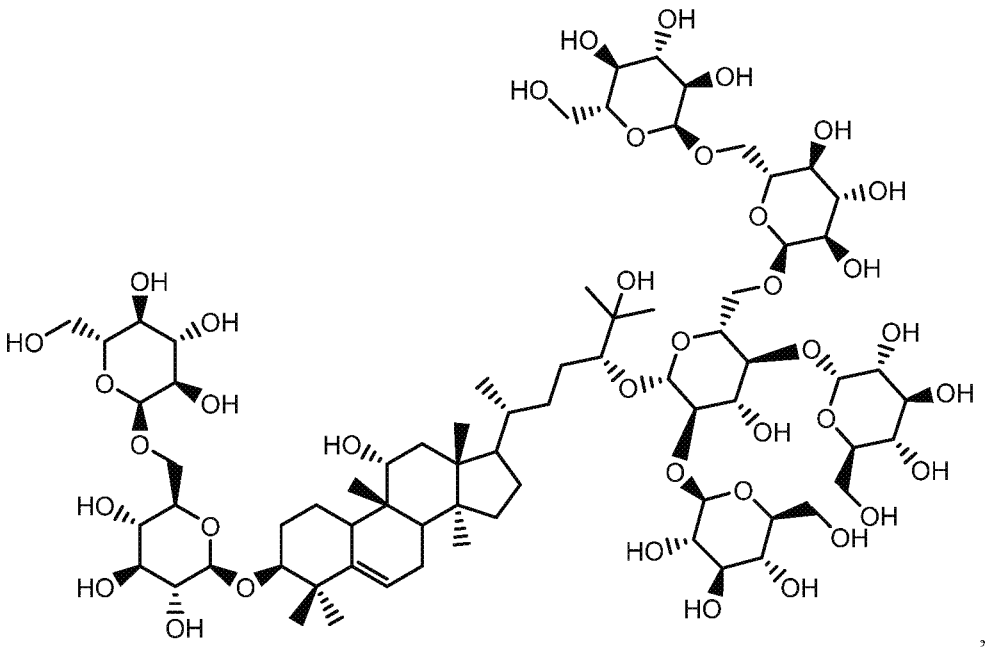
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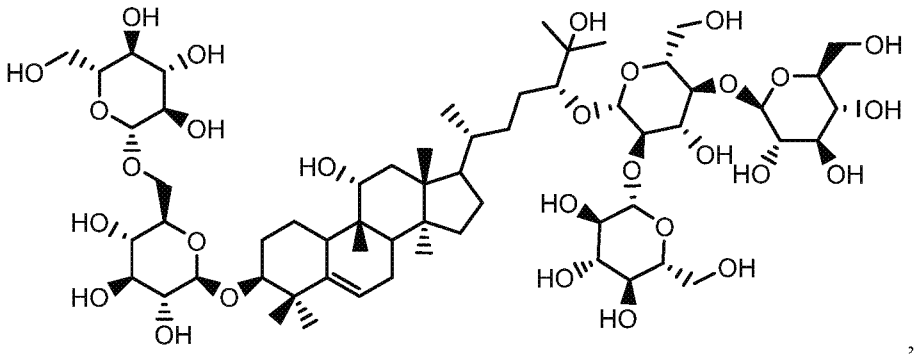


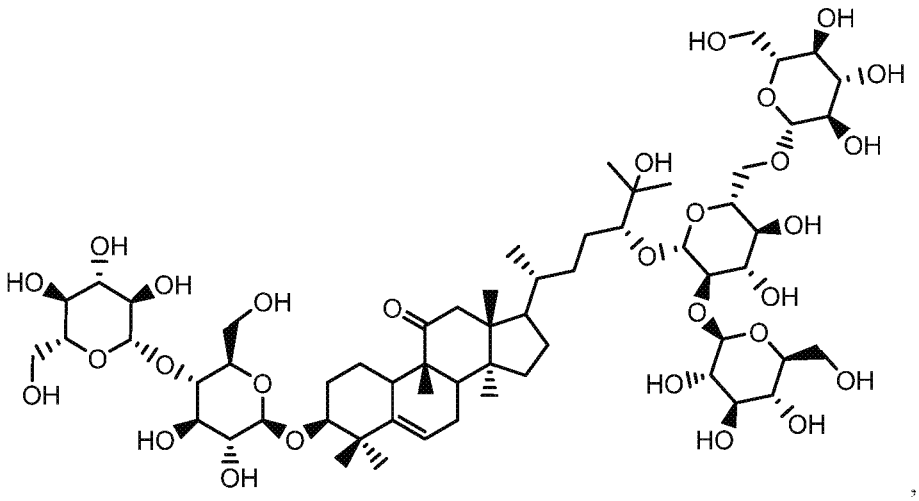
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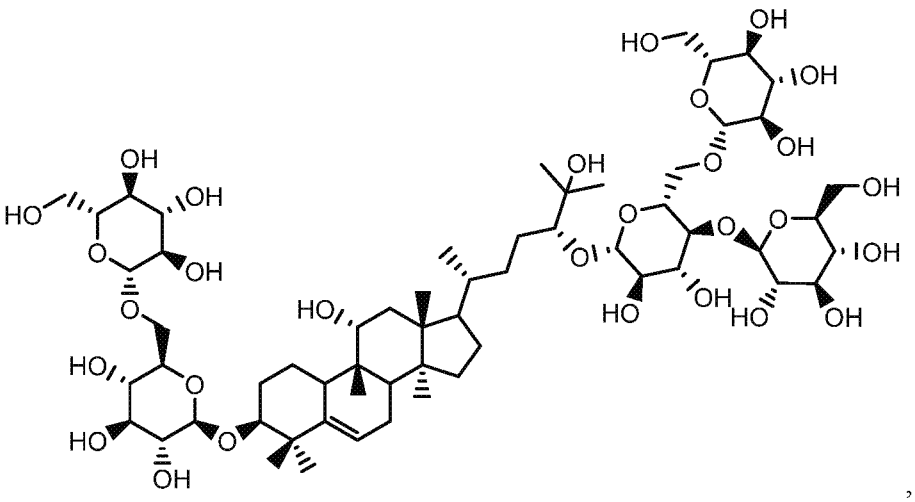


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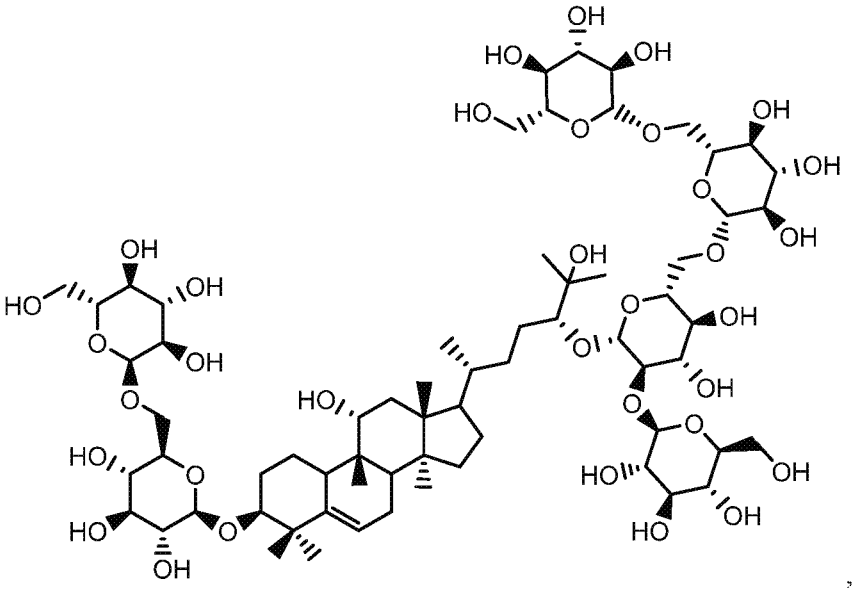




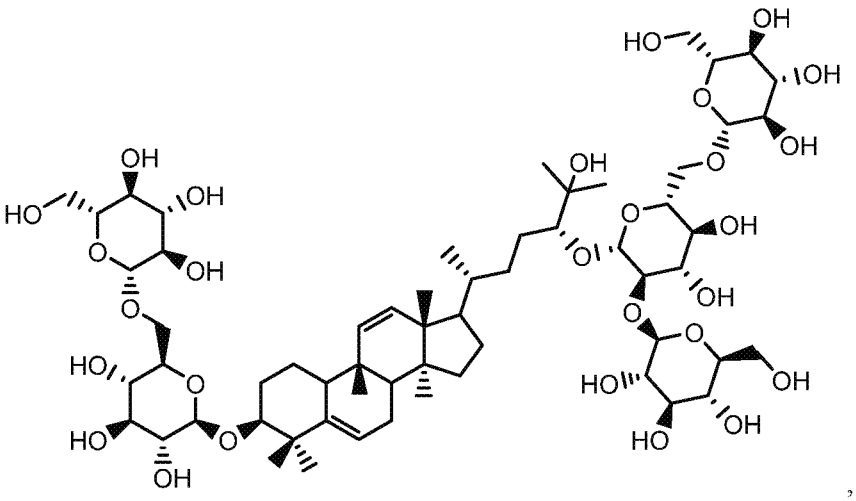




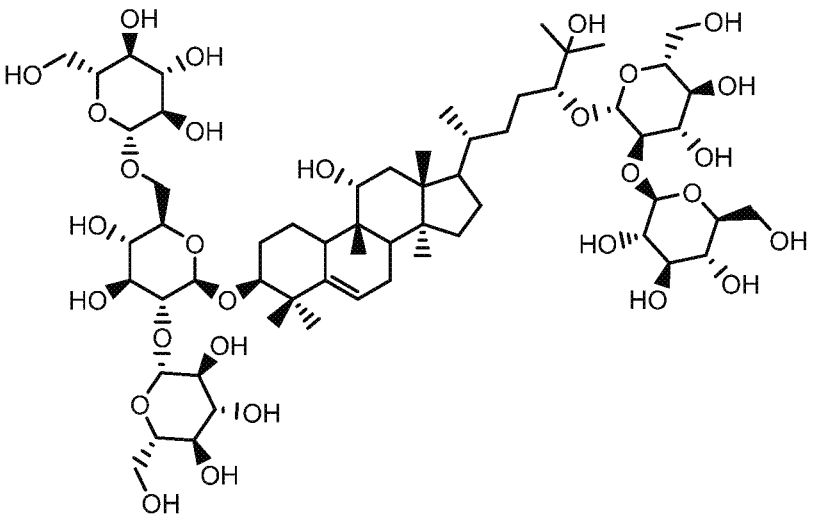
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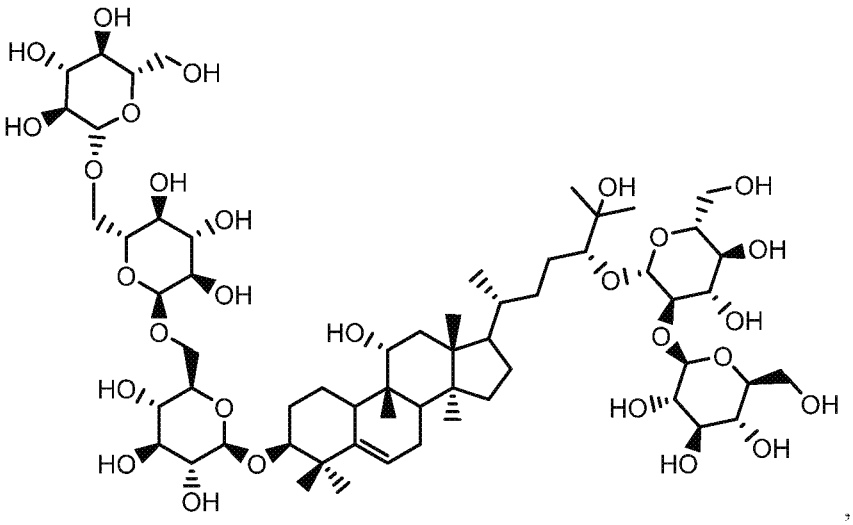
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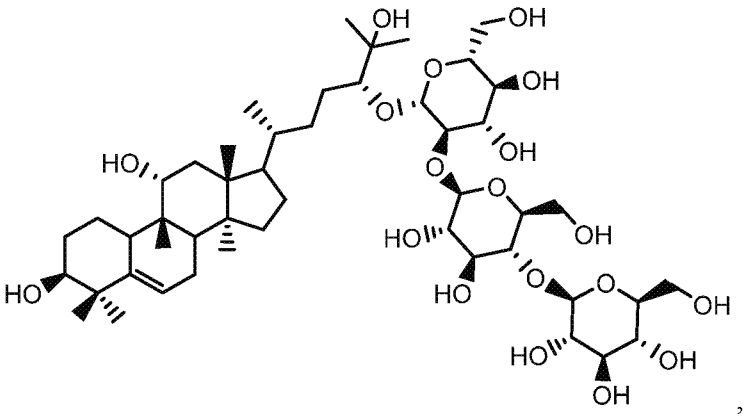
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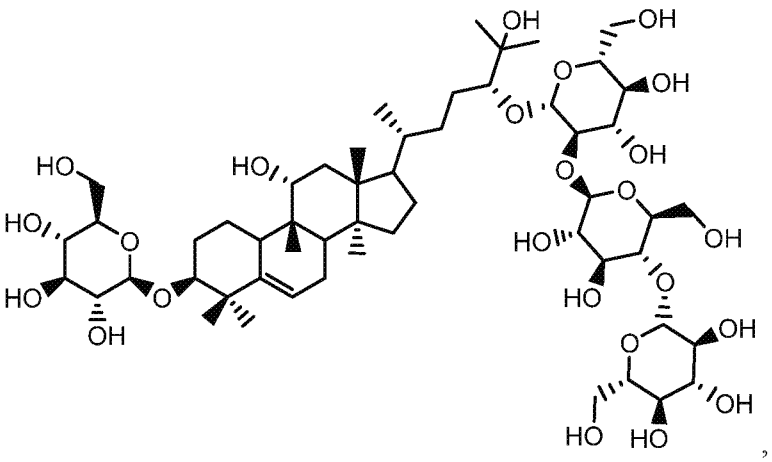
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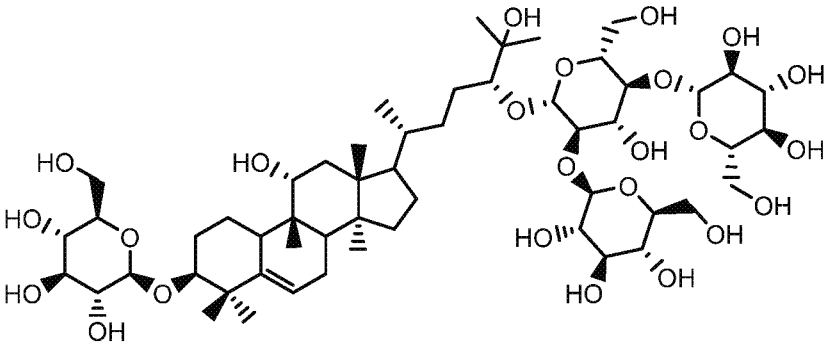
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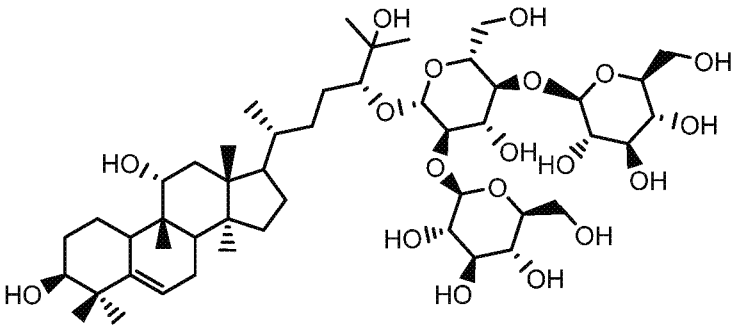
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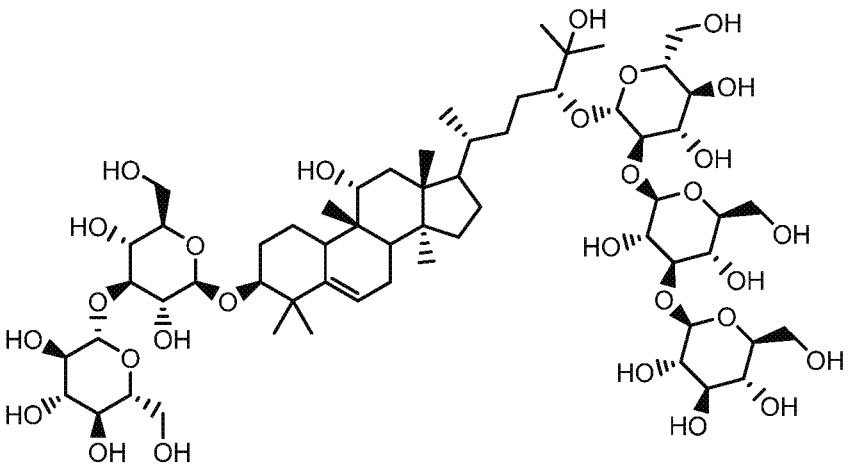


, and



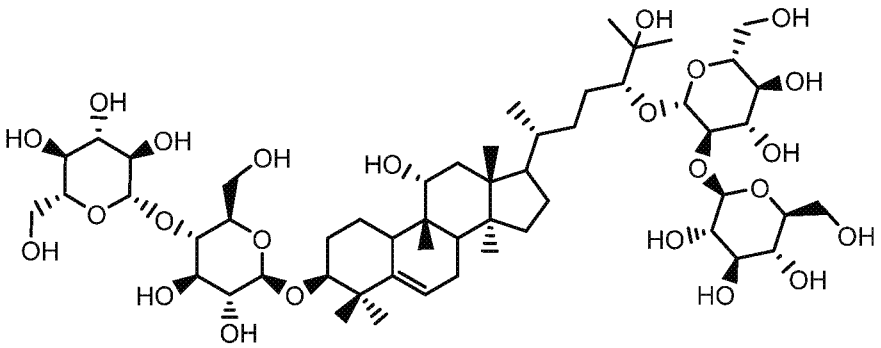
, or a salt thereof.

176. A method of making a compound having the structure:



, the method comprising treating Mogroside III_E with the glucose transferase enzyme UGT76G1.

177. A method of making a compound having the structure of Compound 1:



(1),

the method comprising fractionating an extract of *Siraitia grosvenorii* on an HPLC column and collecting an eluted fraction comprising Compound 1.

24499685
102516

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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C12P 33/20 (2006.01)

(21) **International Application Number**:
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62/248,206 29 October 2015 (29.10.2015) US

(71) **Applicant**: **SENOMYX, INC.** [US/US]; 4767 Nexus Center Drive, San Diego, CA 92121 (US).

(72) **Inventors**: **PATRON, Andrew**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **MANAM, Rama**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **COLQUITT, Justin**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **SERVANT, Nicole**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **NORIEGA, Chris, Edano**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **HAMMAKER, Jeffrey, R.**; 4767 Nexus Center Drive, San Diego, CA 92121 (US). **GONSALVES, Nicole**; 4767 Nexus Center Drive, San Diego, CA 92121 (US).

(74) **Agent**: **ALTMAN, Daniel, E.**; KNOBBE, MARTENS, OLSON &BEAR, LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614 (US).

(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) **Date of publication of the international search report**:
26 May 2017

WO 2017/075257 A3

(54) **Title**: HIGH INTENSITY SWEETENERS

(57) **Abstract**: Disclosed herein are compounds having structural Formula (I), or salts thereof. These compounds are useful as sweet tasting agents and/or sweetness enhancers. Also disclosed are compositions comprising the present compounds and methods of increasing the sweet taste of ingestible compositions. Furthermore, methods for preparing the compounds are also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/059187

A. CLASSIFICATION OF SUBJECT MATTER

C07J 9/00(2006.01)i, C07J 17/00(2006.01)i, C12P 33/20(2006.01)i, A23L 2/60(2006.01)i, A23L 27/30(2016.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07J 9/00; A23L 1/236; C07J 17/00; A23L 1/22; C12P 33/20; A23L 2/60; A23L 27/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal), STN(Registry, Caplus), Google & keywords: sweetener, mogroside, solution, bulking agent, ingestible, enzyme, UGT76G1, siraitia grosvenorii

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2015-082012 A1 (ANALYTICON DISCOVERY GMBH) 11 June 2015 See abstract; page 20, compound LI; page 23, line 35-page 27, line 32; page 29, lines 8, 9; and page 37, line 28-page 38, line 21; and claim 1, formula (I).	1-15,37-46,69-82,103-126,130,136-144
A		176,177
X	WANG, L. et al., "Cucurbitane glycosides derived from mogroside IIE: Structure-taste relationships, antioxidant activity, and acute toxicity", Molecules, 20 August 2014, Vol. 19, No. 8, pp. 12676-12689 See abstract; figure 5; and compounds 1-3.	1,2
X	YANG, X.-W. et al., "Grosmomoside I, a new cucurbitane triterpenoid glycoside from fruits of Momordica grosvenori", Chinese traditional and herbal drugs, September 2005, Vol. 36, No. 9, pp. 1285-1290 See abstract; and figure 1, compound III.	1,2
A	KASAI, R. et al., "Glycosides from Chinese medicinal plant, Hemsleya panacis-scandens, and structure-taste relationship of cucurbitane glycosides", Chemical & pharmaceutical bulletin, 1988, Vol. 36, No. 1, pp. 234-243 See abstract; and chart 2, compound 24.	1-15,37-46,69-82,103-126,130,136-144,176,177

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
28 April 2017 (28.04.2017)	**01 May 2017 (01.05.2017)**

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea
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Authorized officer
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/059187

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006-0228454 A1 (ACKILLI, J. A. et al.) 12 October 2006 See claim 1.	1-15,37-46,69-82 ,103-126,130 ,136-144,176,177

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/059187

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 24-27,29-31,33,67,68,96,134,135,147-149,158
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 24-27, 29-31, 33, 67, 68, 96, 134, 135, 147-149 and 158 refer to a multiple dependent claim which does not comply with PCT Rule 6.4(a).

3. ☒ Claims Nos.: 16-23,28,32,34-36,47-66,83-95,97-102,127-129,131-133,145,146,150-157,159-175
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required addtional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of any additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2016/059187

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2015-082012 A1	11/06/2015	AU 2013-407055 A1	09/06/2016
		CA 2931536 A1	11/06/2015
		CN 105848496 A	10/08/2016
		EP 3099186 A1	07/12/2016
		JP 2016-540507 A	28/12/2016
		KR 10-2016-0093704 A	08/08/2016
		MX 2016007178 A	29/09/2016
		US 2017-029458 A1	02/02/2017
US 2006-0228454 A1	12/10/2006	EP 1879471 A2	23/01/2008
		EP 1879471 A4	18/01/2012
		EP 1879471 B1	31/12/2014
		US 9560872 B2	07/02/2017
		WO 2006-102435 A2	28/09/2006
		WO 2006-102435 A3	22/03/2007

(19)中华人民共和国国家知识产权局

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(21)申请号 201680075118.8

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(30)优先权数据
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(85)PCT国际申请进入国家阶段日
2018.06.21

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(71)申请人 赛诺米克斯公司
地址 美国加利福尼亚州

(72)发明人 安德鲁·佩特伦 拉马·马纳姆
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尼科尔·瑟温特
克里斯·枝野·诺列加
杰弗里·R·哈马克
尼科尔·贡萨尔维斯

(74)专利代理机构 北京英赛嘉华知识产权代理有限责任公司 11204
代理人 王达佐 洪欣

(51)Int.Cl.
C07J 9/00(2006.01)
C07J 17/00(2006.01)
C12P 33/20(2006.01)
A23L 2/60(2006.01)
A23L 27/30(2006.01)

权利要求书125页 说明书300页

(54)发明名称

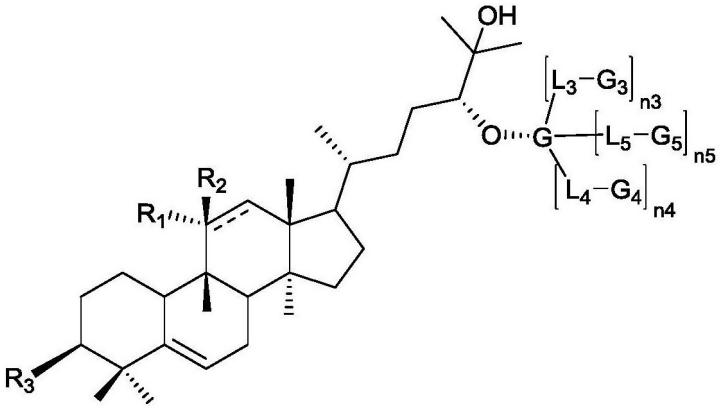
高强度甜味剂

(57)摘要

本文公开了具有结构式(I)的化合物或其盐。这些化合物可用作甜味剂和/或甜味增强剂。还公开了包含本申请化合物的组合物以及增强可摄取组合物的甜味的方法。此外,还公开了制备所述化合物的方法。

CN 108473528 A

1.具有式(I)结构的化合物：

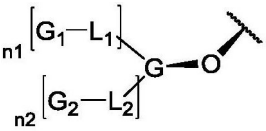


(I)

或其盐，其中：

------表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和 

；

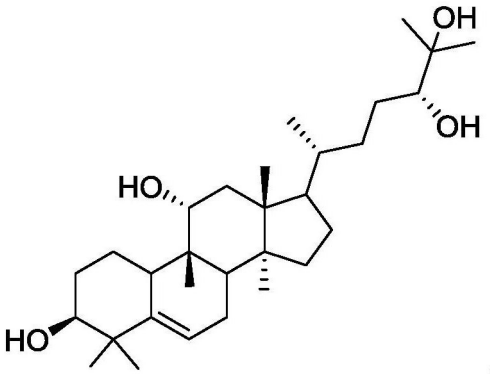
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数；

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分；

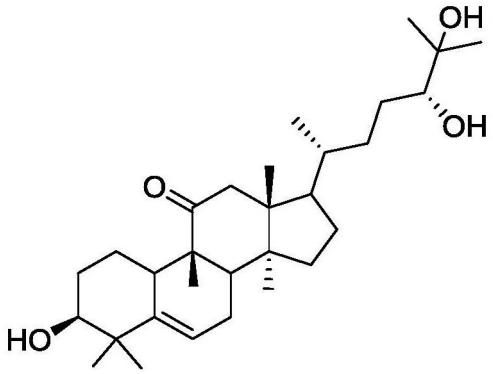
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键；以及

当------为碳-碳双键时，R_1不存在；

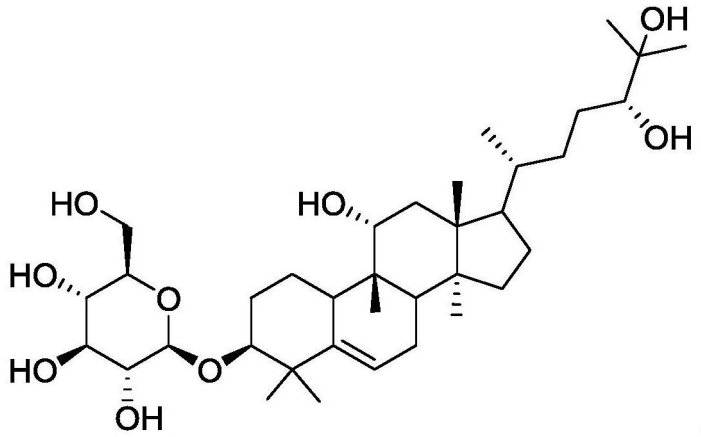
条件是式(I)不选自：


OH
OH
HO
HO

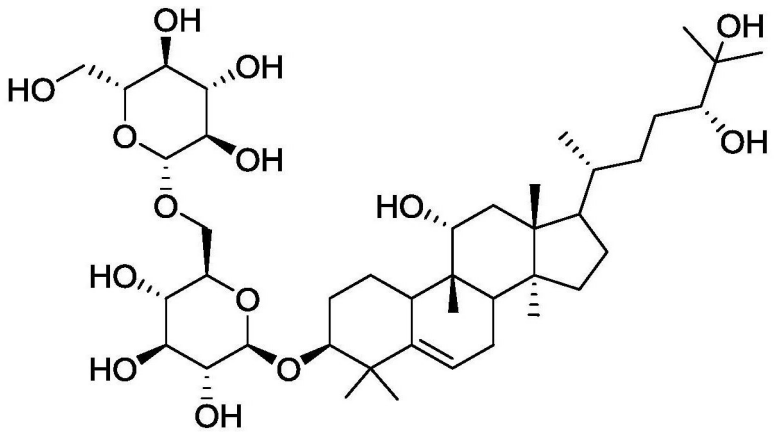
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OH
OH
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HO

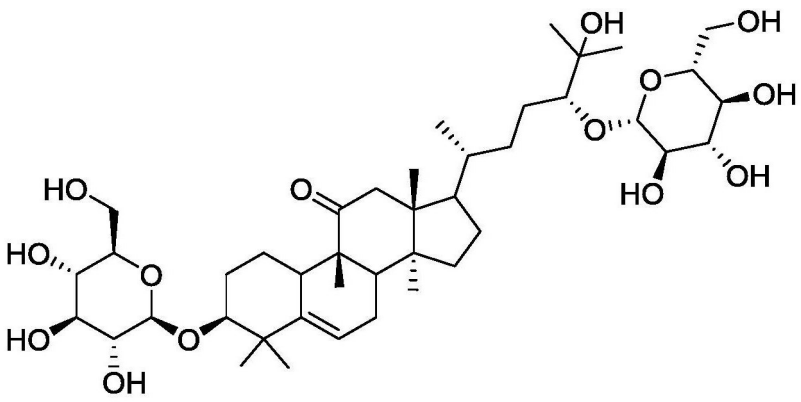
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OH
OH
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HO
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OH

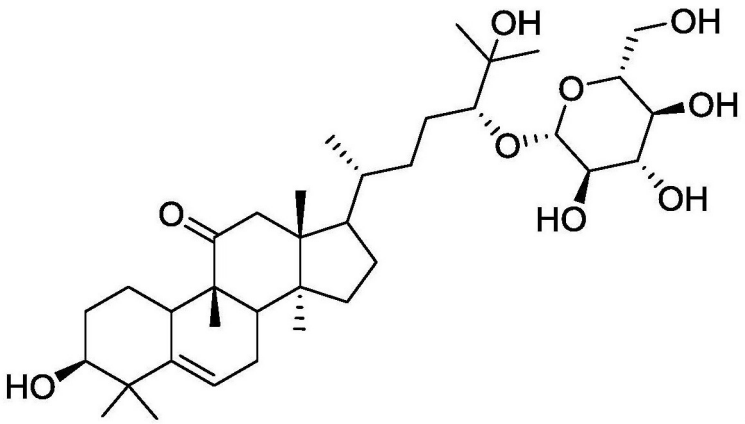
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OH
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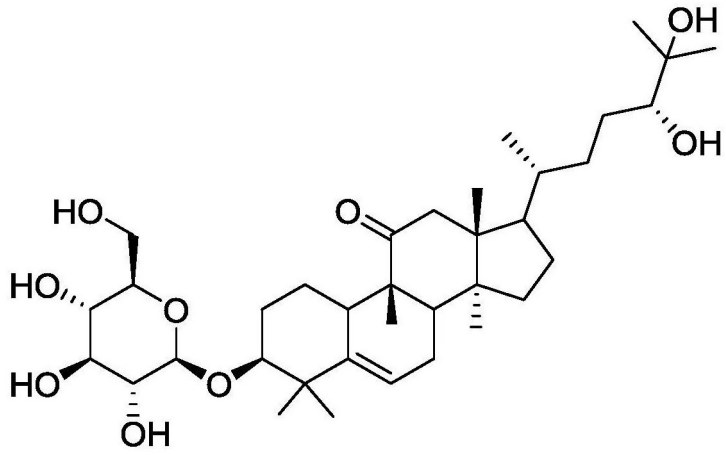
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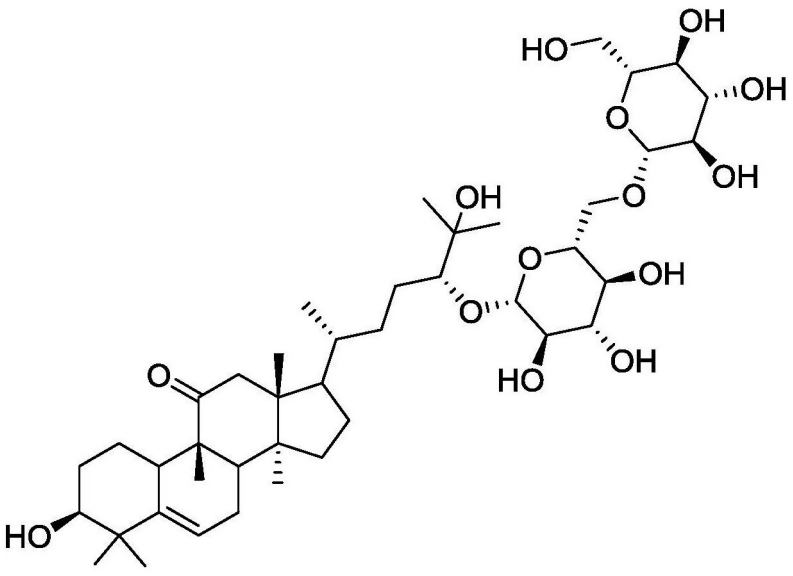
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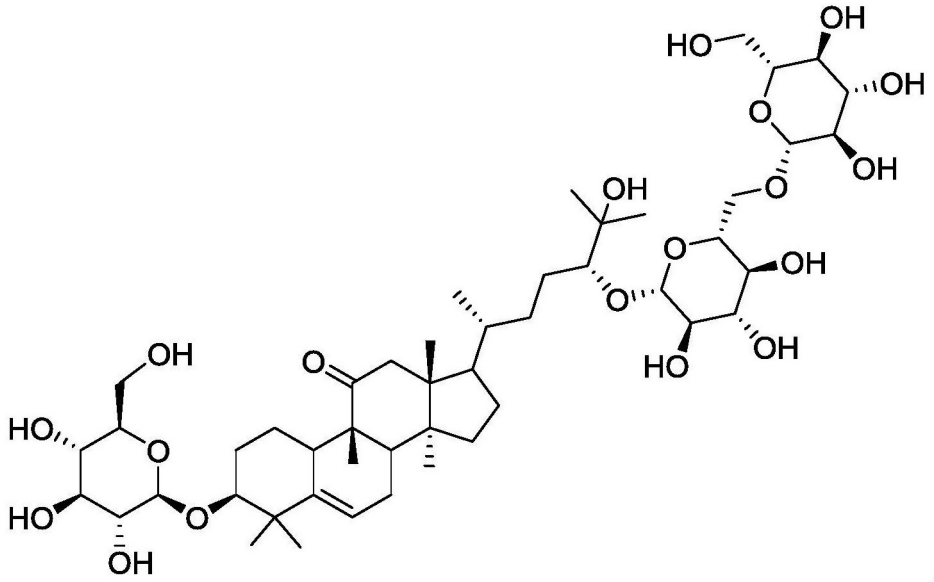
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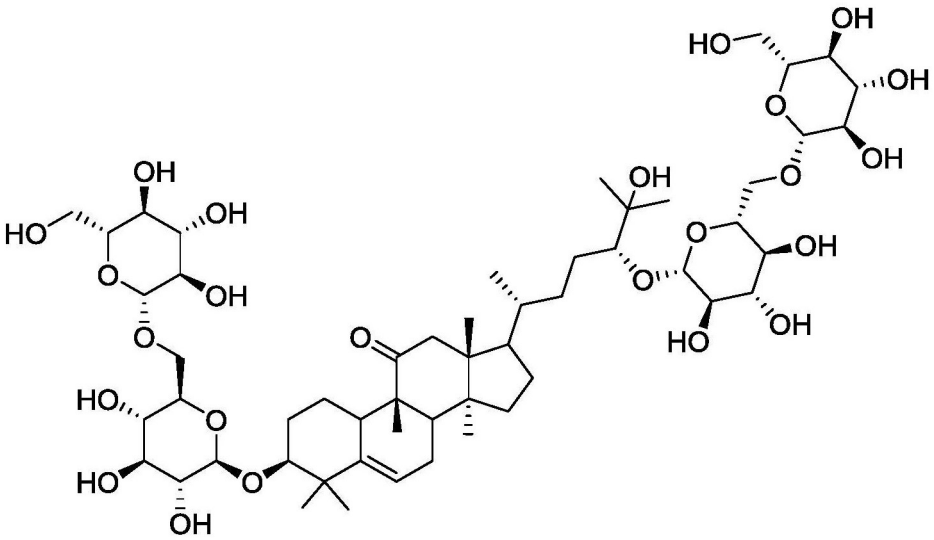
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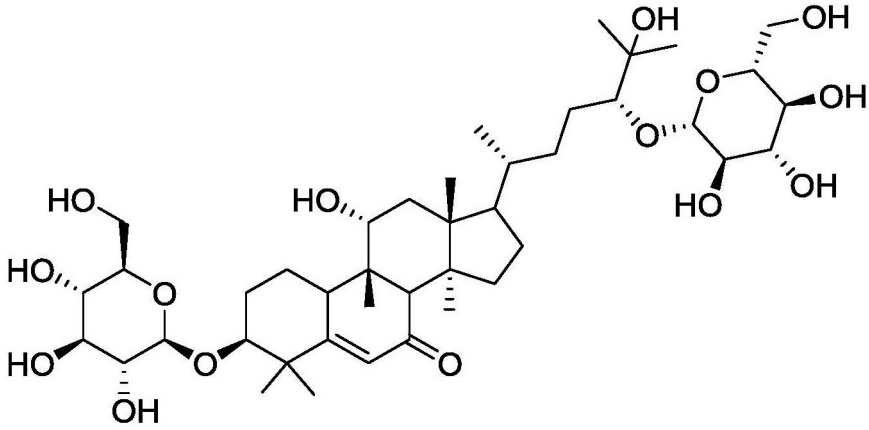
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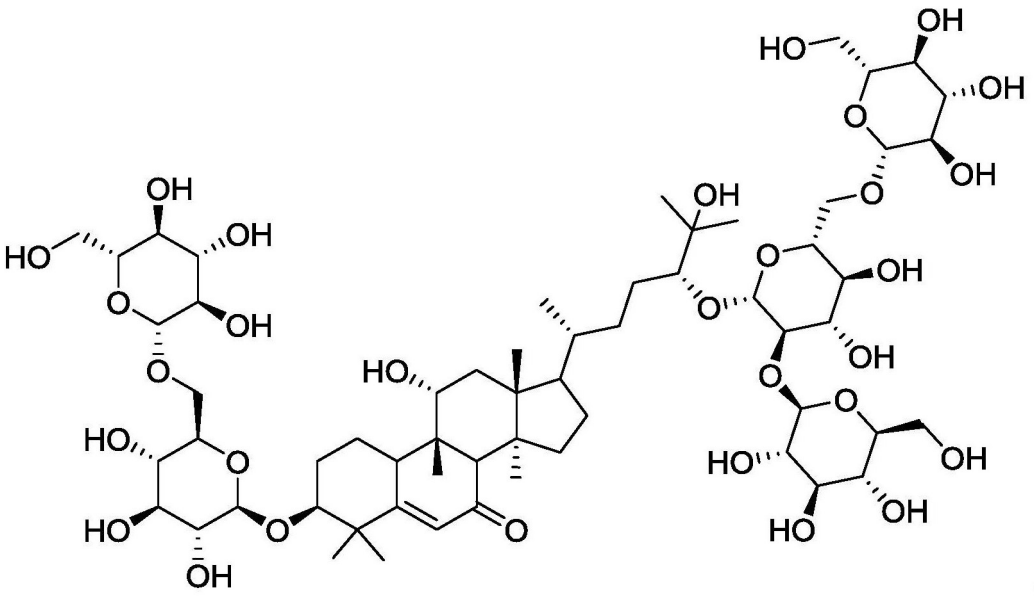
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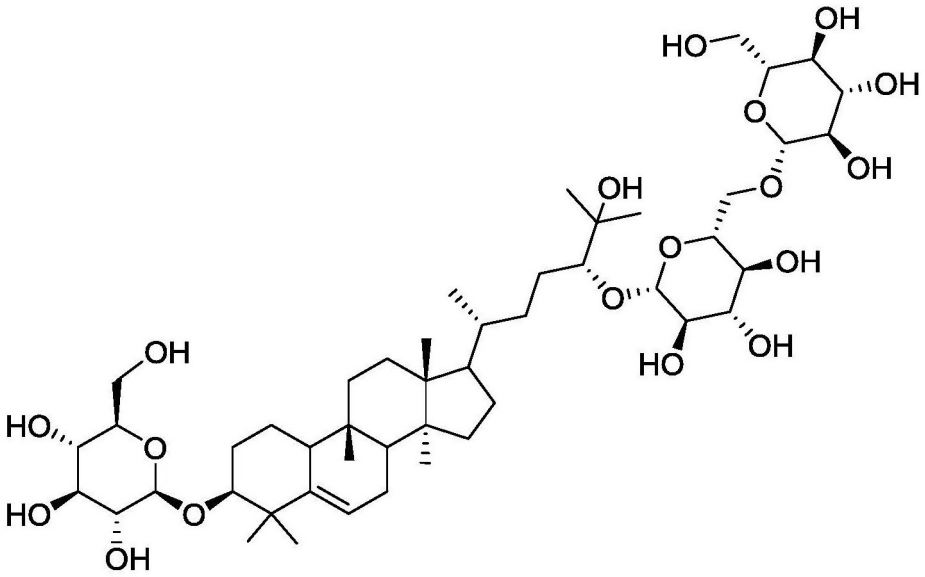
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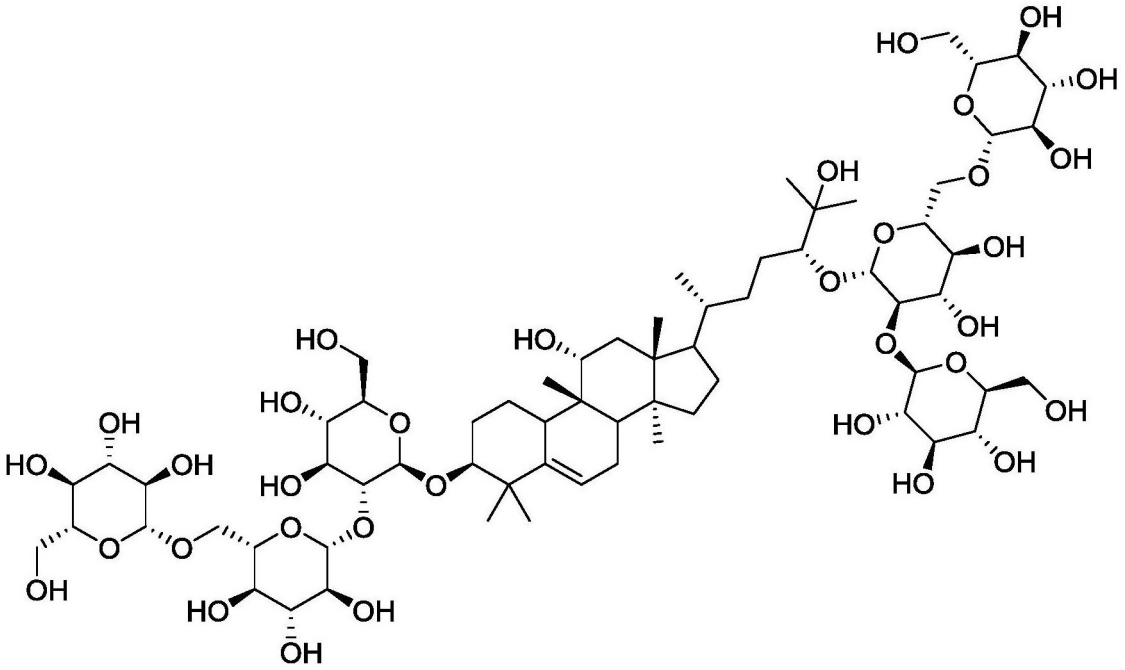
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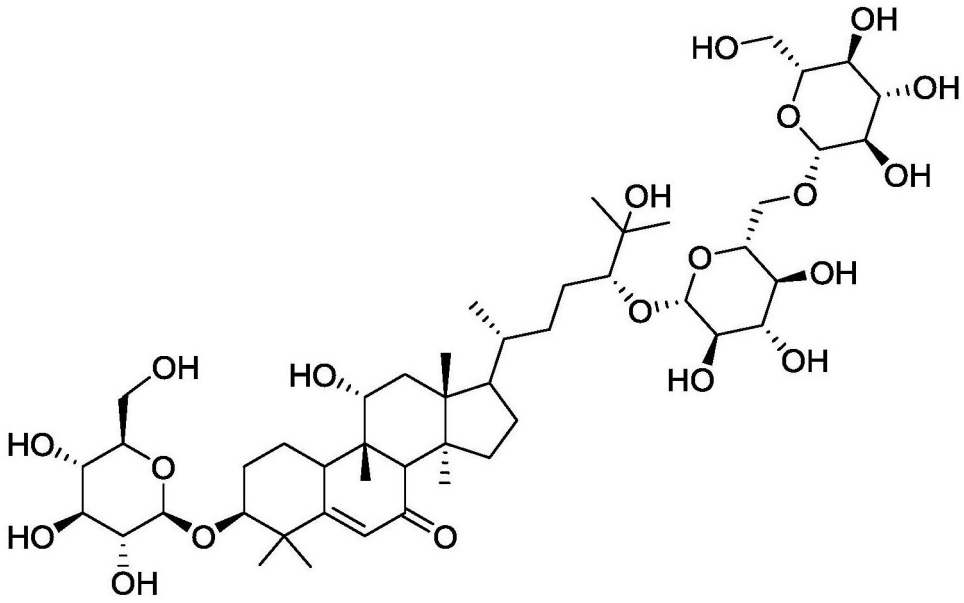
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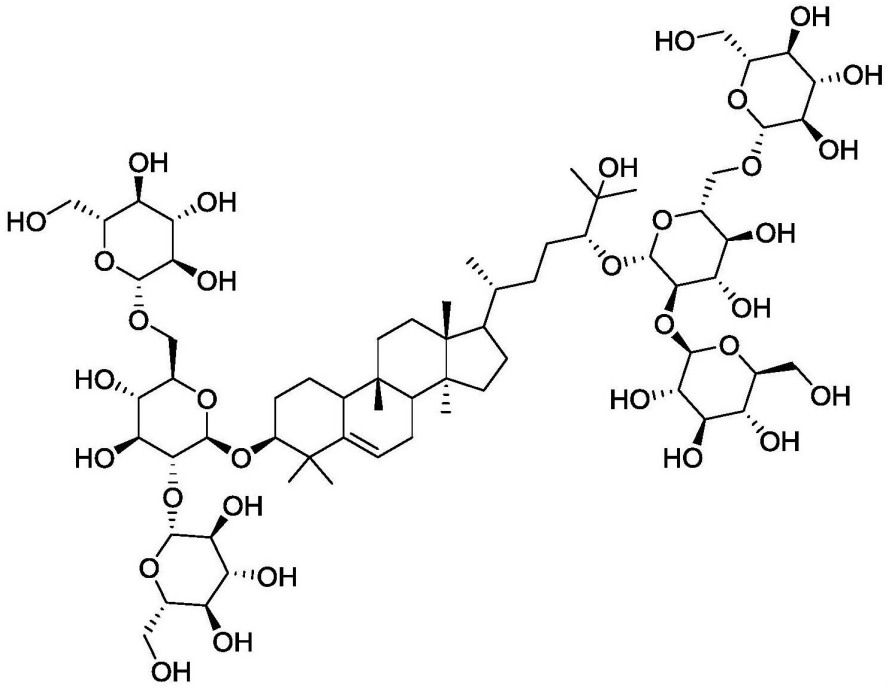
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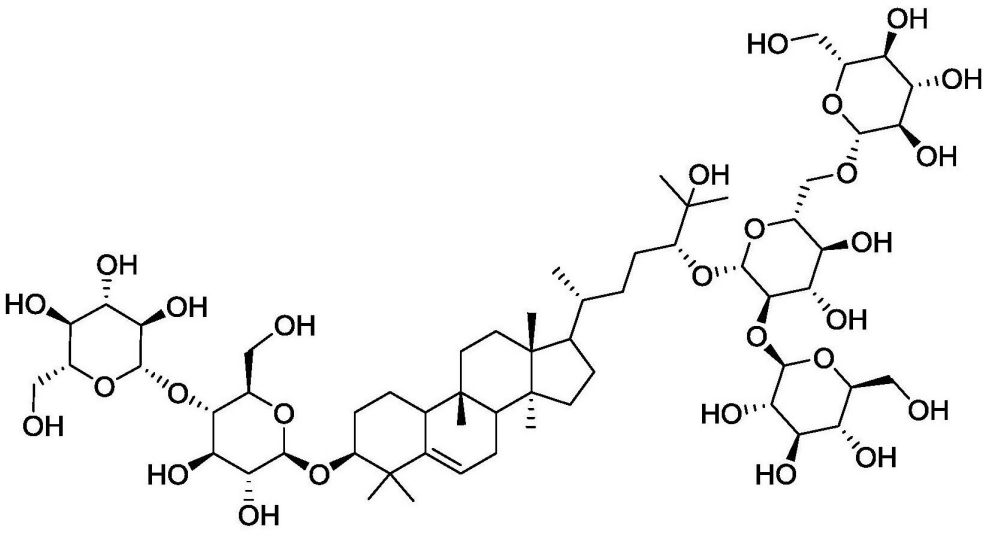
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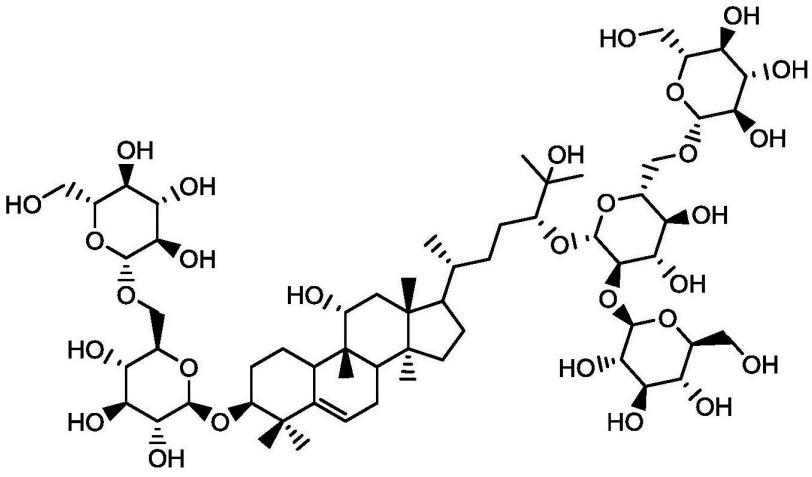
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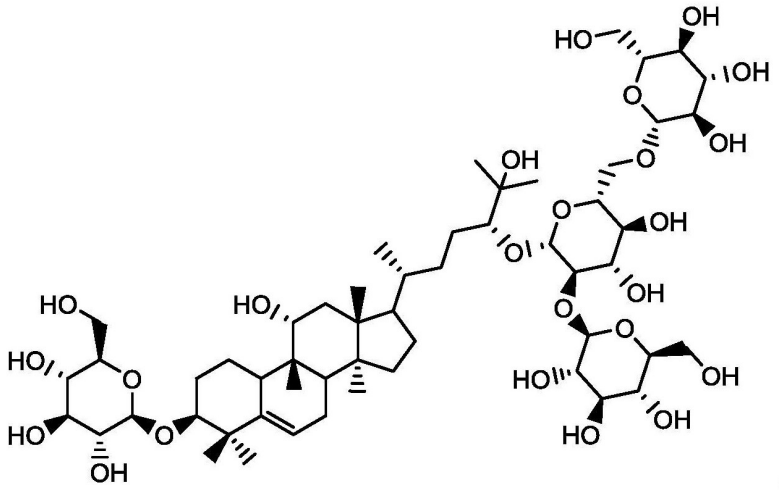
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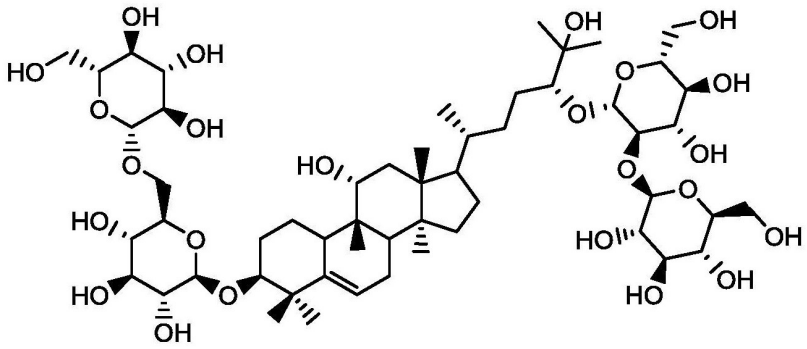
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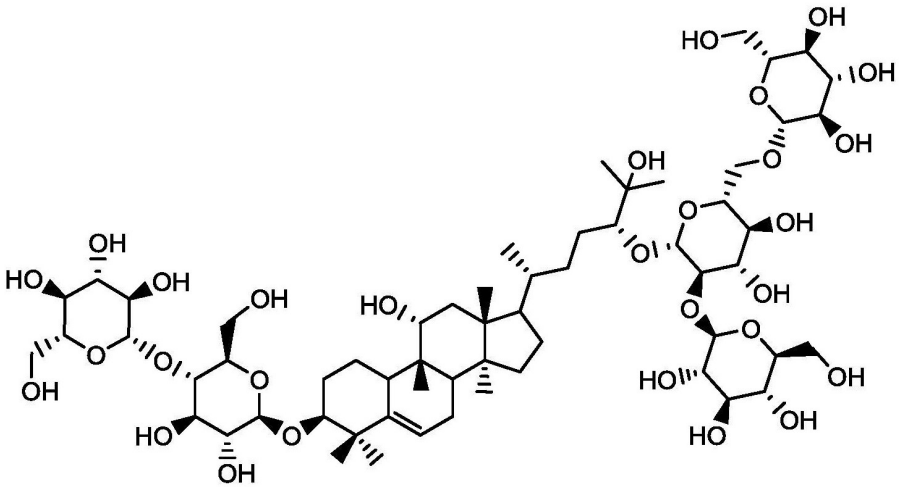
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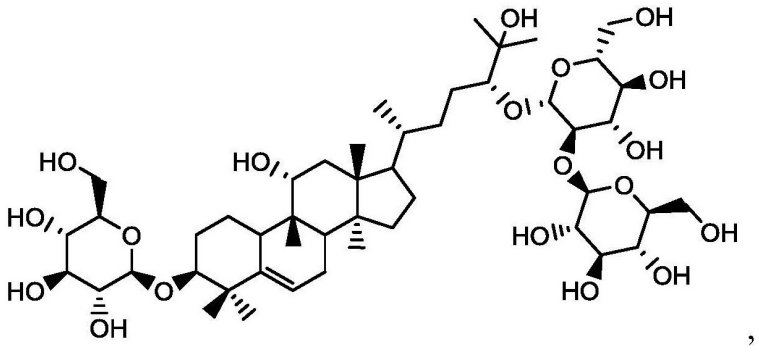
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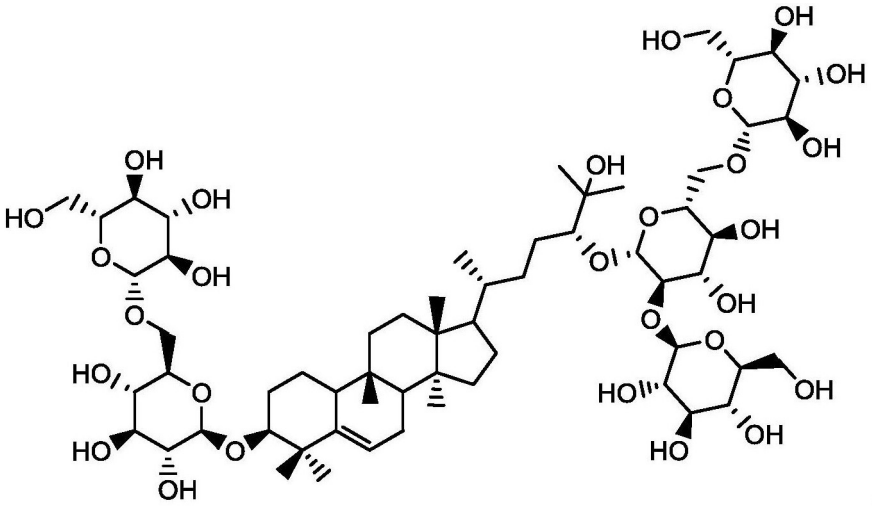
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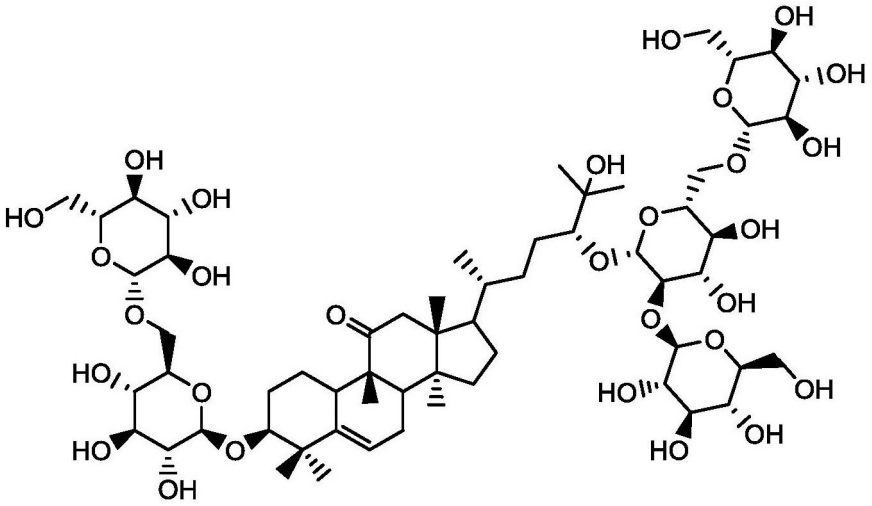
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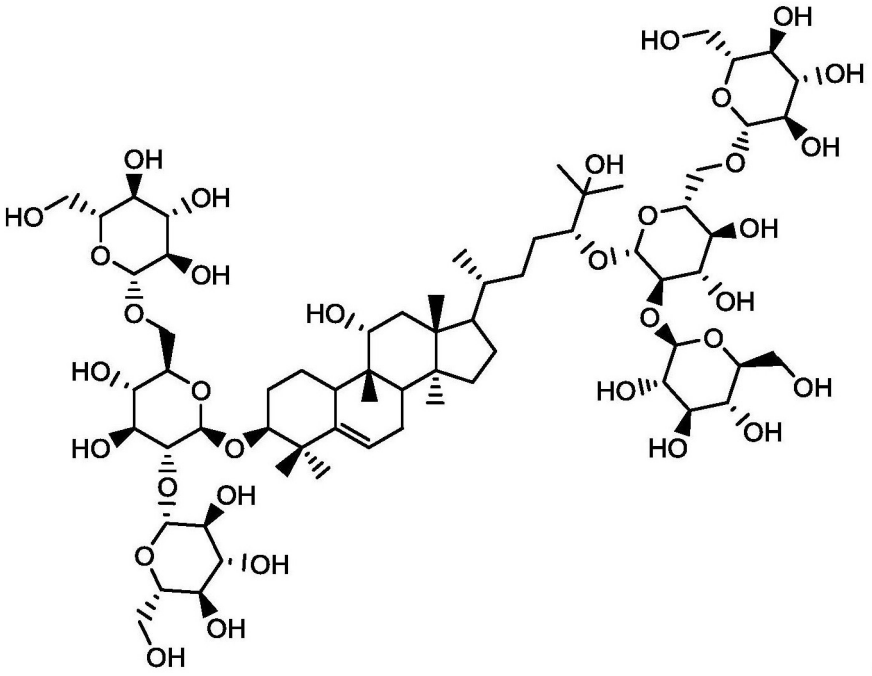
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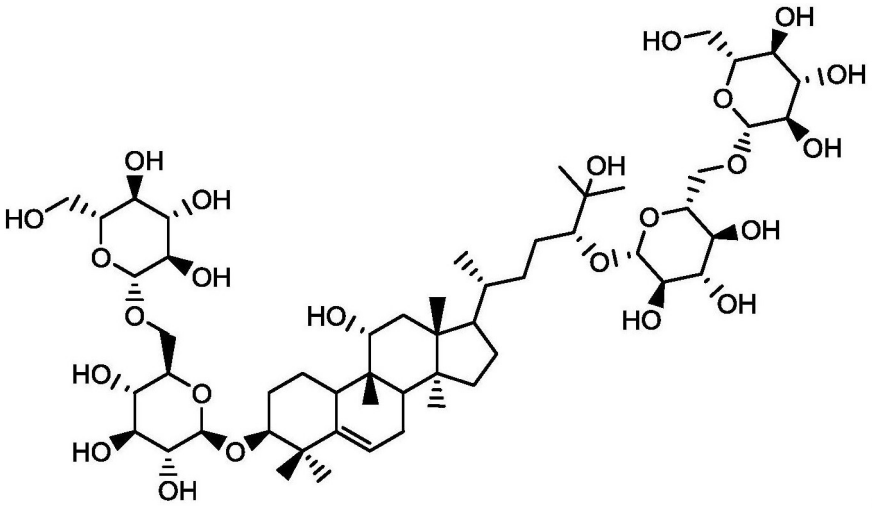
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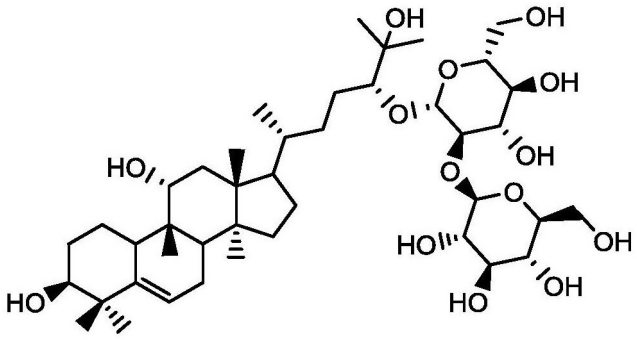
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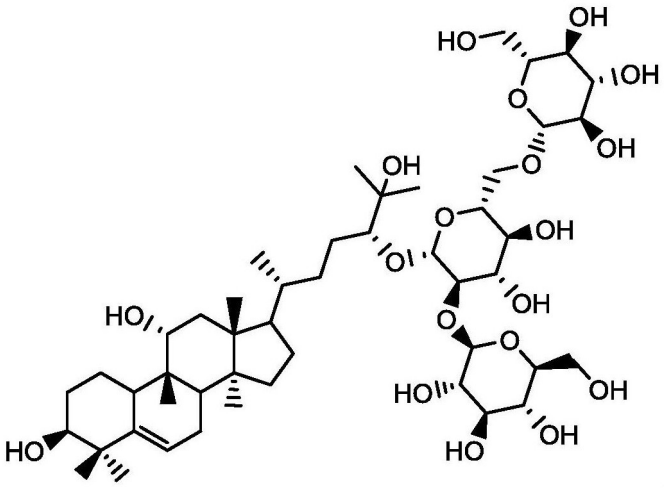
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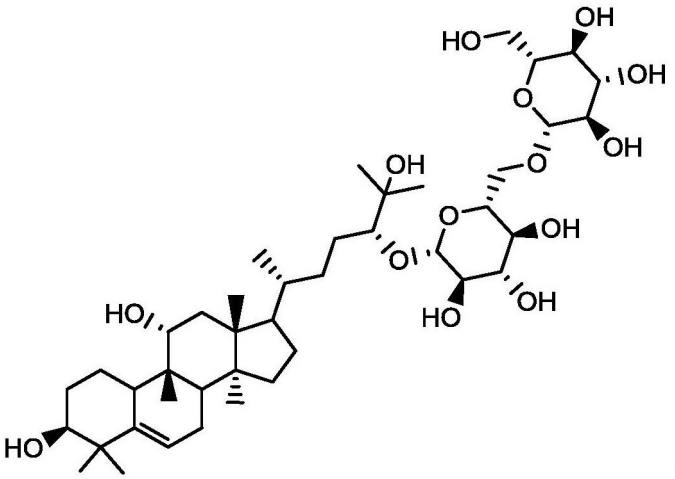
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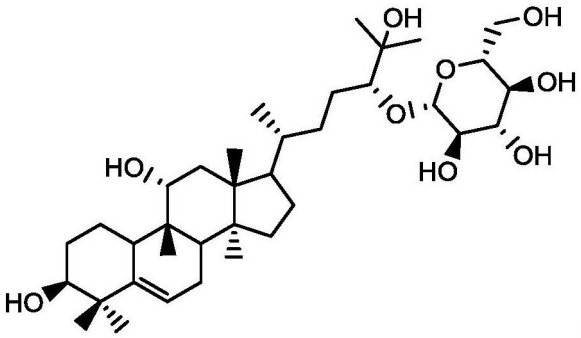
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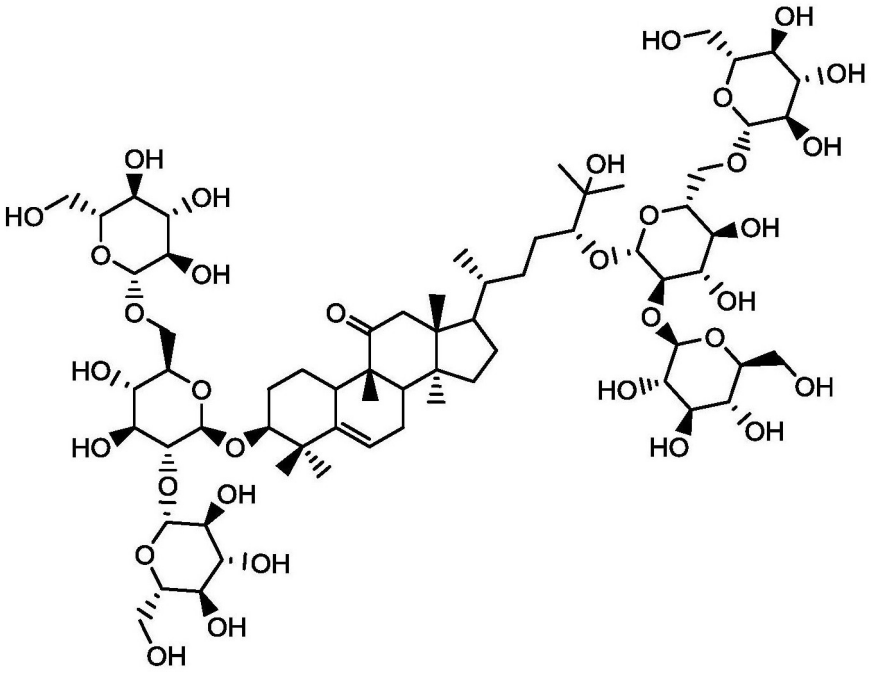
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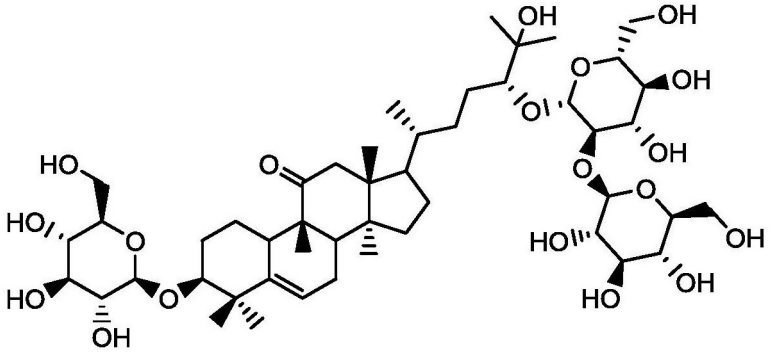
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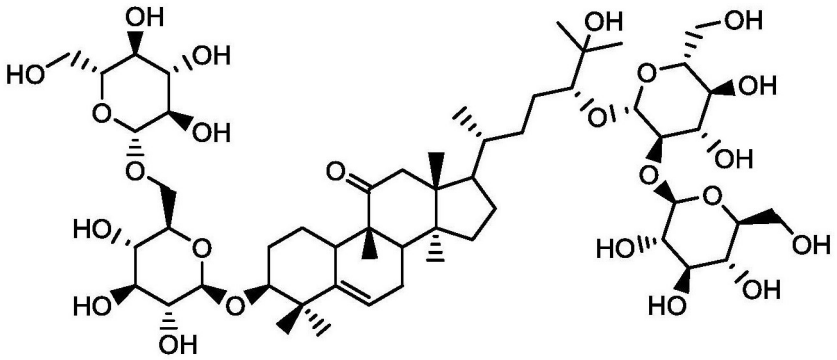
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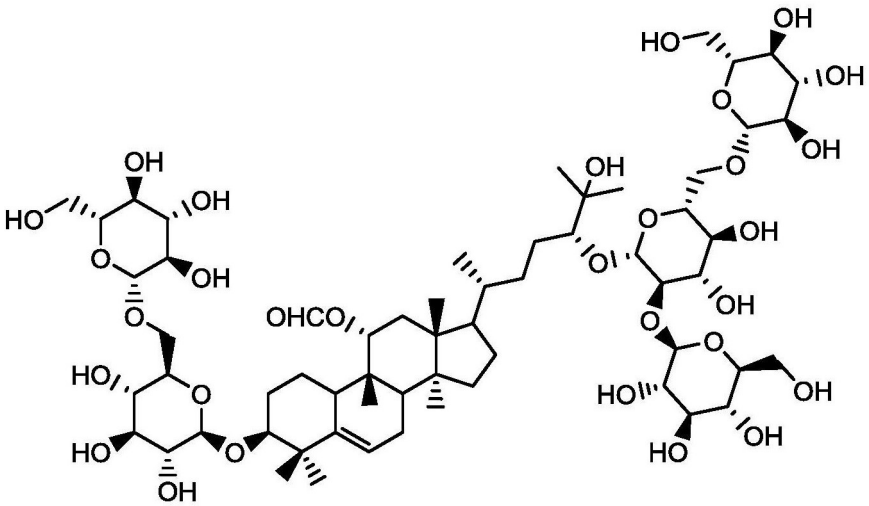
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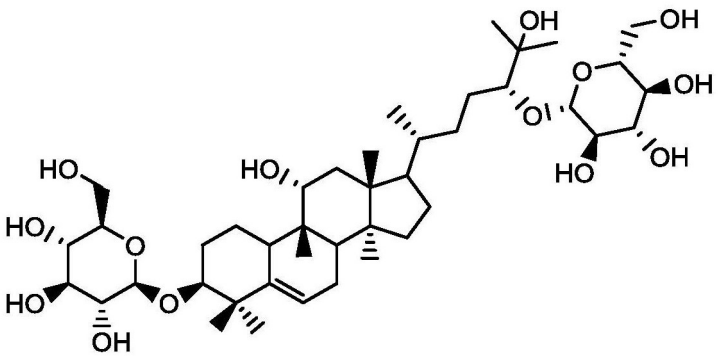
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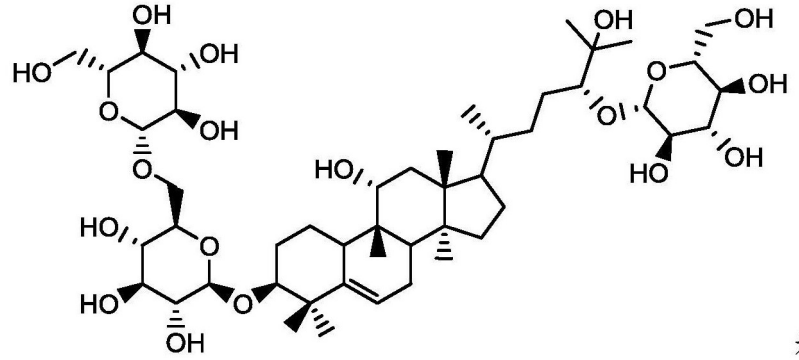
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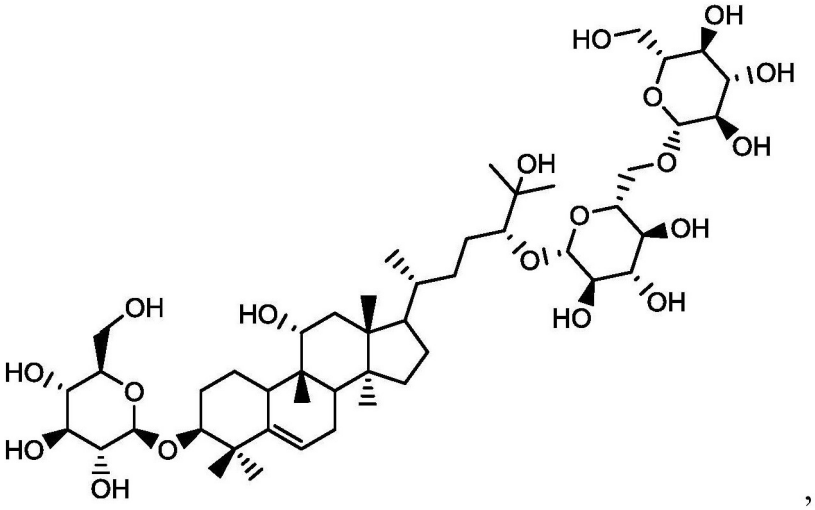
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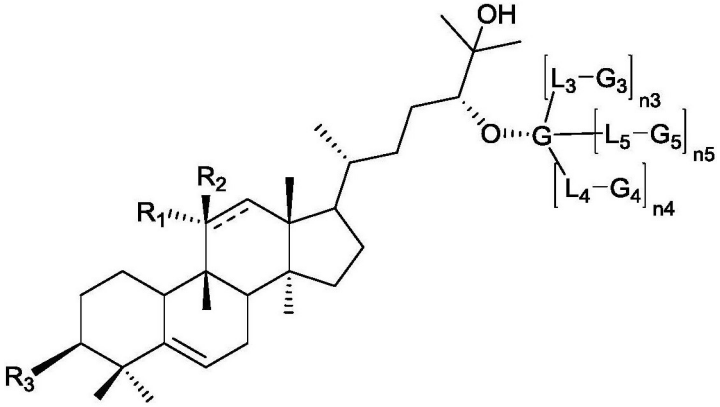
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其中所述化合物为分离的且纯化的形式。

2.具有式(I)结构的化合物：



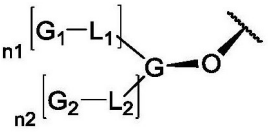
(I)

或其盐，其中：

------表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和



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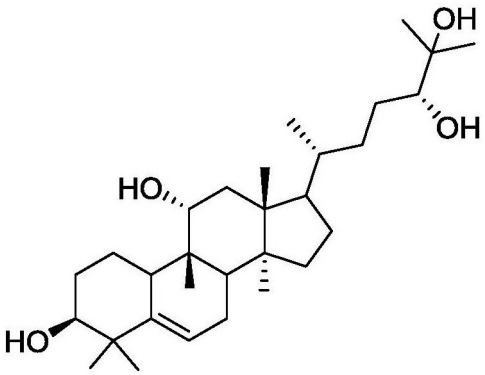
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数；

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分；

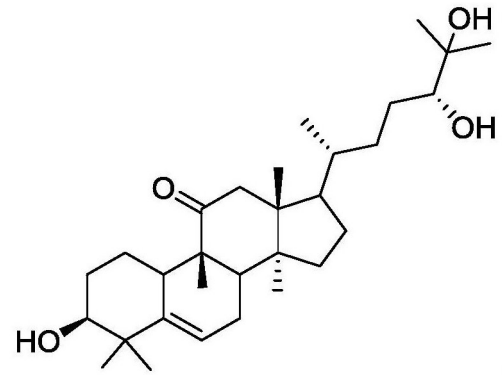
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键；以及

当------为碳-碳双键时，R_1不存在；

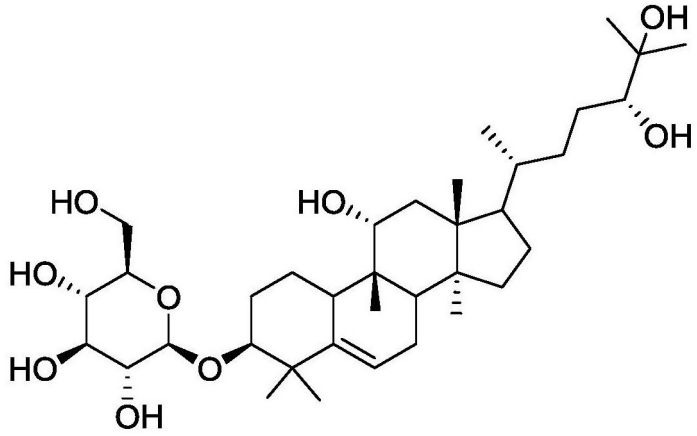
条件是式(I)不选自：



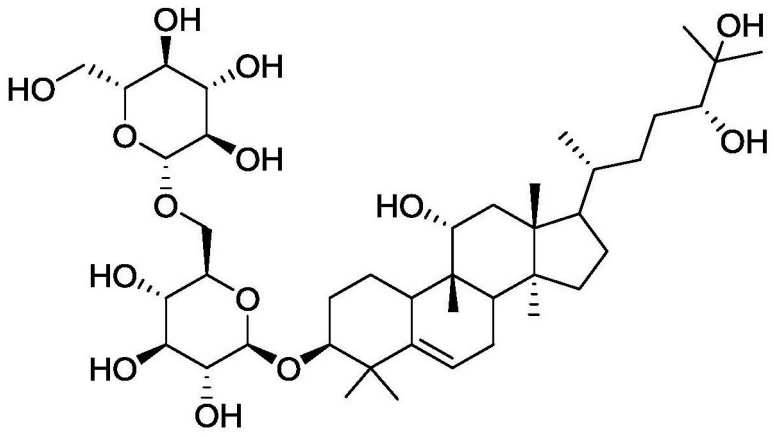
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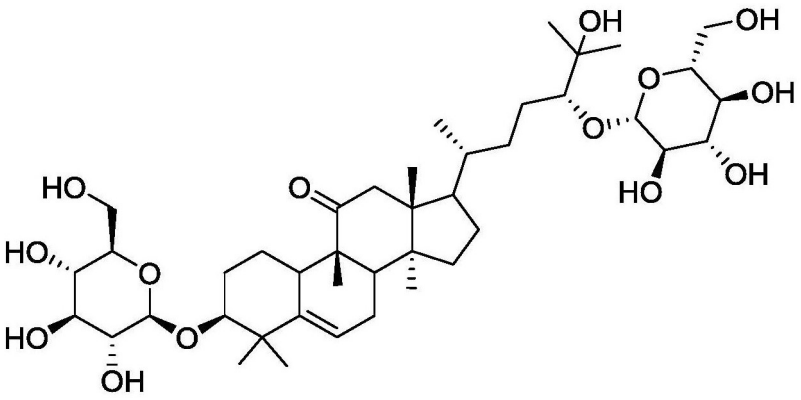
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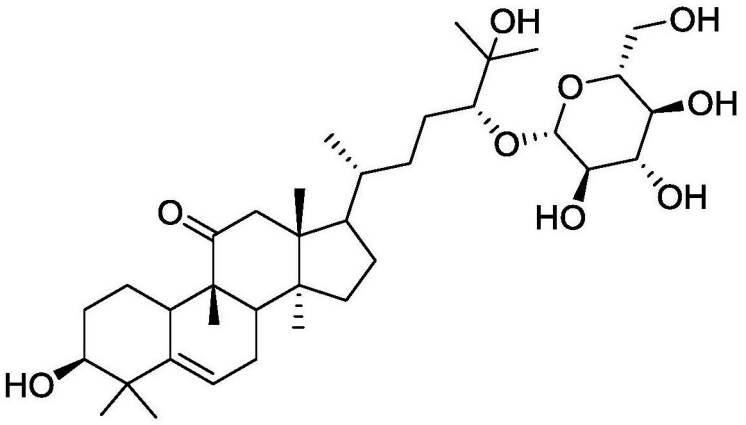
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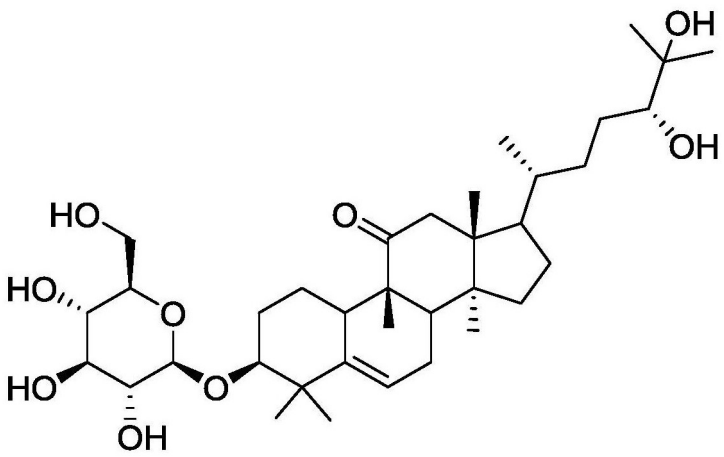
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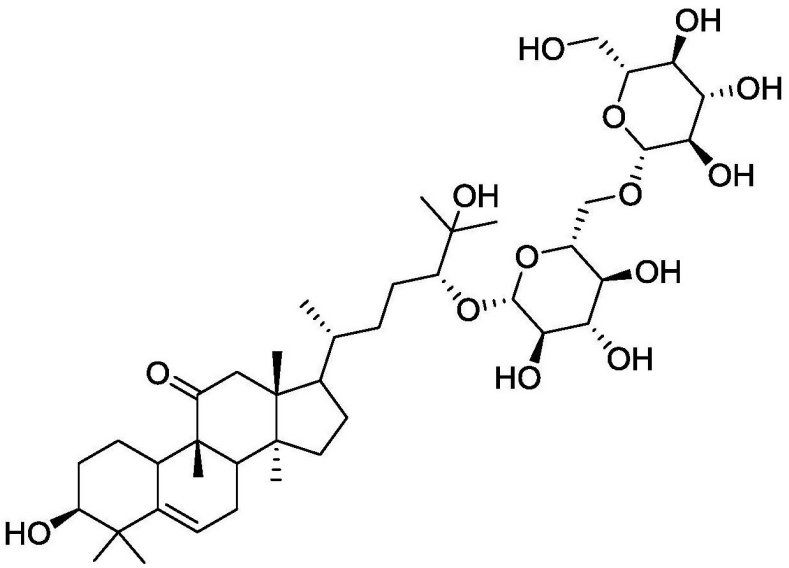
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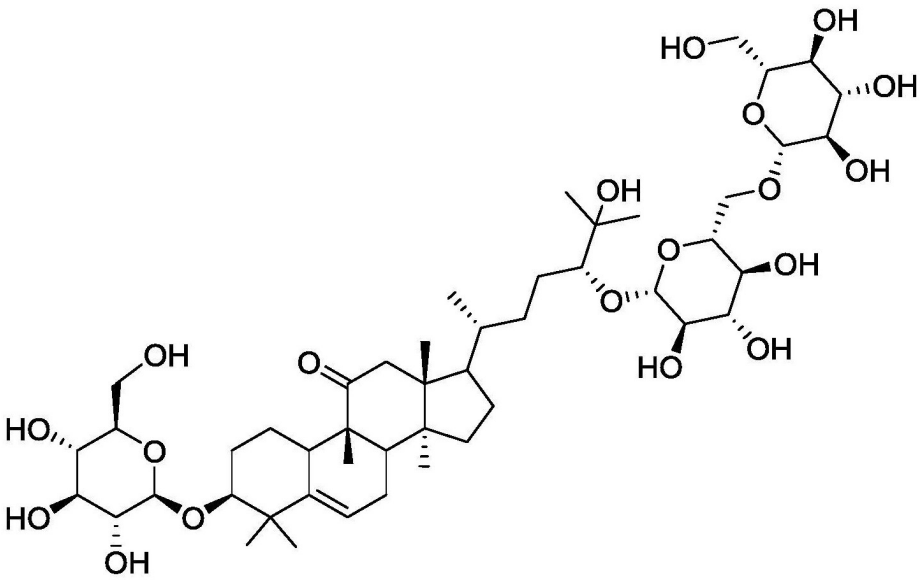
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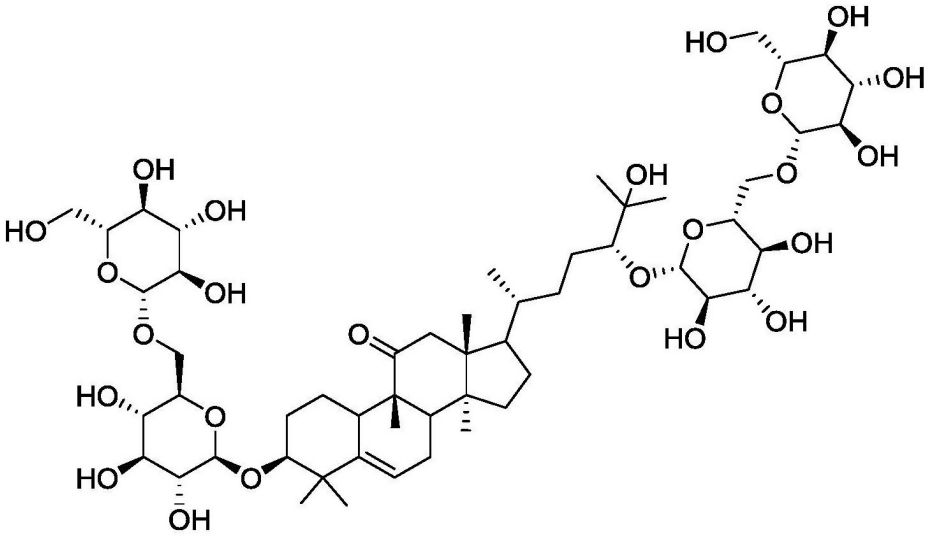
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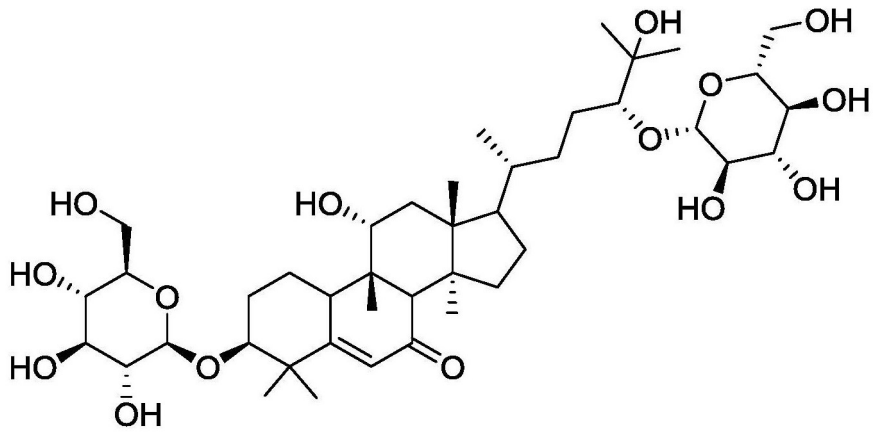
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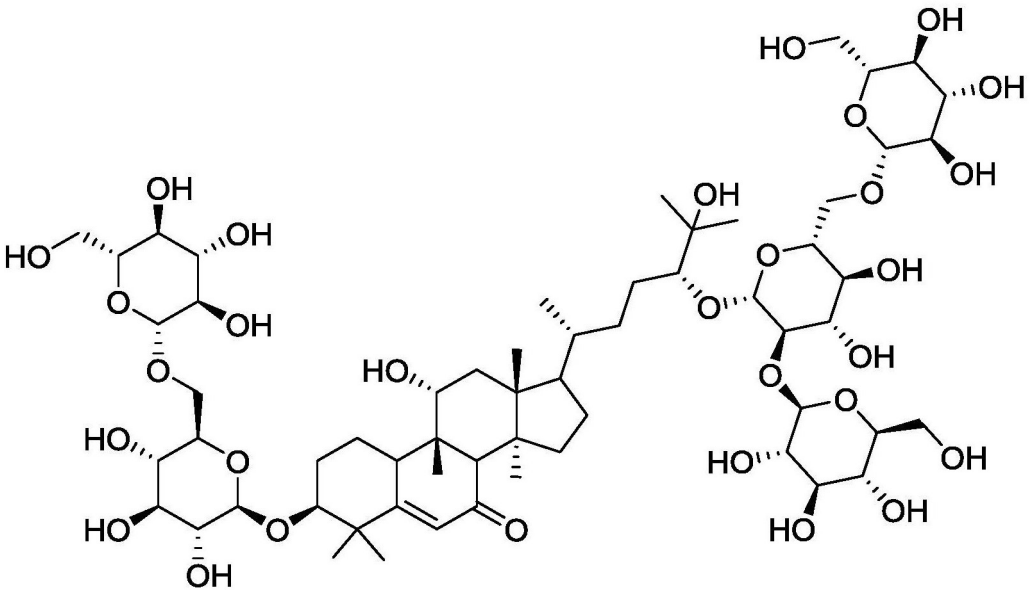
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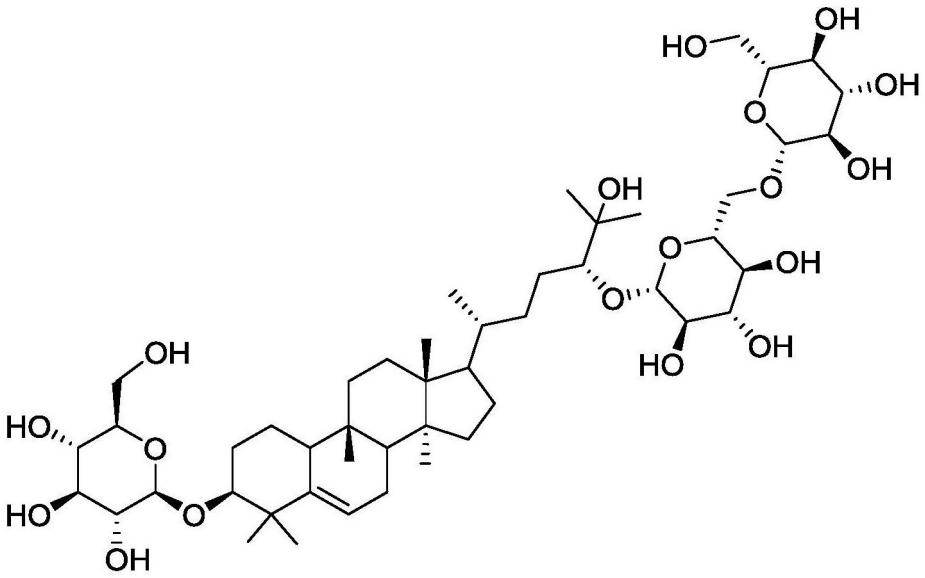
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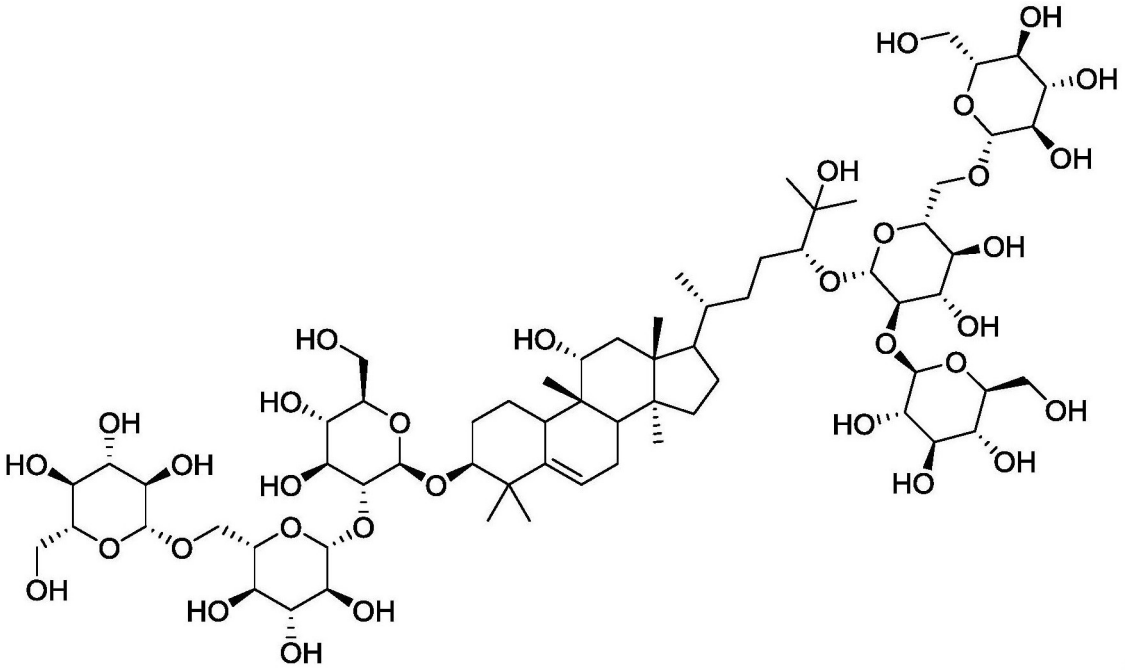
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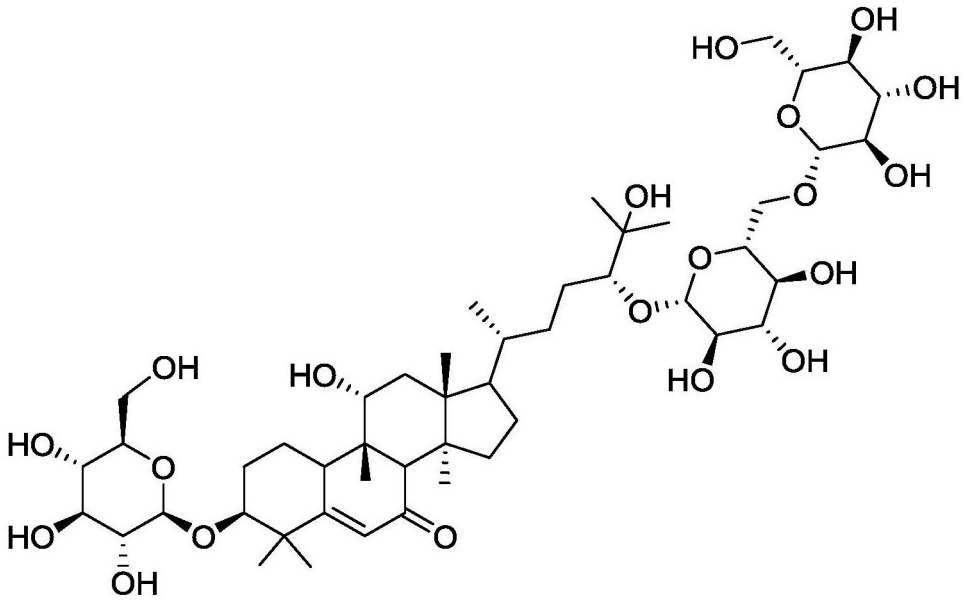
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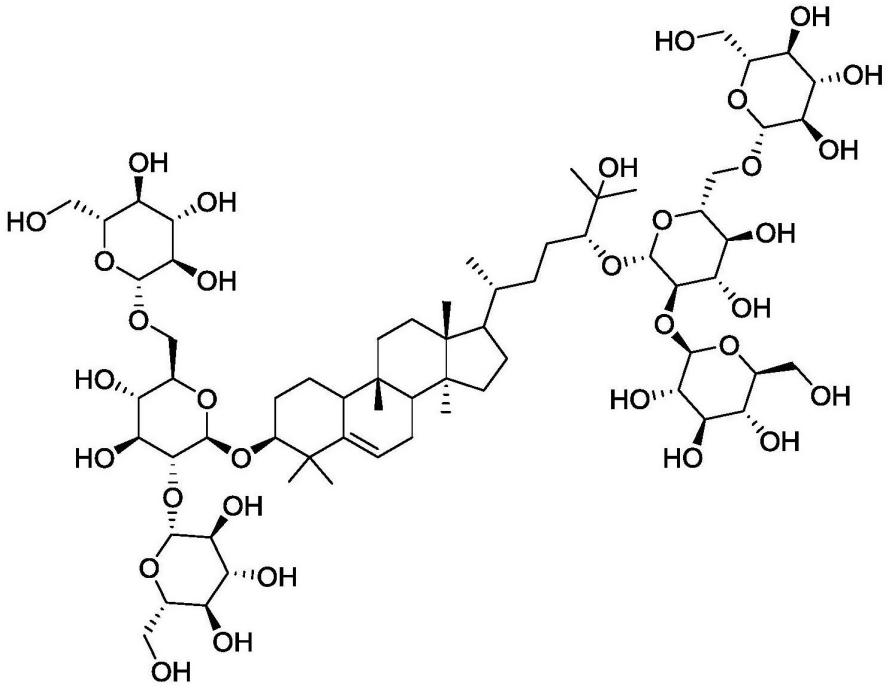
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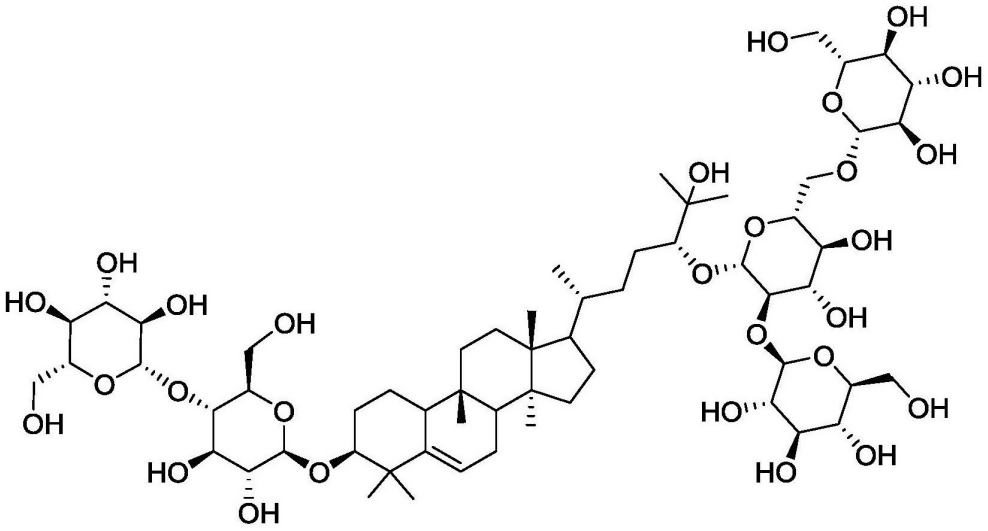
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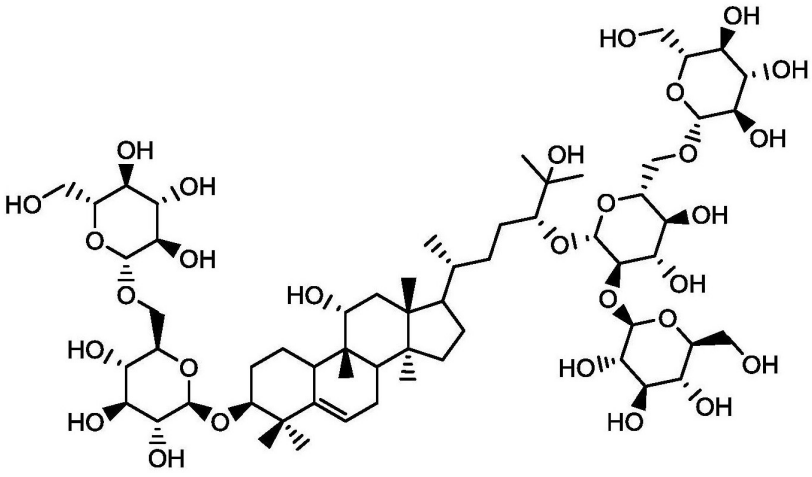
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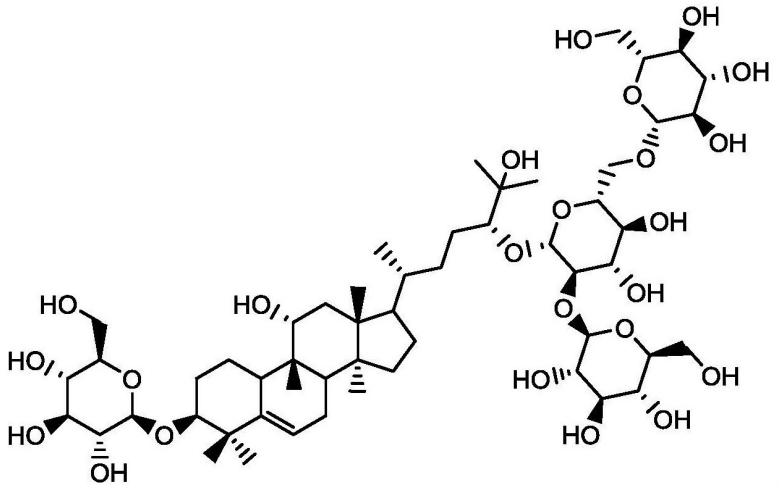
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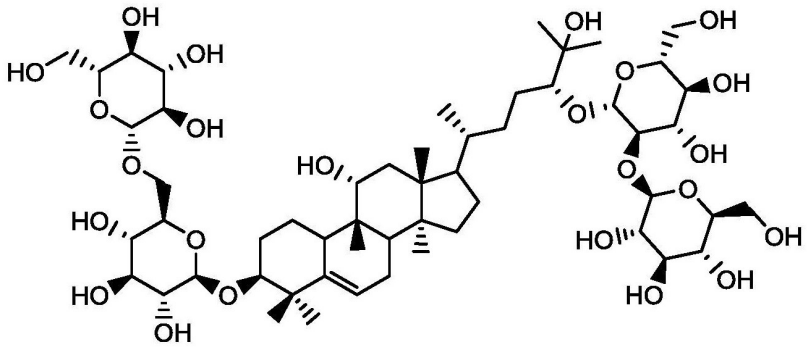
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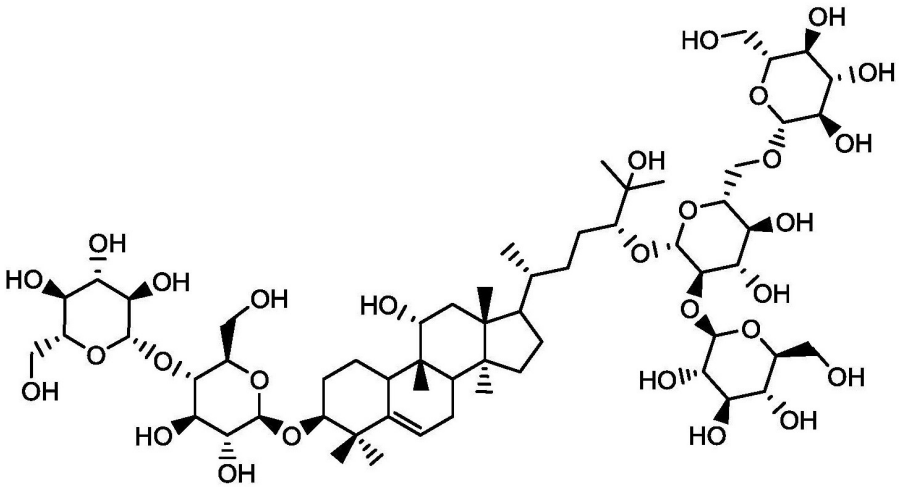
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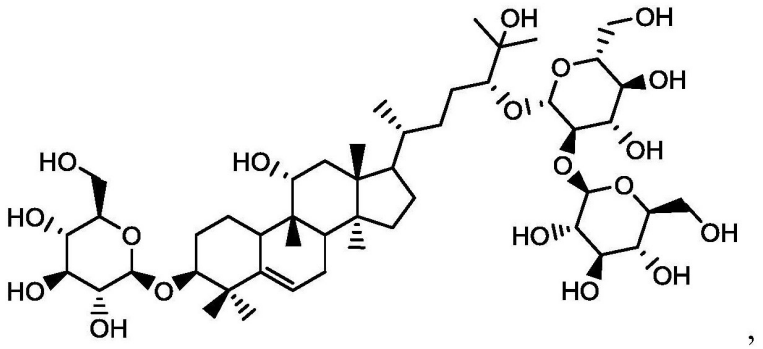
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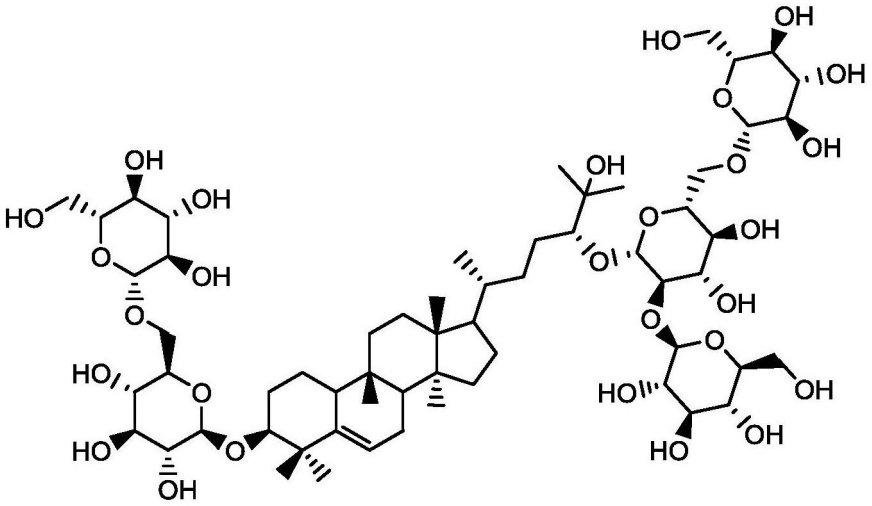
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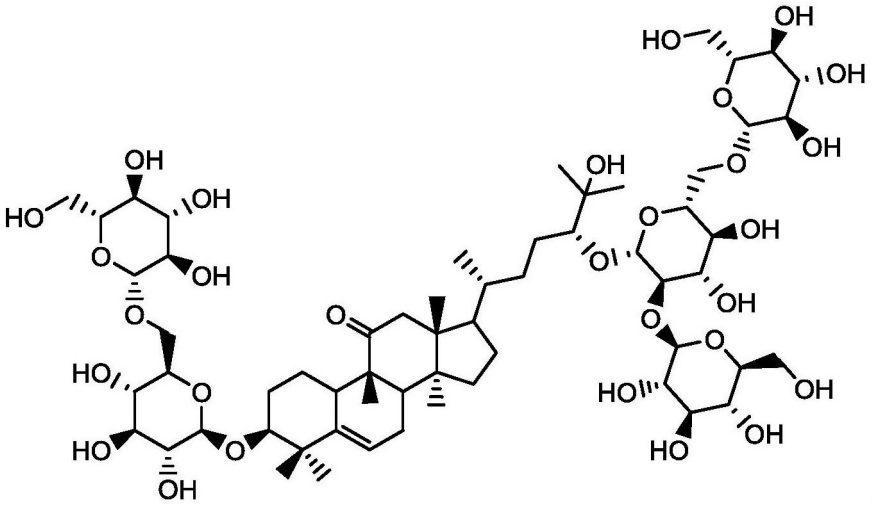
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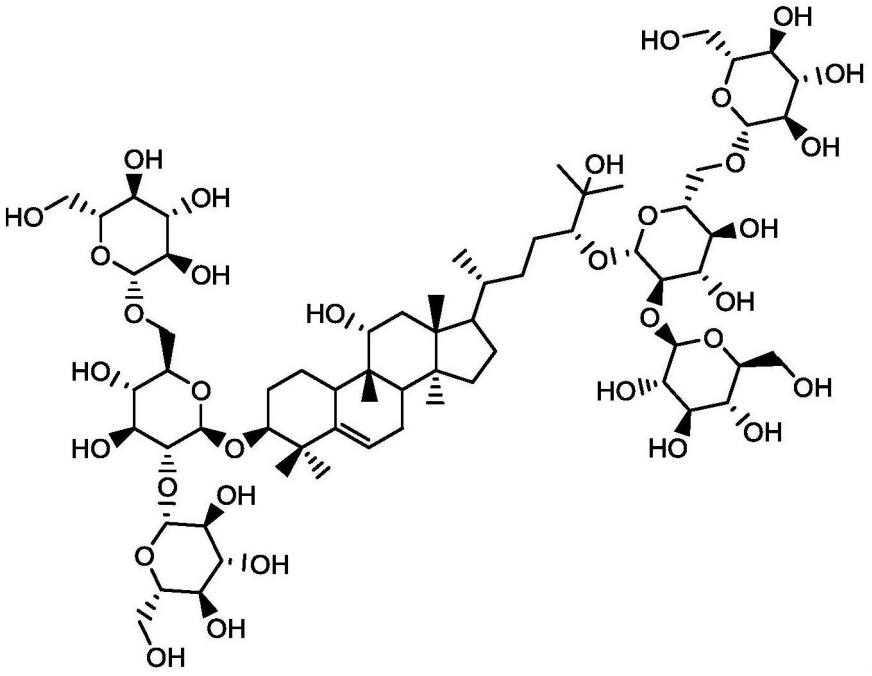
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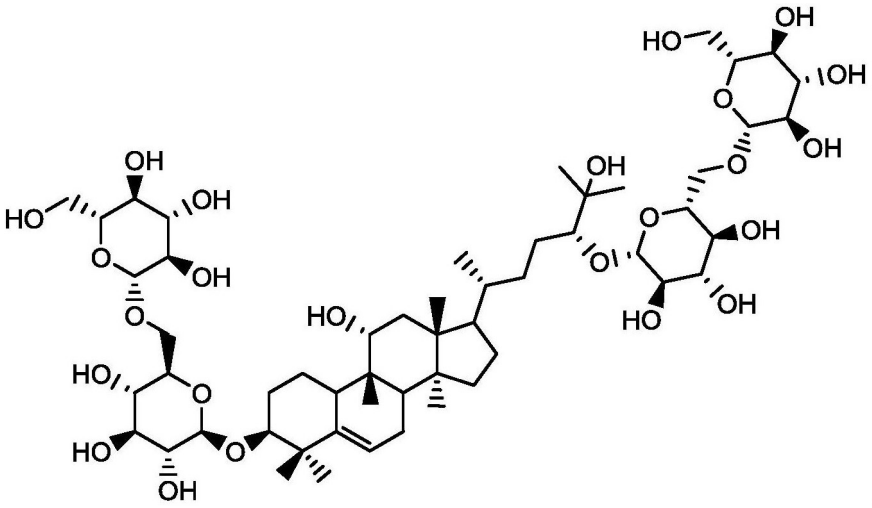
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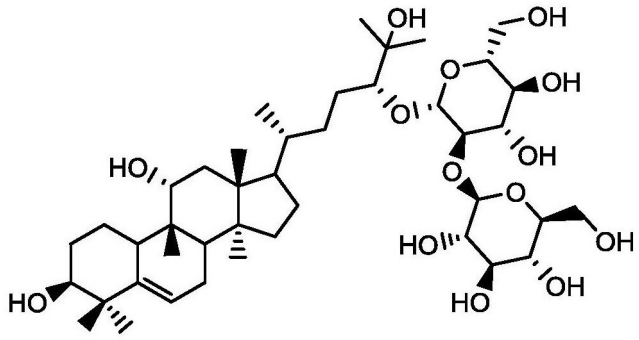
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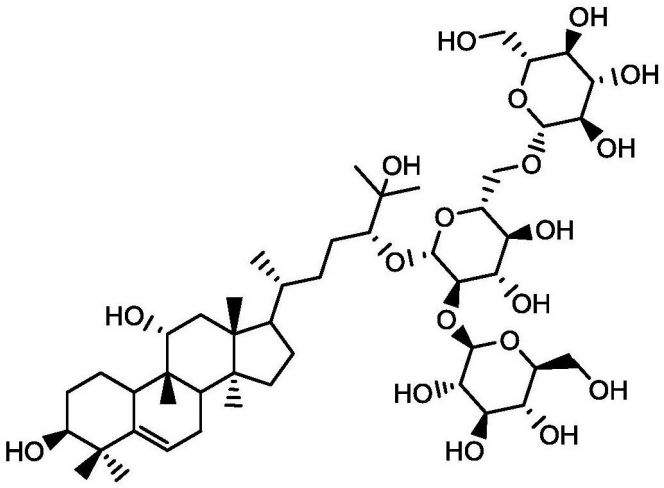
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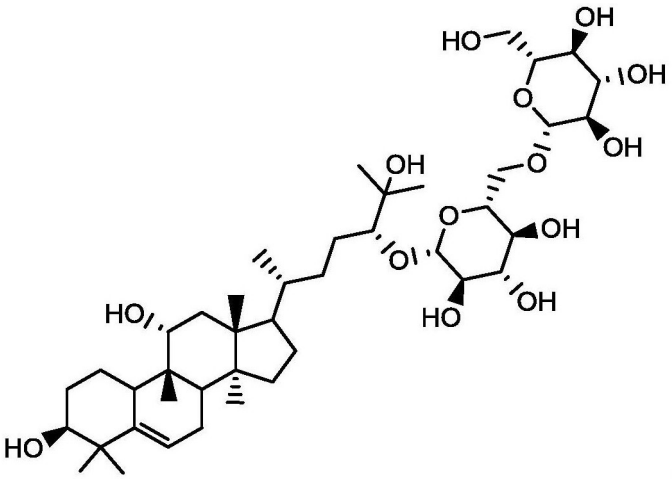
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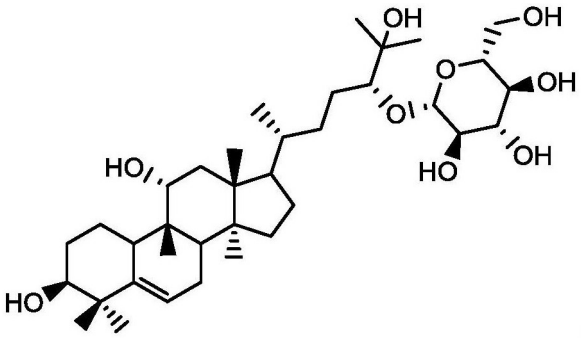
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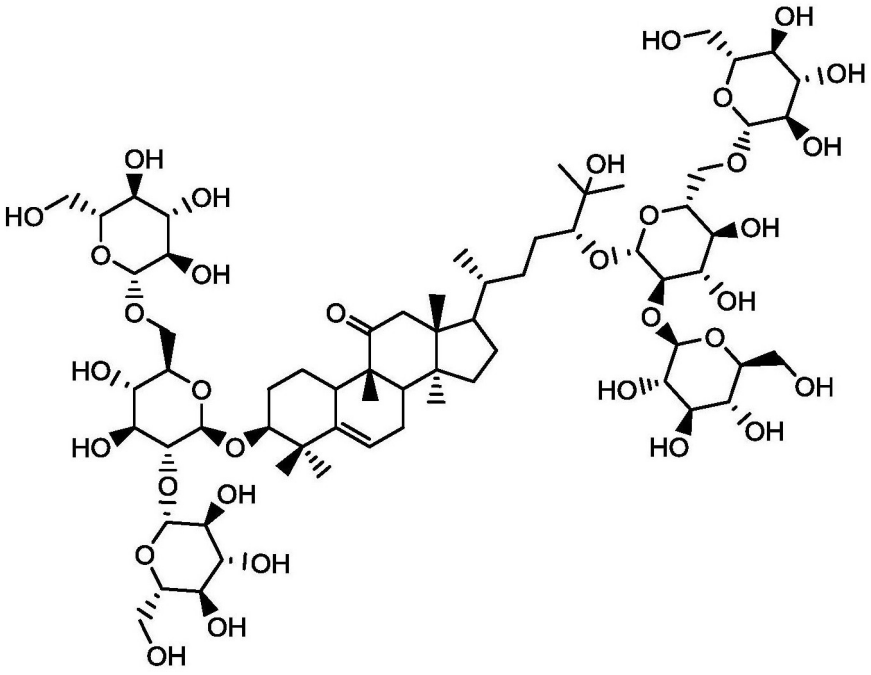
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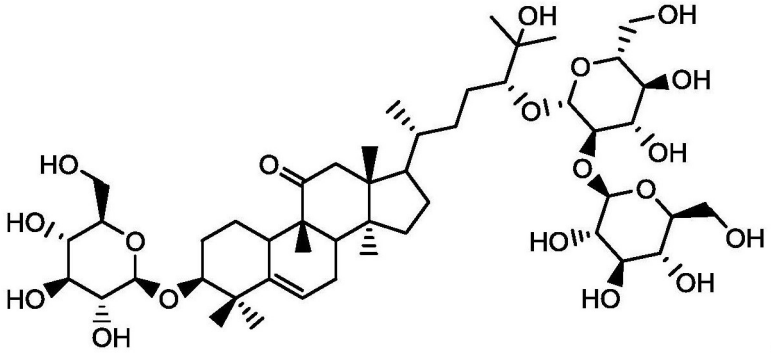
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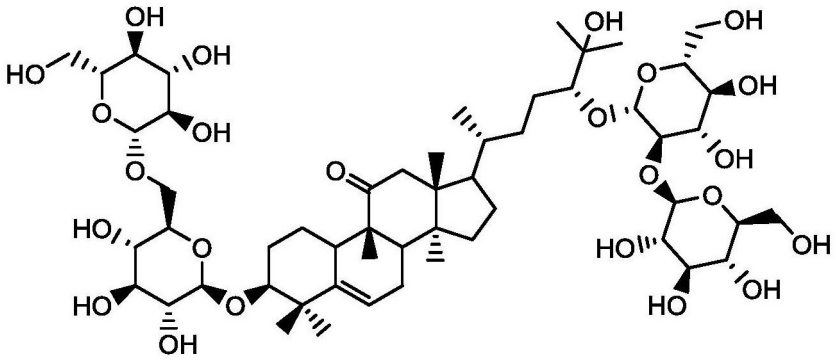
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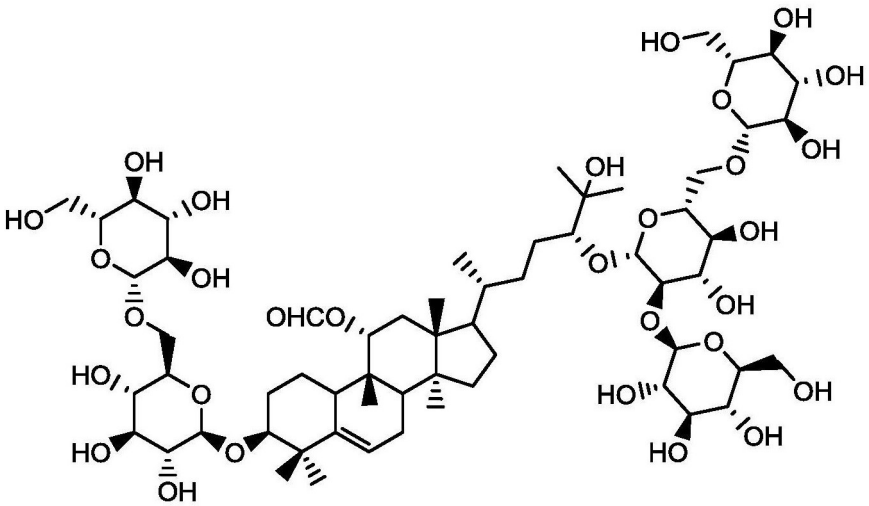
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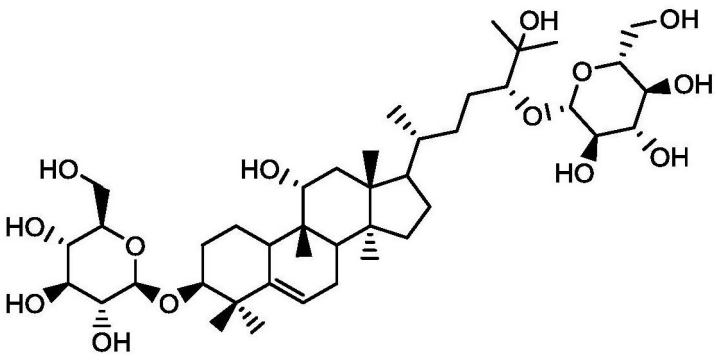
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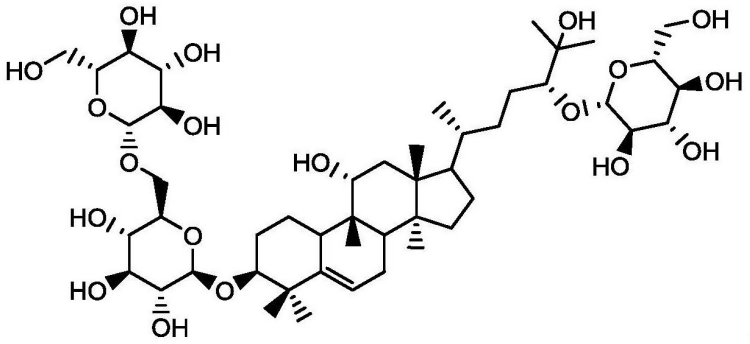
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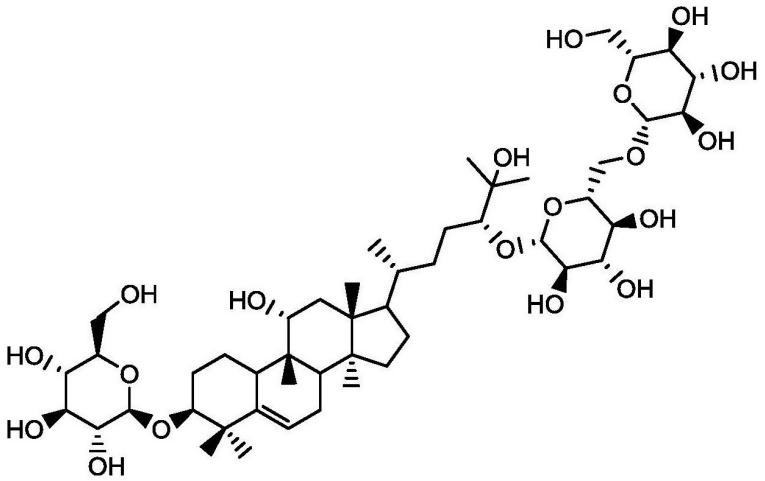
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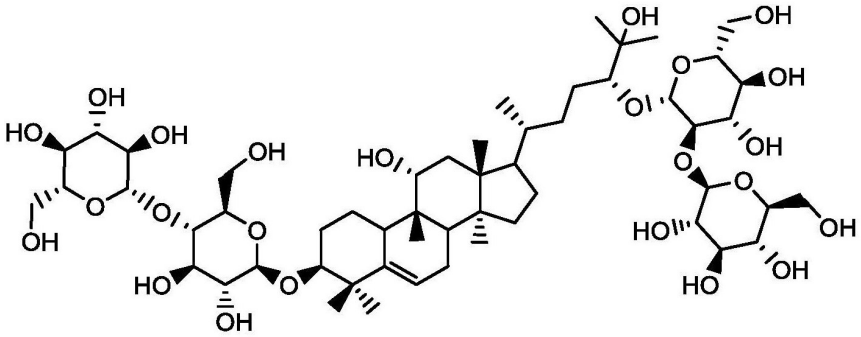
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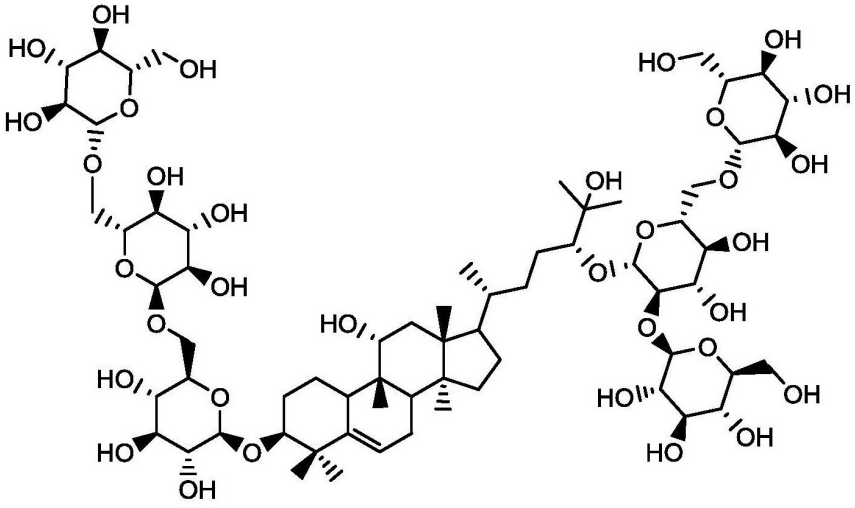
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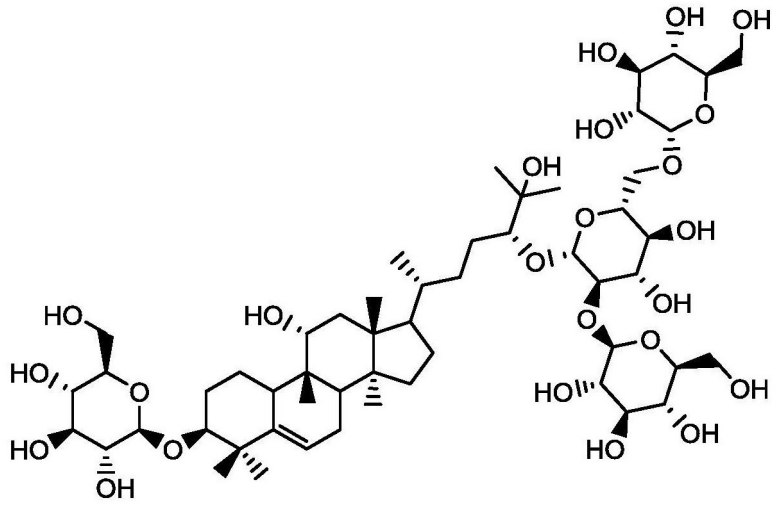
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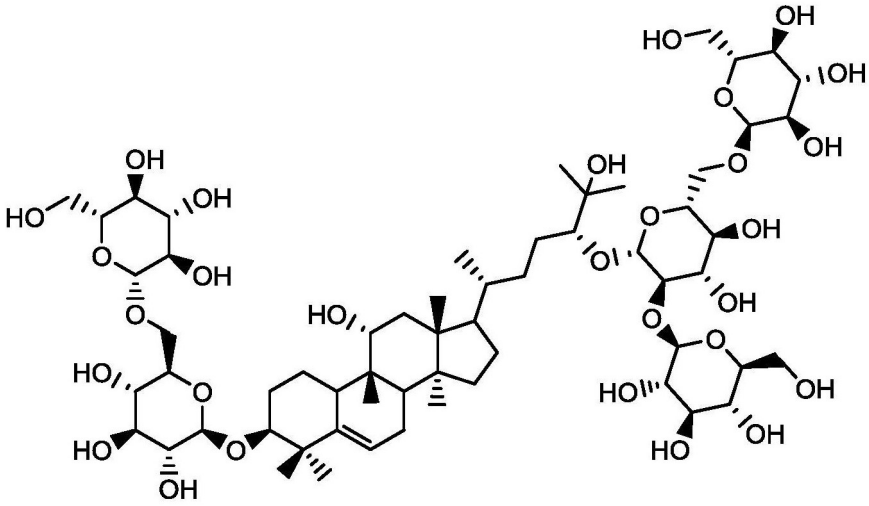
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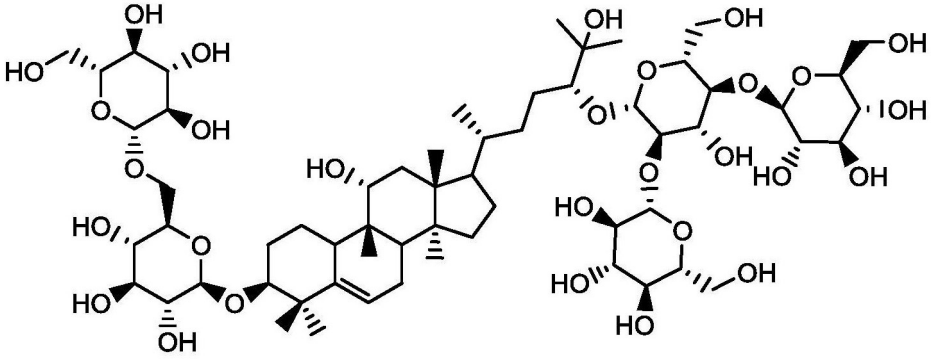
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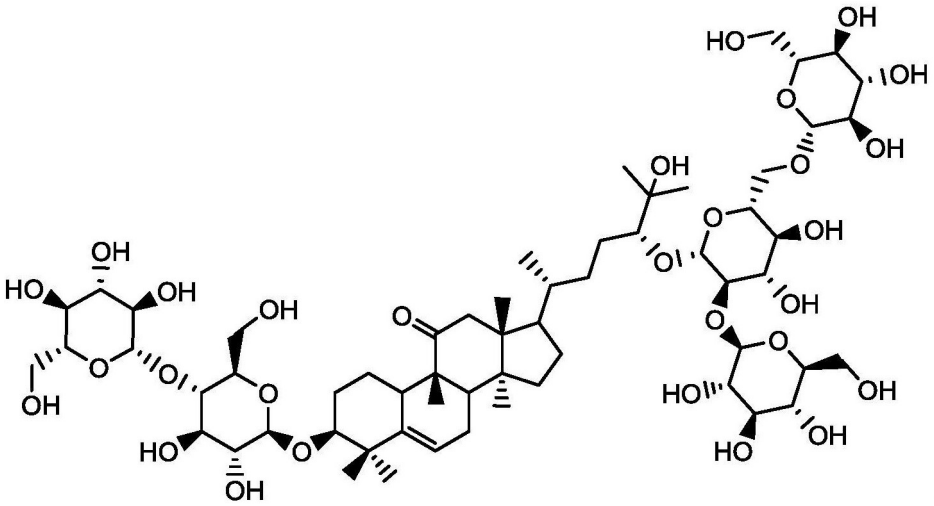
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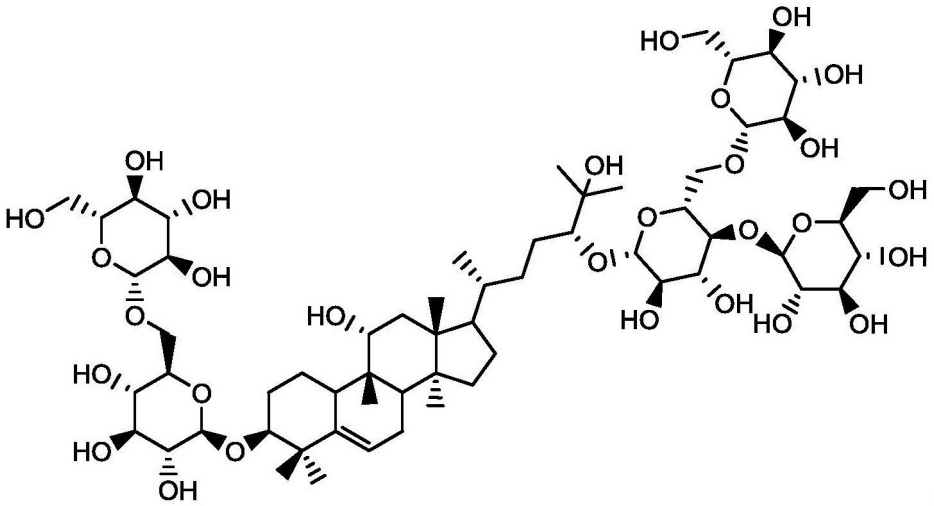
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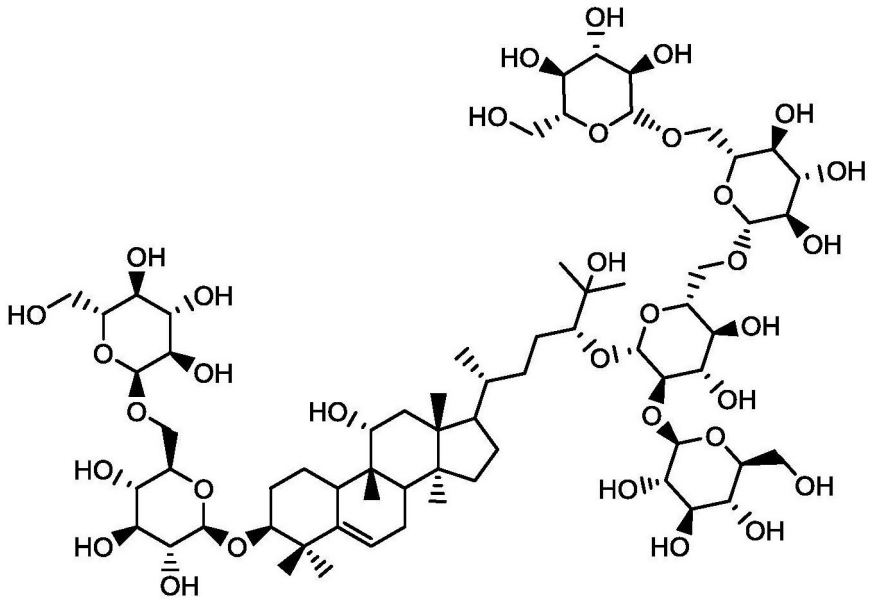
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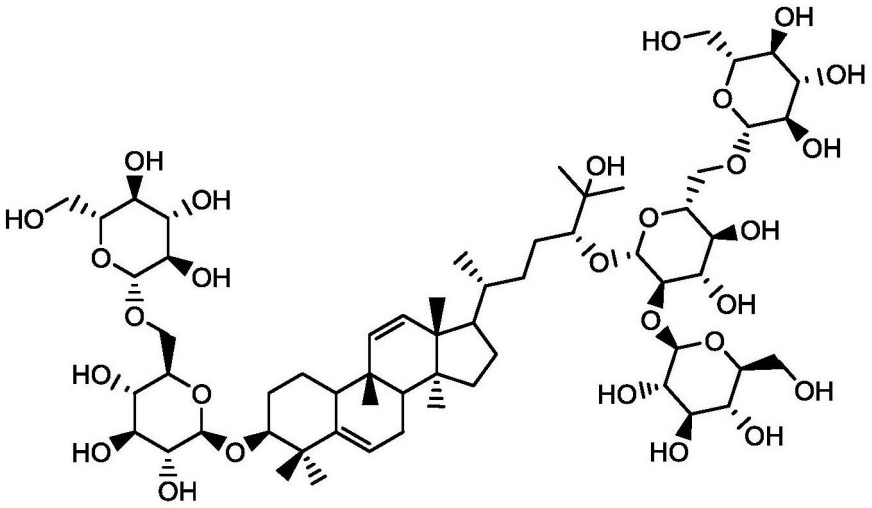
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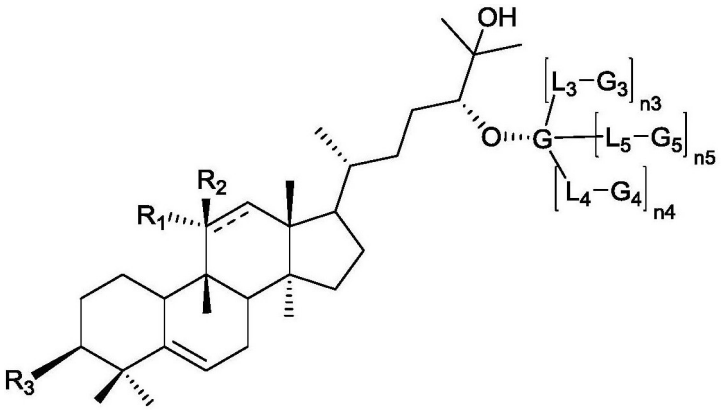


和



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3.组合物,包含一种或多种具有式(I)结构的化合物:

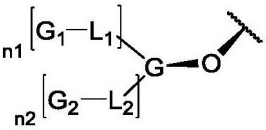


(I)

或其盐,其中:

------表示碳-碳单键或碳-碳双键;

R_1不存在或者为羟基,并且R_2为氢,或者R_1和R_2连同它们连接的碳原子一起形成氧代基团;

R_3选自-OH和  ;

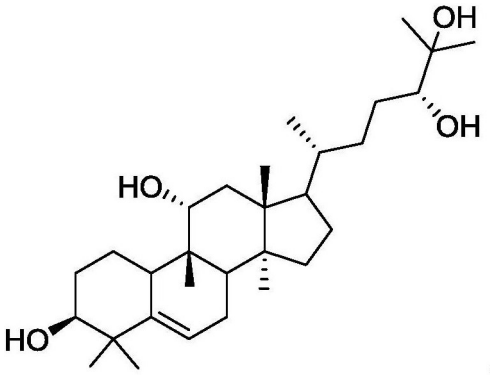
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数;

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分;

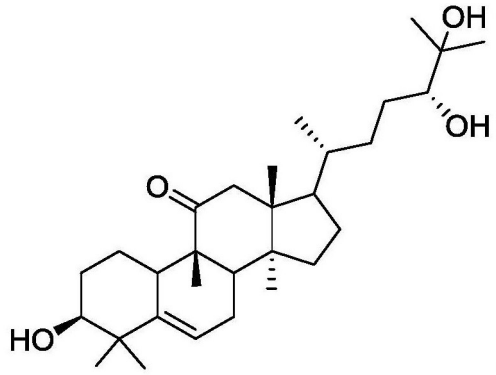
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键;以及

当------为碳-碳双键时,R_1不存在;

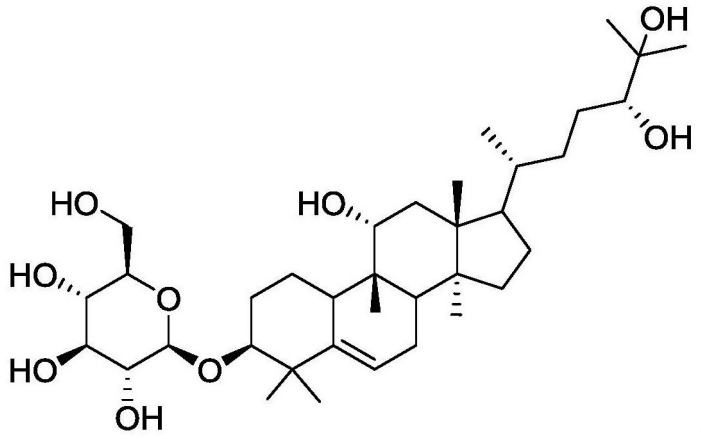
条件是式(I)不选自:


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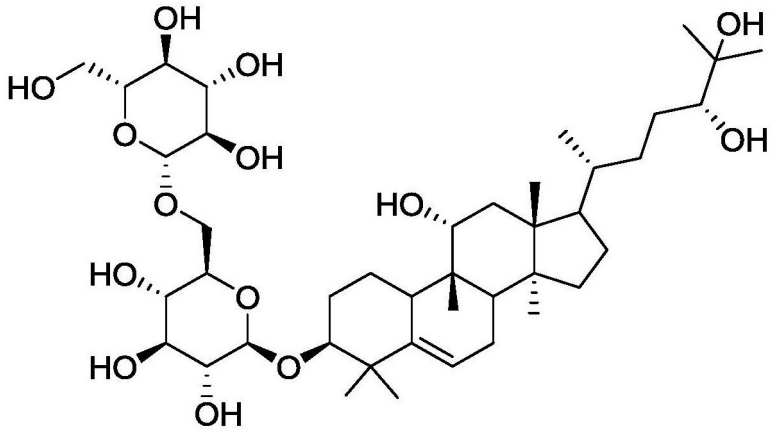
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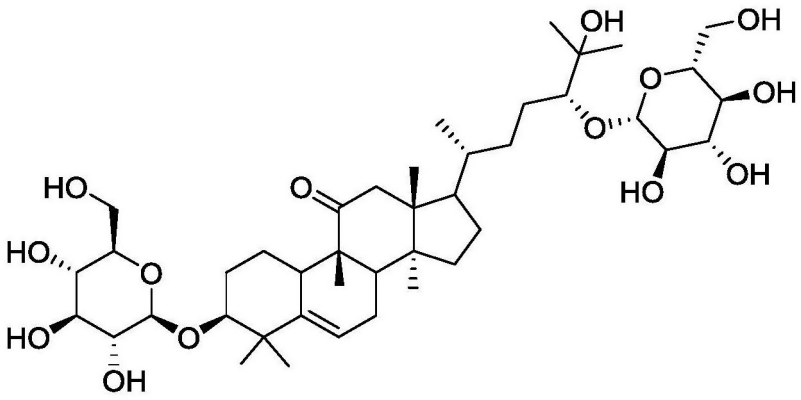
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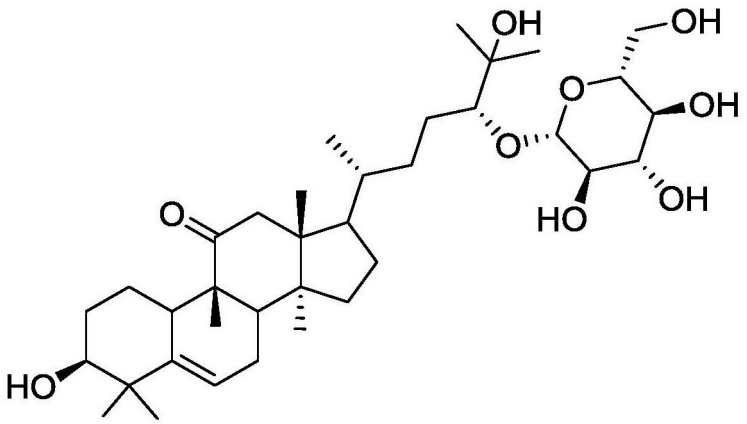
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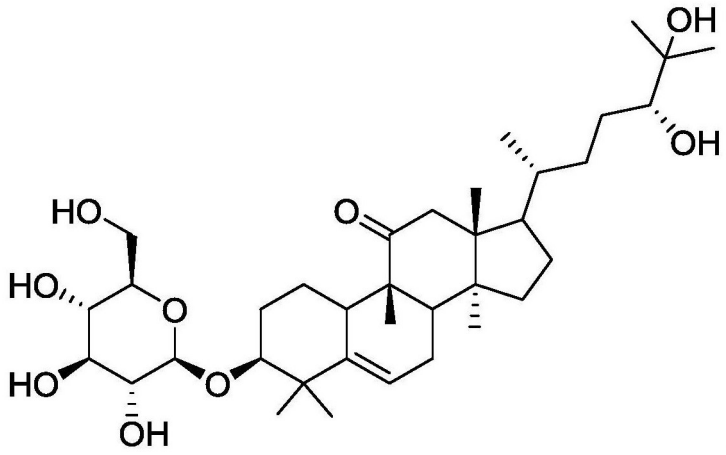
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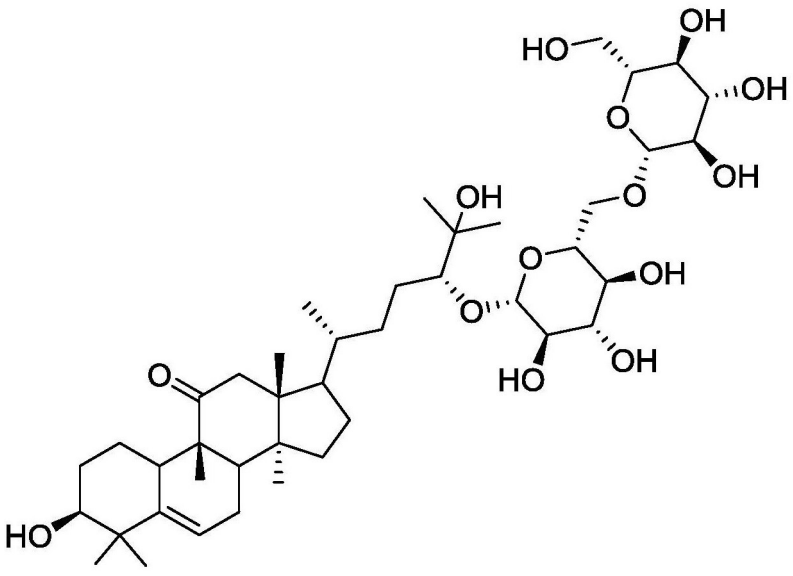
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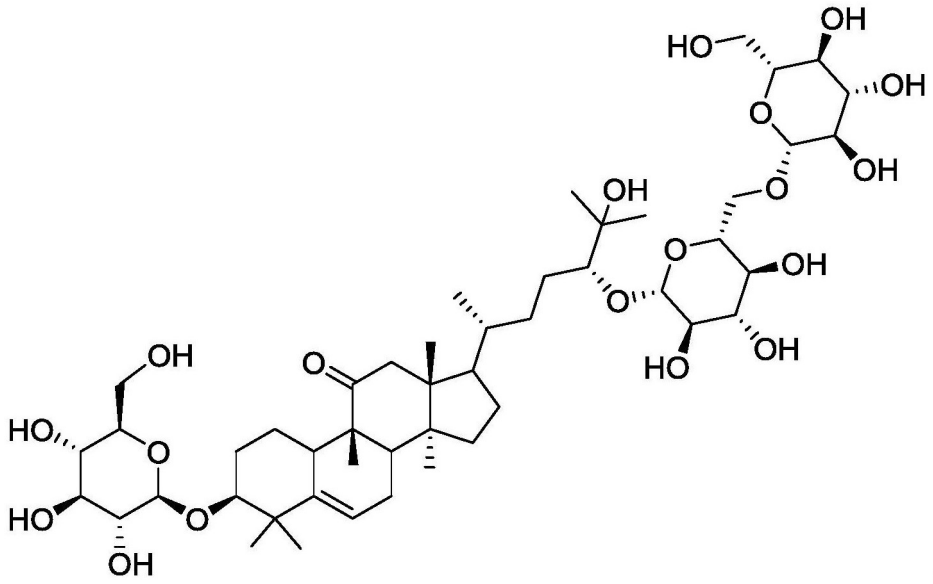
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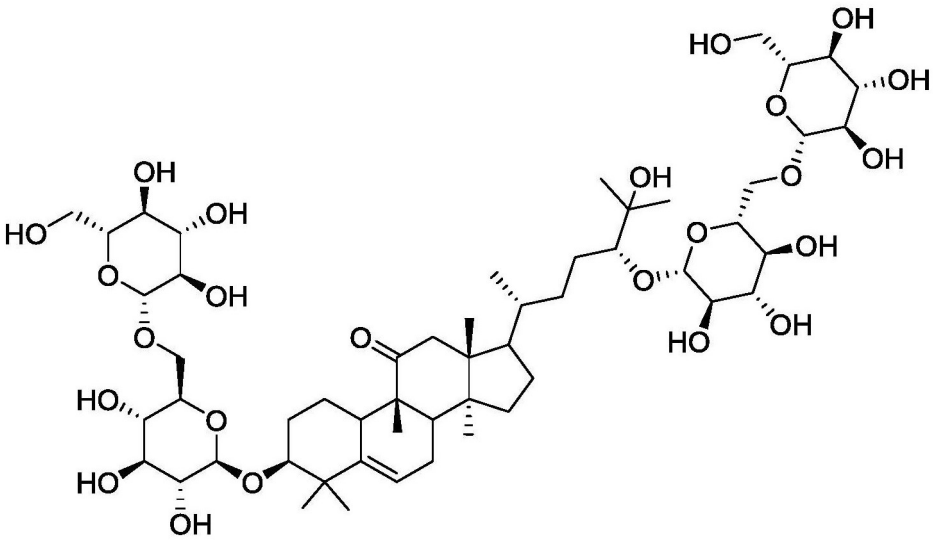
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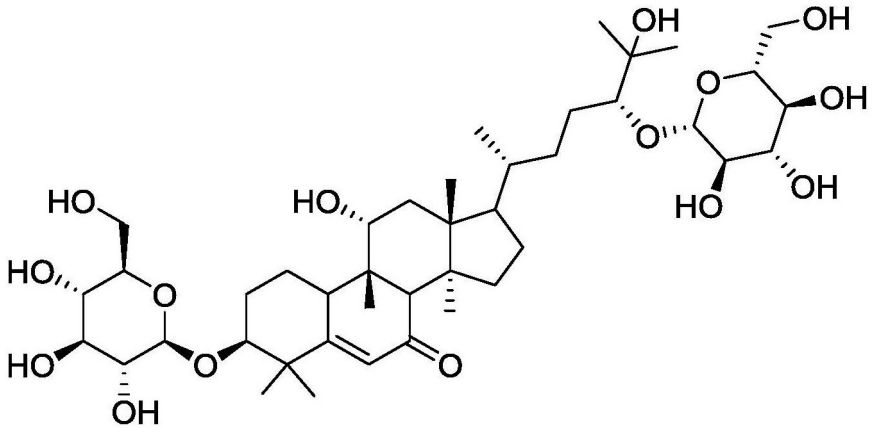
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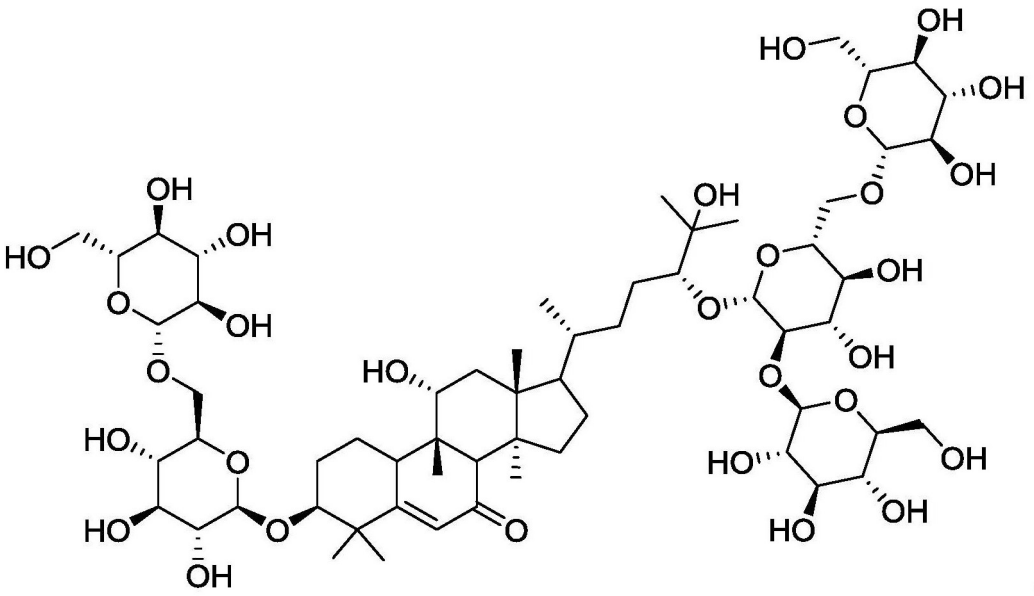
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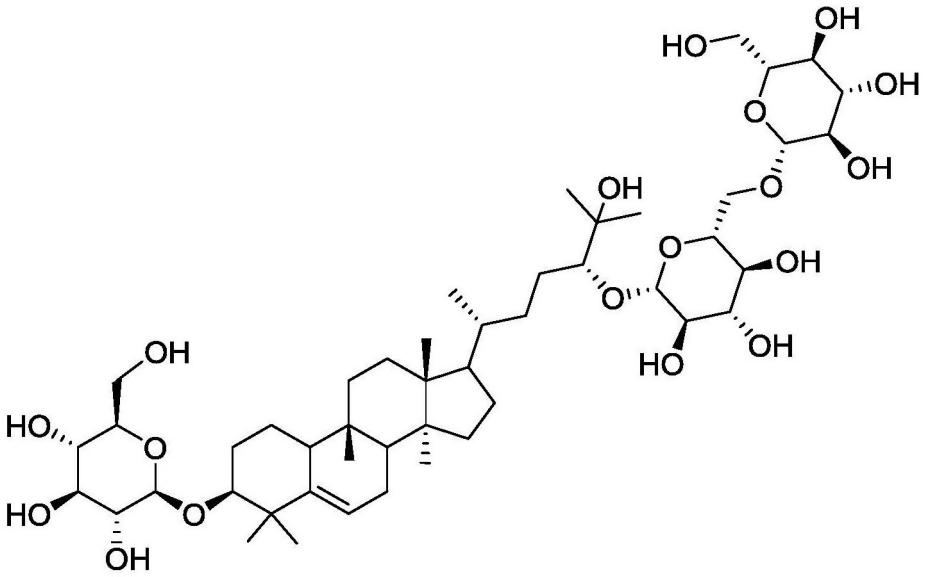
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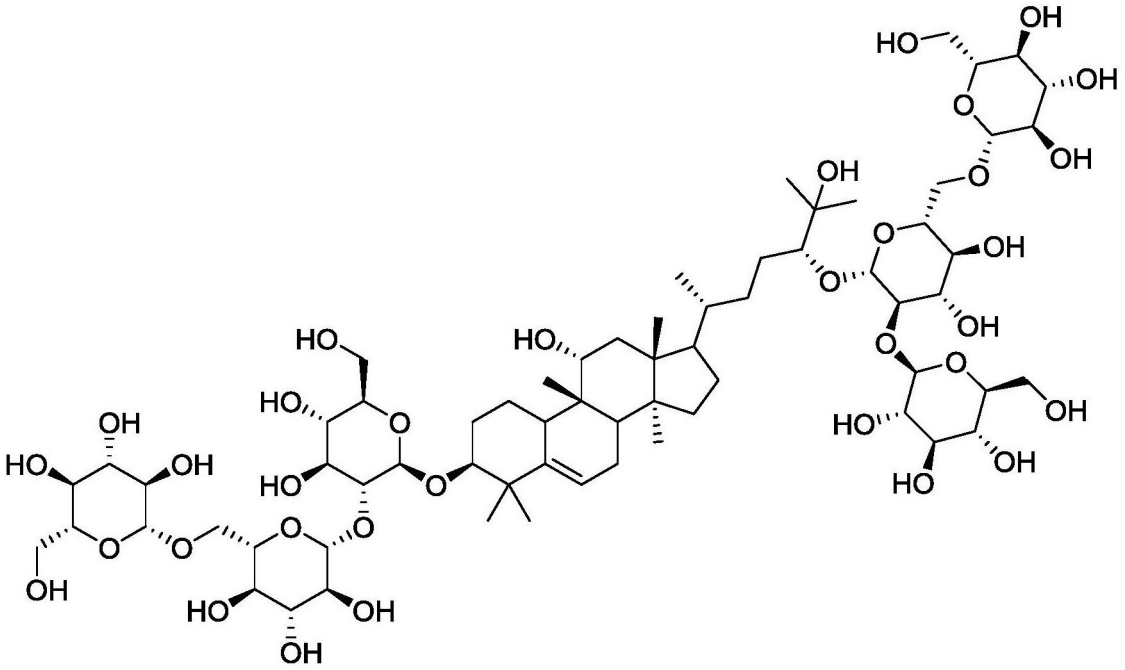
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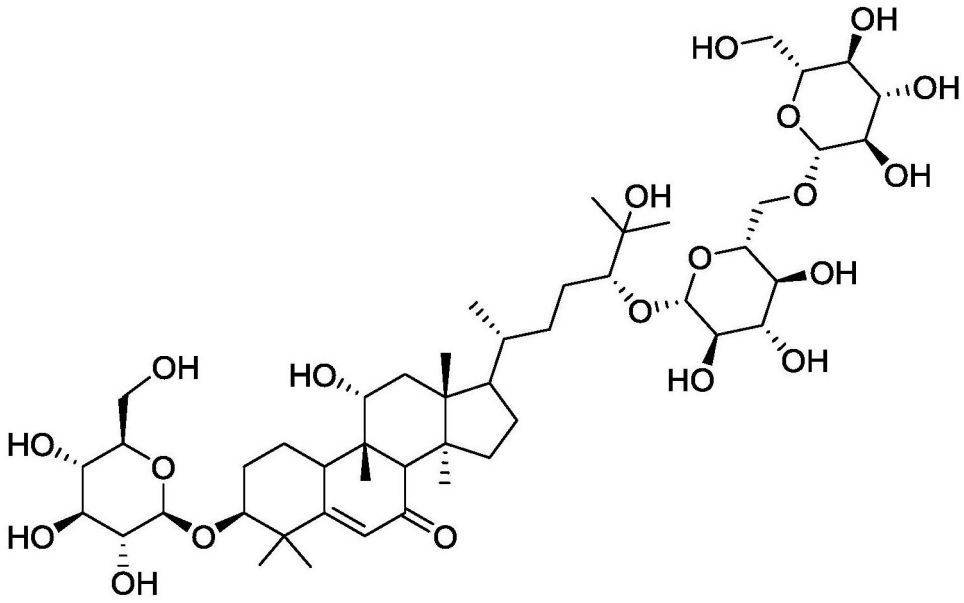
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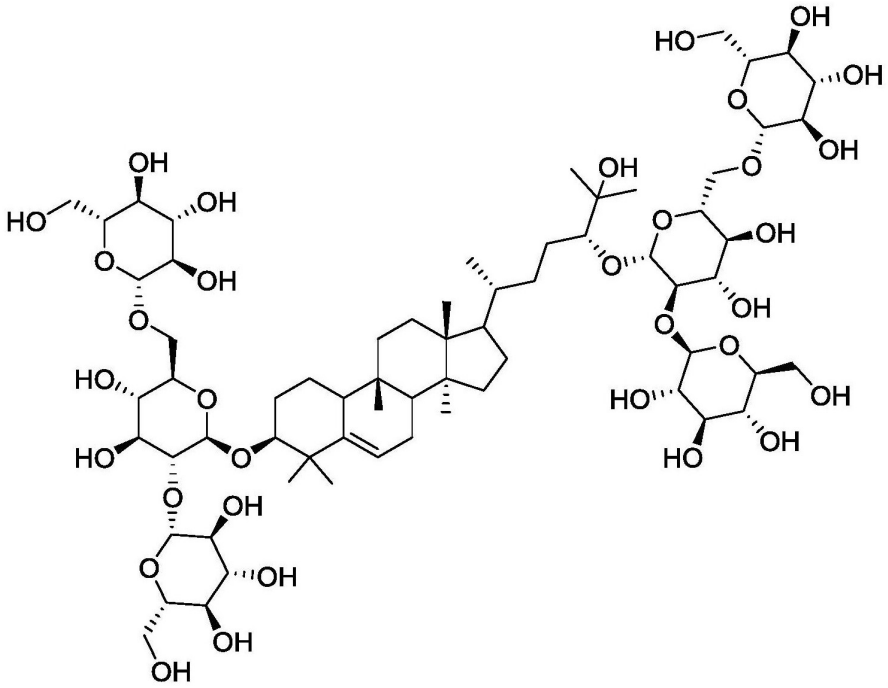
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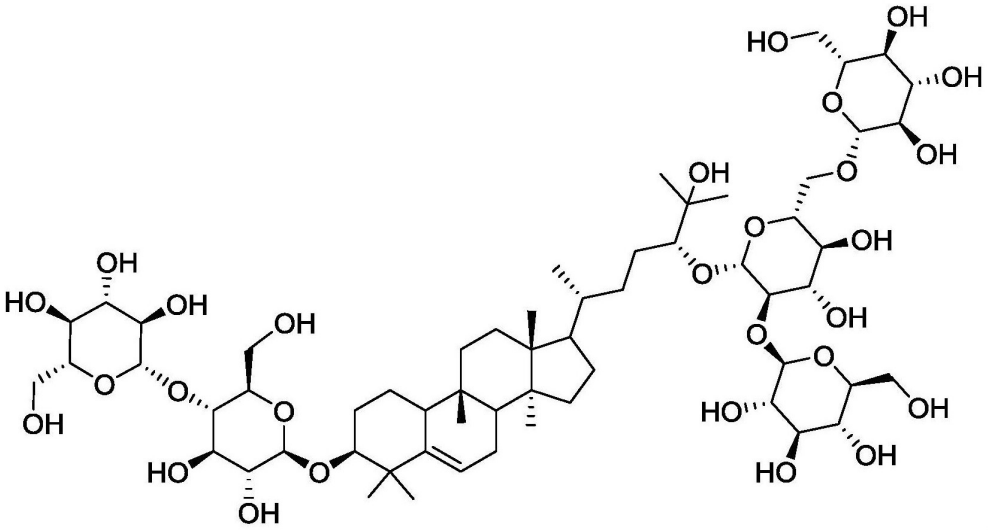
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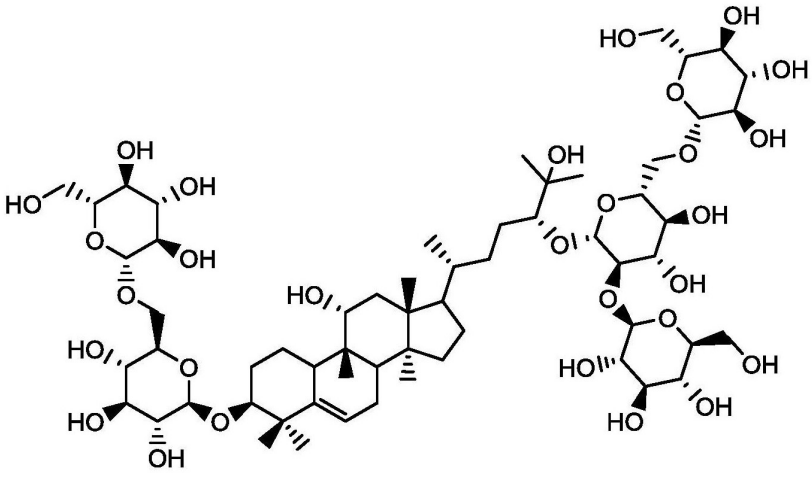
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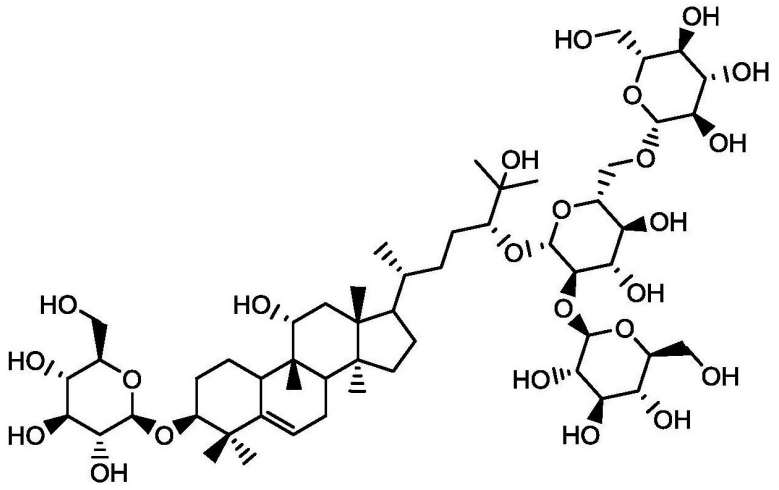
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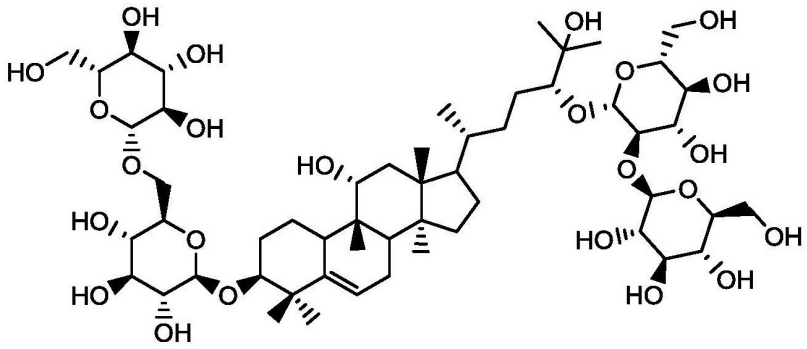
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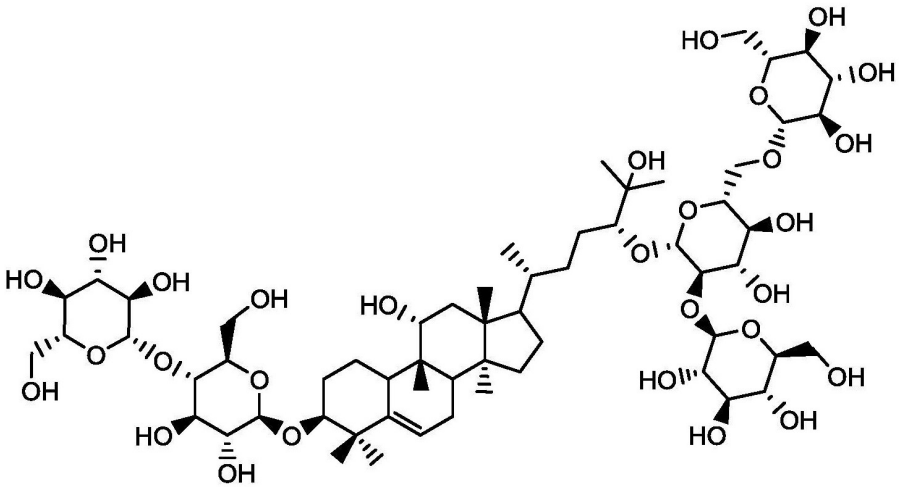
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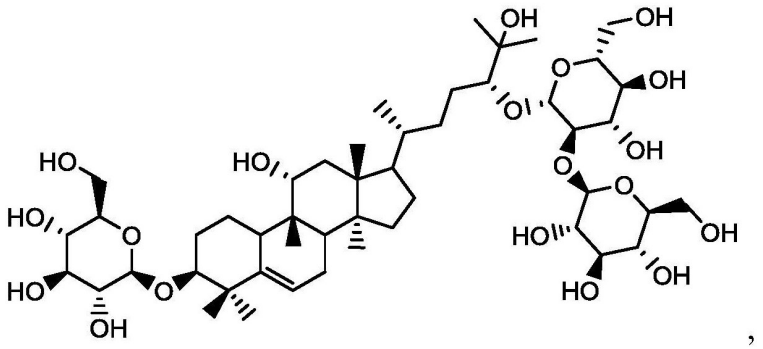
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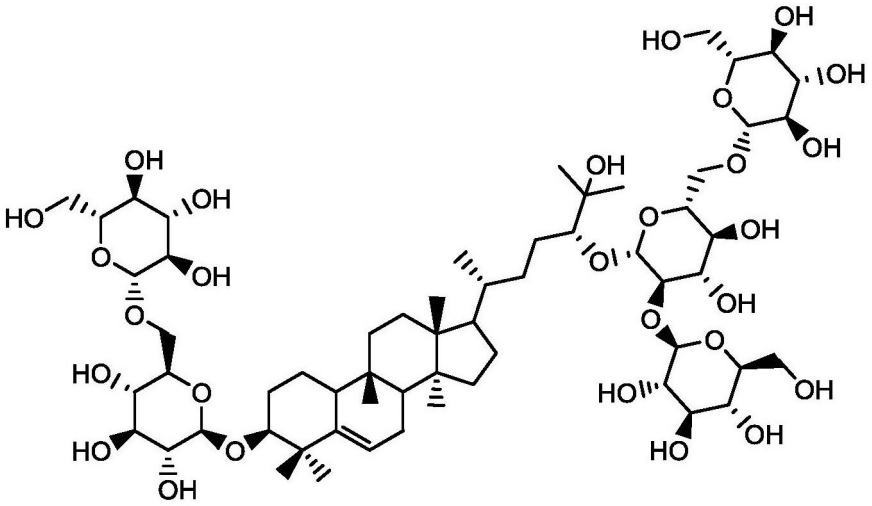
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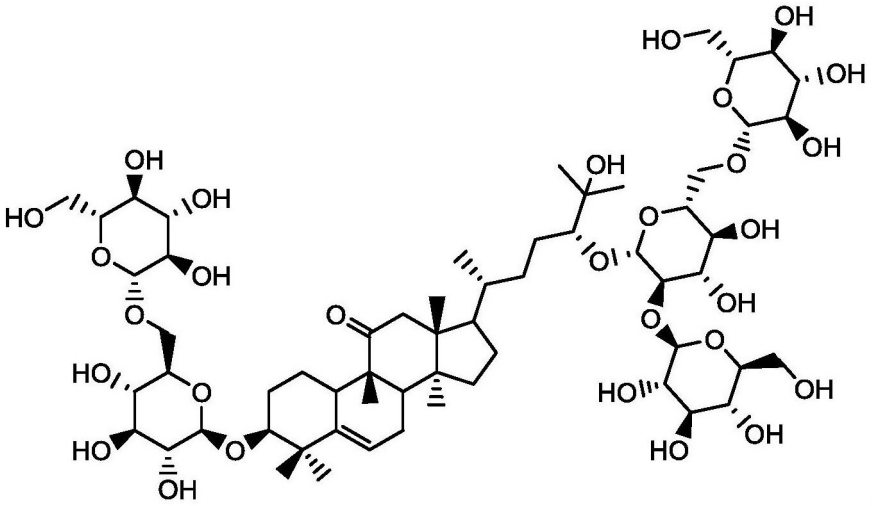
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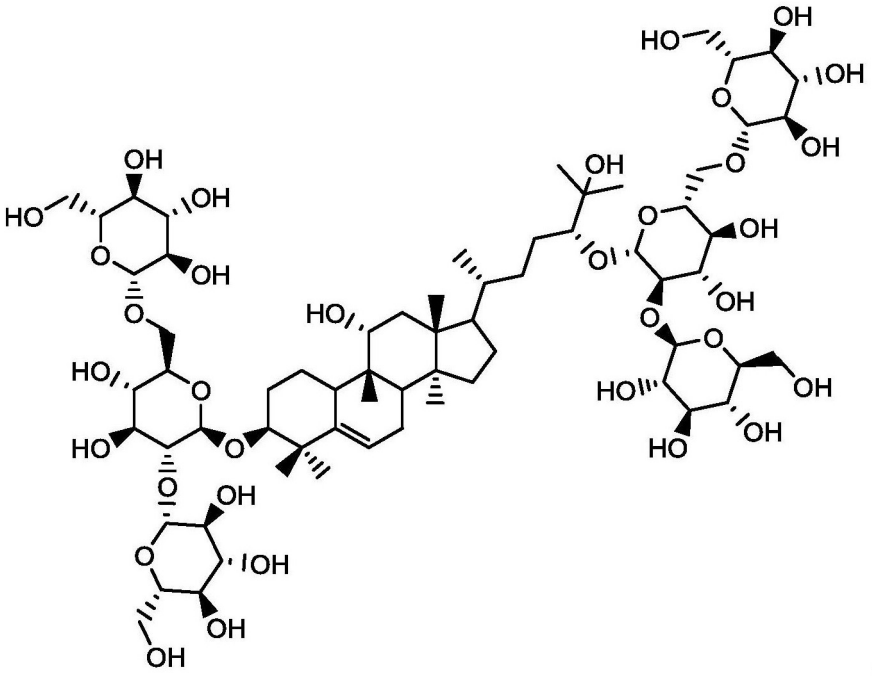
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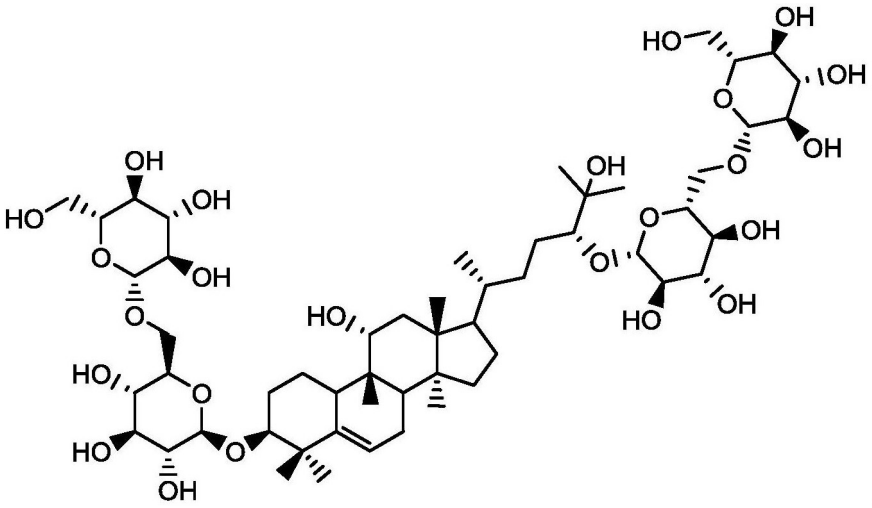
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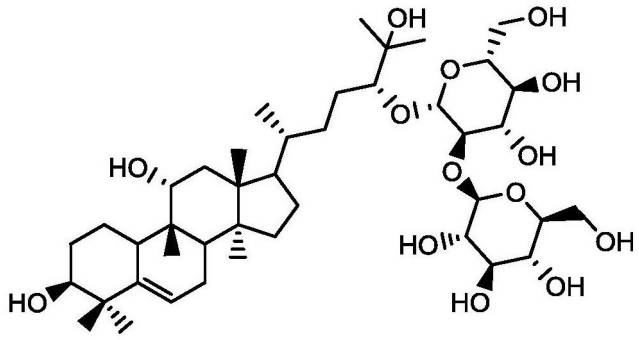
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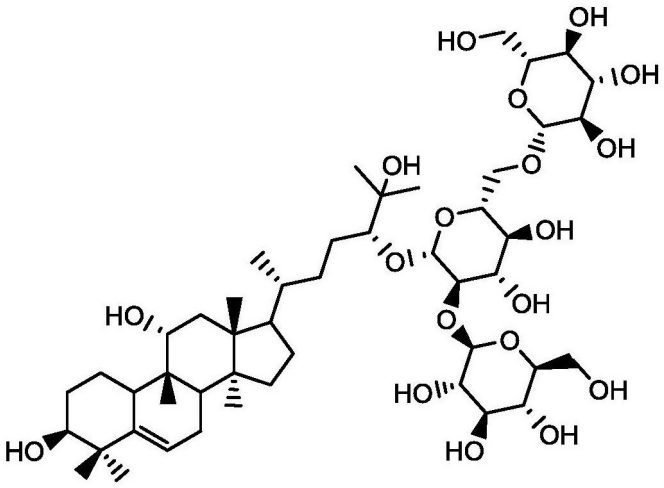
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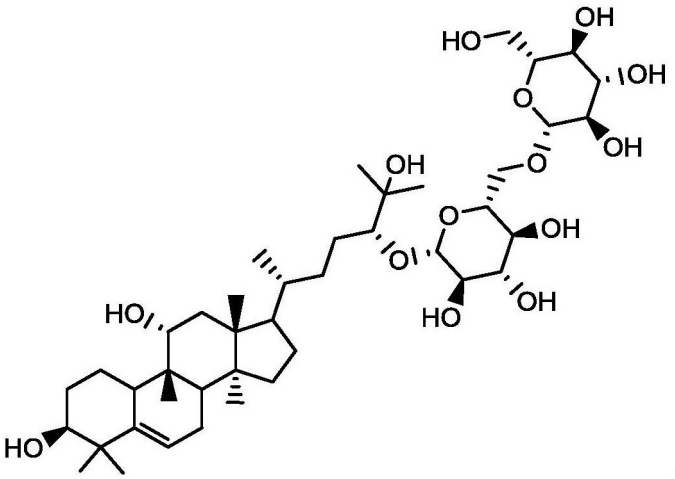
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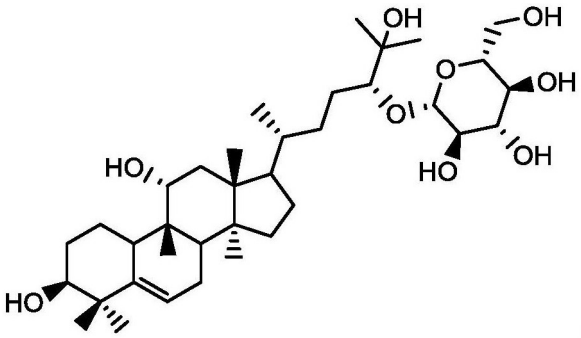
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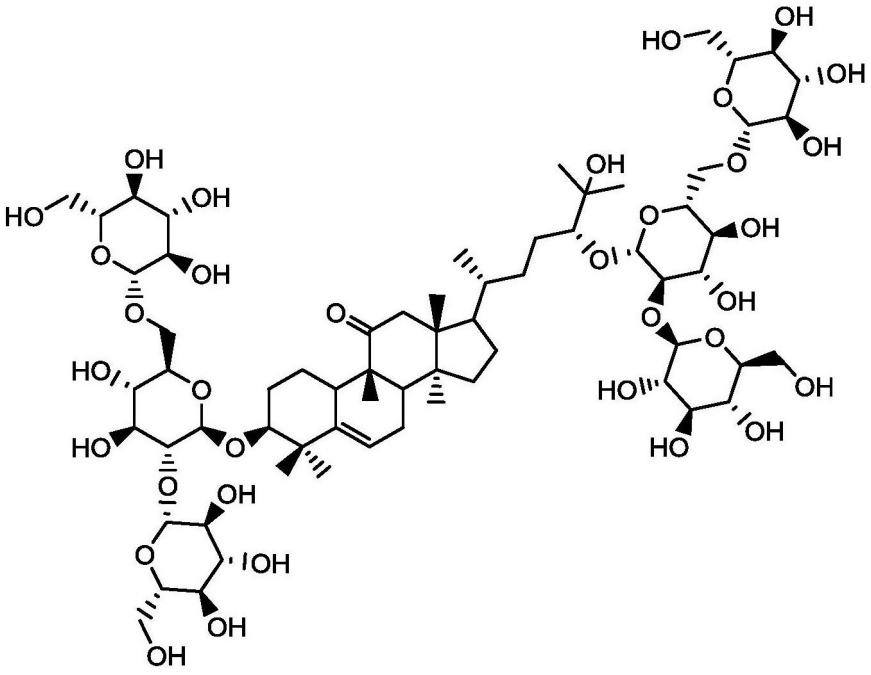
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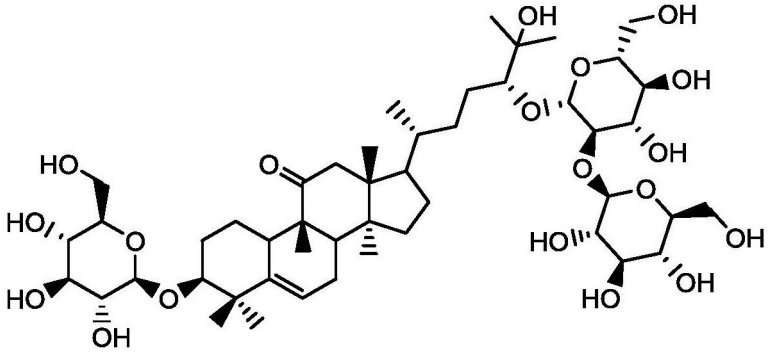
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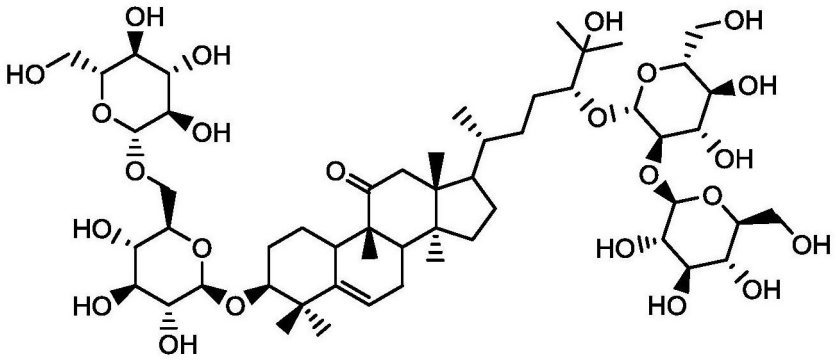
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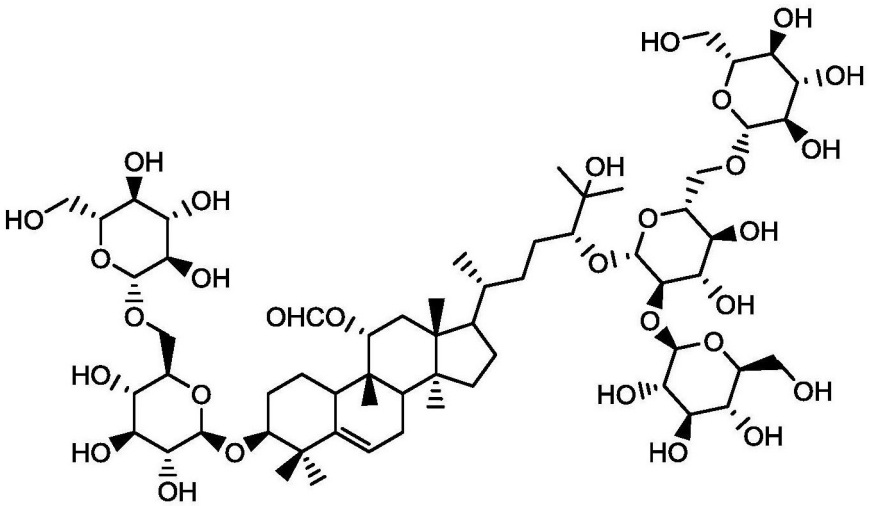
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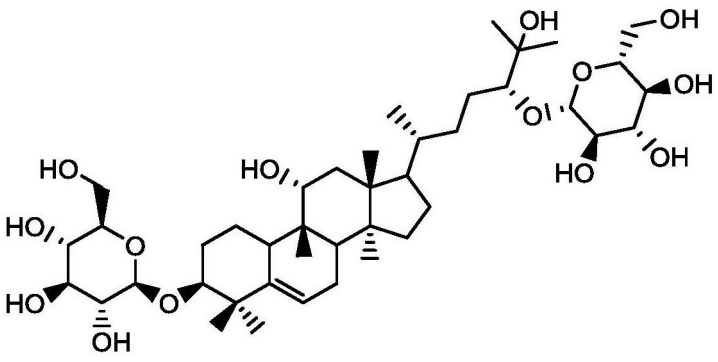
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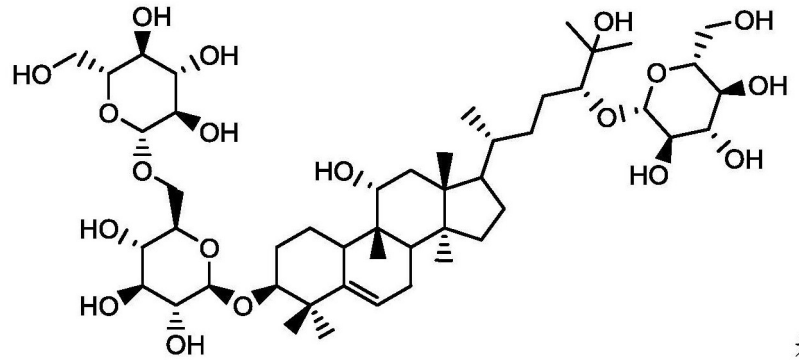
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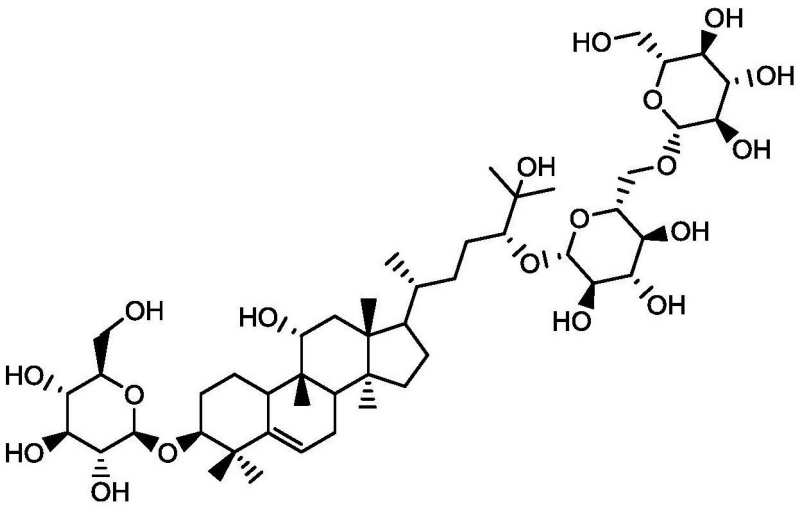
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其中所述组合物包含大于50重量%的所述化合物。

4.如权利要求3所述的组合物，包含小于1重量%的罗汉果苷III_E。

5.如权利要求3所述的组合物，包含小于0.5重量%的罗汉果苷III_E。

6.如权利要求3所述的组合物，包含小于0.1重量%的罗汉果苷III_E。

7.如权利要求3至6中任一项所述的组合物，包含小于0.3重量%的11-氧代-罗汉果苷III_E。

8.如权利要求3至6中任一项所述的组合物，包含小于0.3重量%的11-氧代-罗汉果苷III_E。

9.如权利要求3至6中任一项所述的组合物，包含小于0.1重量%的11-氧代-罗汉果苷III_E。

10.如权利要求3至6中任一项所述的组合物，包含小于0.05重量%的11-氧代-罗汉果苷III_E。

11.如权利要求3至6中任一项所述的组合物，包含小于0.01重量%的11-氧代-罗汉果苷III_E。

12.如权利要求3所述的组合物，包含小于1重量%的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

13.如权利要求3所述的组合物，包含小于0.5重量%的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

14.如权利要求3所述的组合物，包含小于0.1重量%的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

15.如权利要求14所述的组合物，包含小于0.1重量％的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。

16.如权利要求3至15中任一项所述的组合物，包含小于1重量％的11-氧代-罗汉果醇。

17.如权利要求3至15中任一项所述的组合物，包含小于0.5重量％的11-氧代-罗汉果醇。

18.如权利要求3至15中任一项所述的组合物，包含小于0.1重量％的11-氧代-罗汉果醇。

19.如权利要求3至18中任一项所述的组合物，包含一种或多种选自[罗汉果中已知的罗汉果苷+罗汉果醇+11-氧代-罗汉果醇]的另外的化合物。

20.如权利要求3至19中任一项所述的组合物，包含大于70重量％的所述化合物。

21.如权利要求3至19中任一项所述的组合物，包含大于80重量％的所述化合物。

22.如权利要求3至19中任一项所述的组合物，包含大于90重量％的所述化合物。

23.如权利要求3至22中任一项所述的组合物，其中所述组合物为固体形式。

24.如权利要求23所述的组合物，其中所述化合物为结晶形式。

25.如权利要求23所述的组合物，其中所述化合物为无定形形式。

26.如权利要求23所述的组合物，其中所述化合物涂覆固体载体。

27.如权利要求26所述的组合物，其中所述固体载体为选自乳糖、纤维素、微晶纤维素、改性食品淀粉、阿拉伯胶、麦芽糖糊精、改性玉米淀粉、右旋糖、黄原胶、羧甲基纤维素、纤维素凝胶、纤维素胶、酪蛋白酸钠、角叉菜胶及其组合的颗粒。

28.如权利要求23至25中任一项所述的组合物，其中所述组合物为颗粒形式。

29.如权利要求28所述的组合物，其中所述组合物具有50μm至300μm的平均粒径。

30.如权利要求28所述的组合物，其中所述组合物具有80μm至200μm的平均粒径。

31.如权利要求28所述的组合物，其中所述组合物具有80μm至150μm的平均粒径。

32.组合物，包含权利要求3至22中任一项所述的组合物的固体颗粒和液体载体。

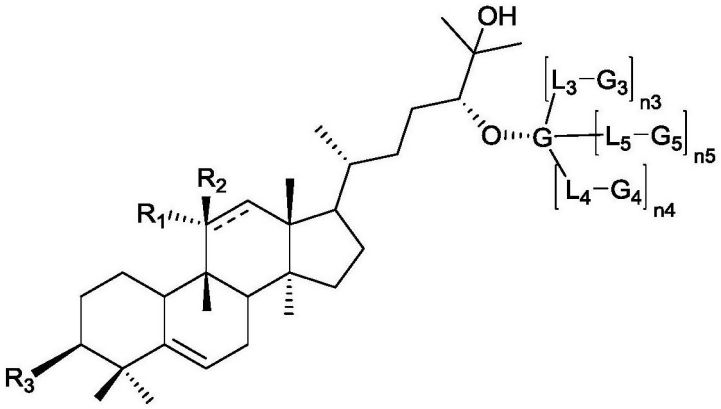
33.如权利要求32所述的组合物，其中所述固体颗粒悬浮于所述液体载体中。

34.如权利要求32或33所述的组合物，其中所述液体载体选自水、乙醇、丙二醇、三醋酸甘油酯、中链甘油三酯、甘油及其组合。

35.如权利要求32或33所述的组合物，其中所述液体载体为水。

36.如权利要求3至35中任一项所述的组合物，包含一种或多种另外的化合物，所述另外的化合物选自甜菊苷、瑞鲍迪苷、甘草酸、甘草甜素、GAMG(单葡糖醛酸基甘草次酸)、索马甜、莫奈林、布那珍、仙茅甜蛋白、马槟榔甜蛋白、潘塔亭、莫那甜、万年甘三萜苷、合欢树皂苷、白云参苷、bryoside、cussoracoside、青钱柳苷、无患子倍半萜苷、欧亚水龙骨甜素、巴西甘草甜素、糙苏苷、多足蕨苷、皮提罗苷、甜茶苷、夜来香苷、落蕨素A、荷南度辛、根皮苷、三叶苷、叶甜素、杜尔可苷A、gaudichaudioside A及其组合。

37.组合物，包含一种或多种具有式(I)结构的化合物的溶液：

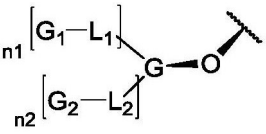


(I)

或其盐，其中：

------表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和 

；

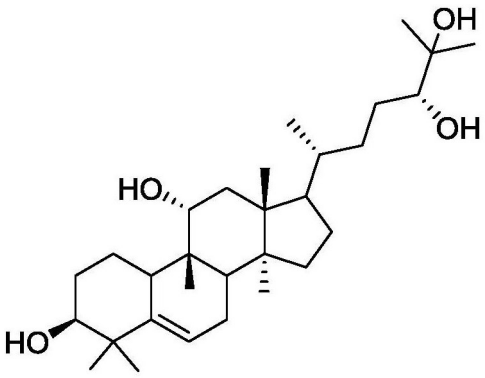
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数；

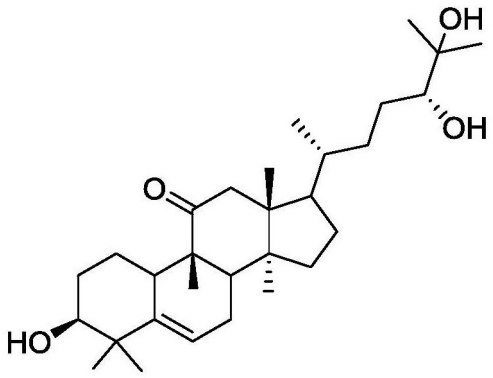
各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分；

各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键；以及

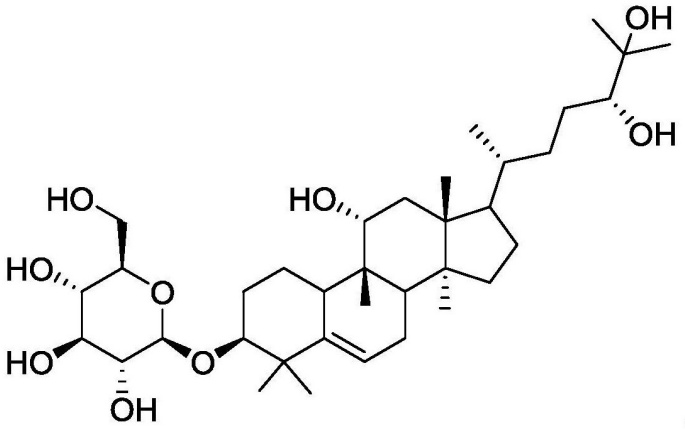
当------为碳-碳双键时，R_1不存在；

条件是式(I)不选自：

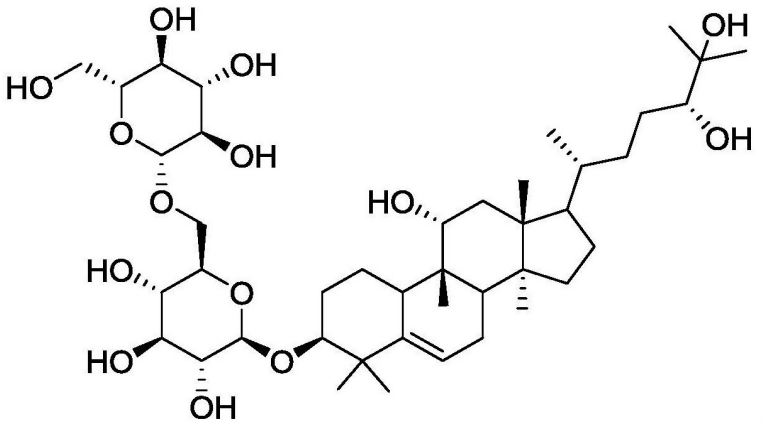


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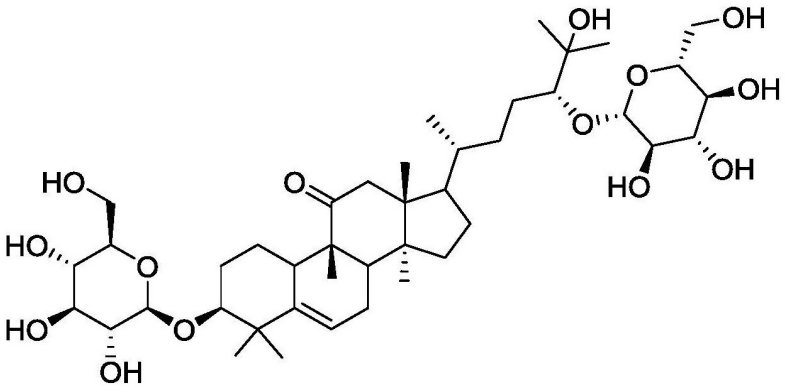
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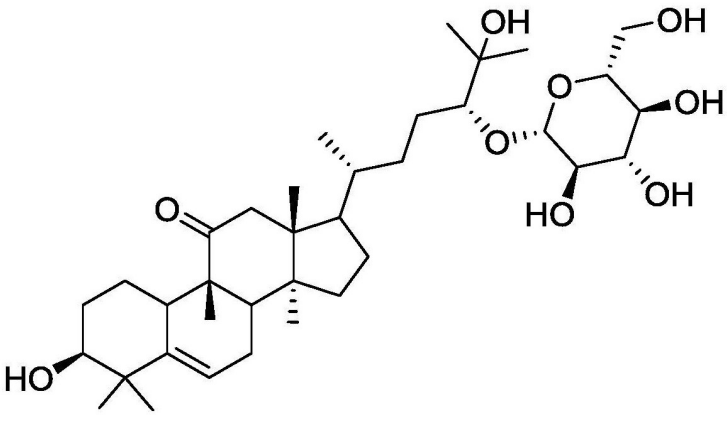
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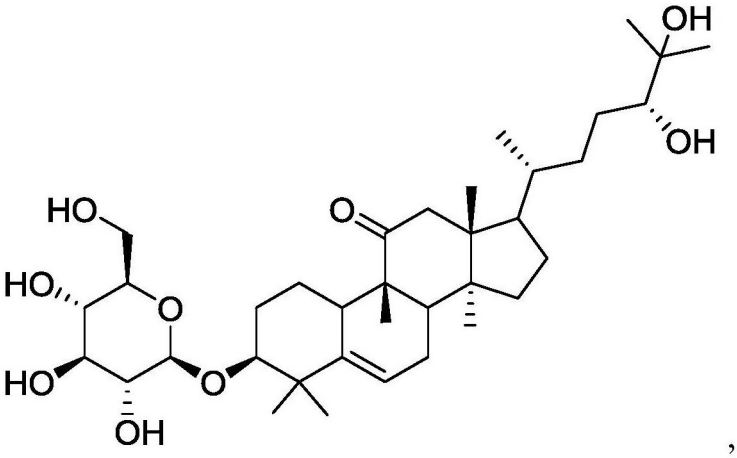
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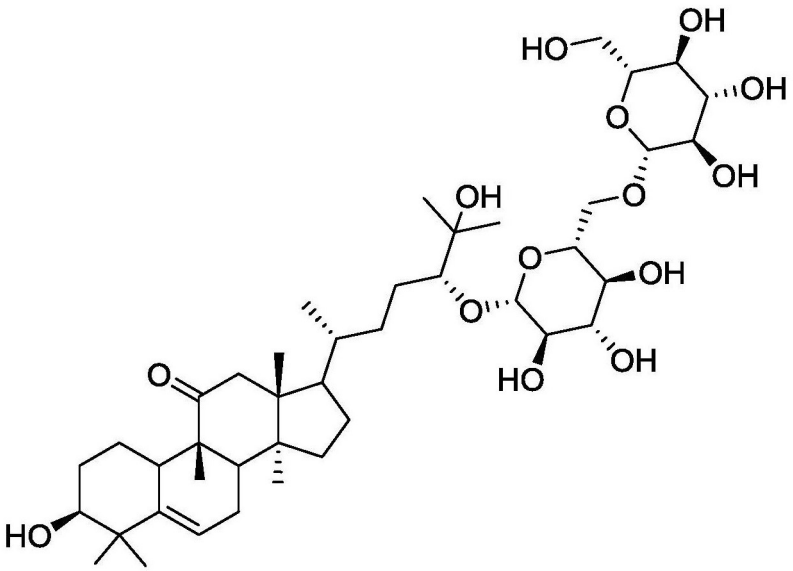
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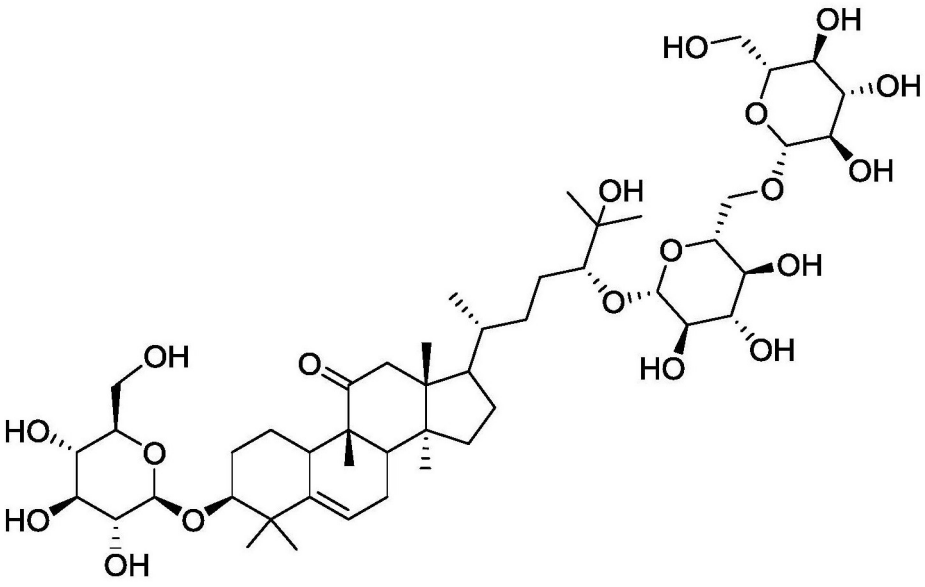
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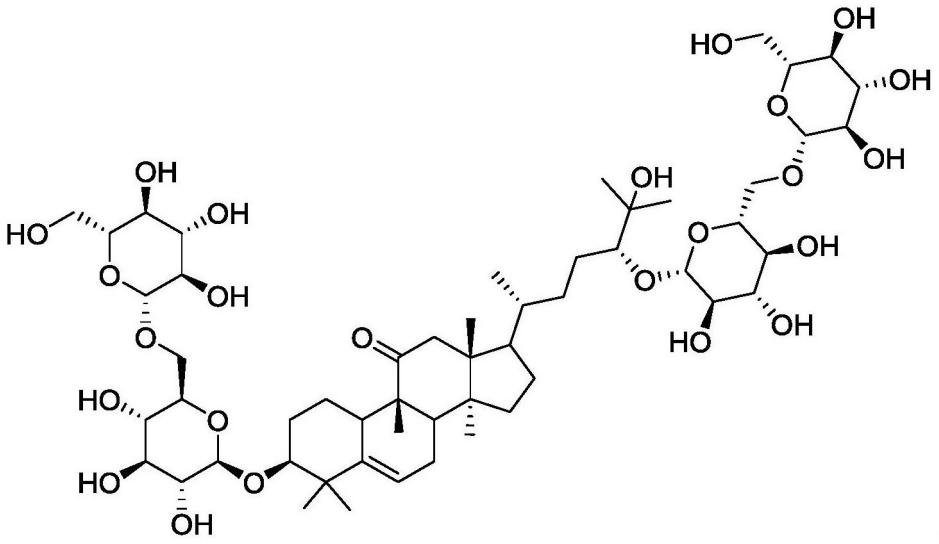
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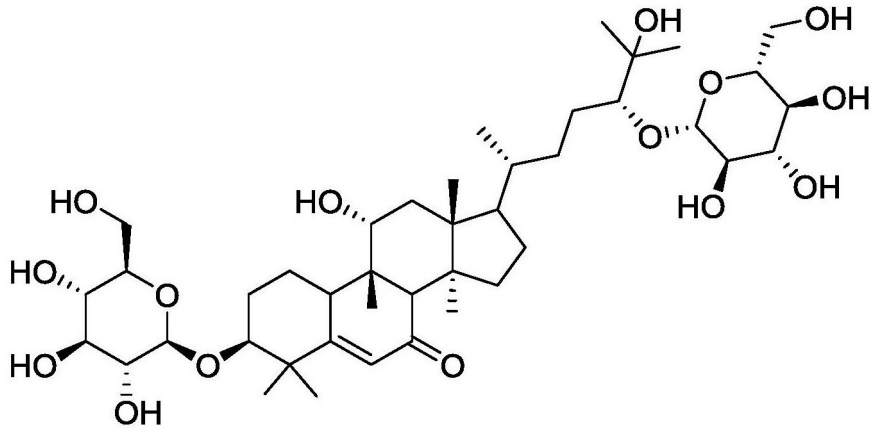
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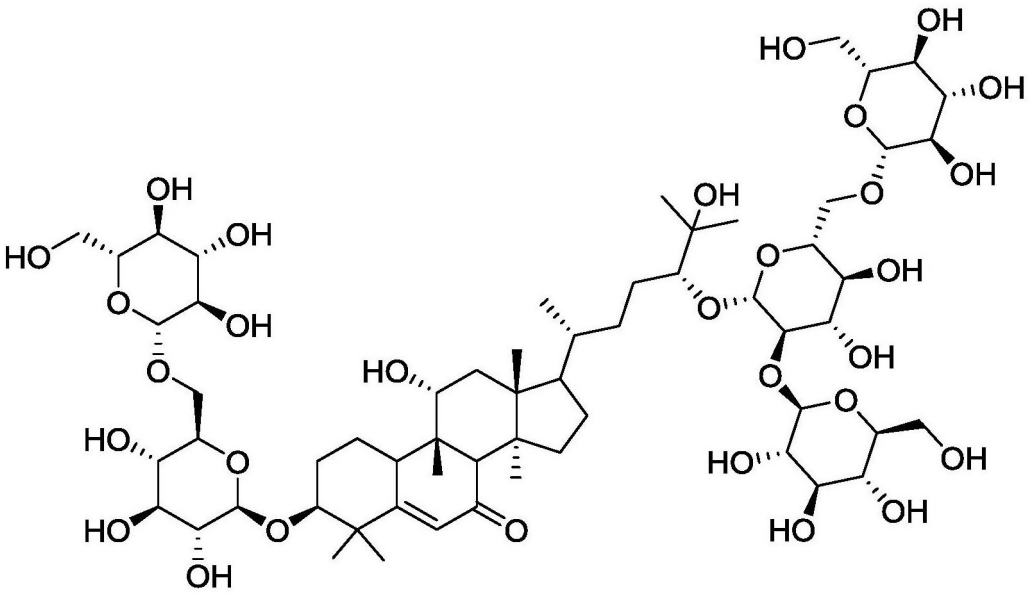
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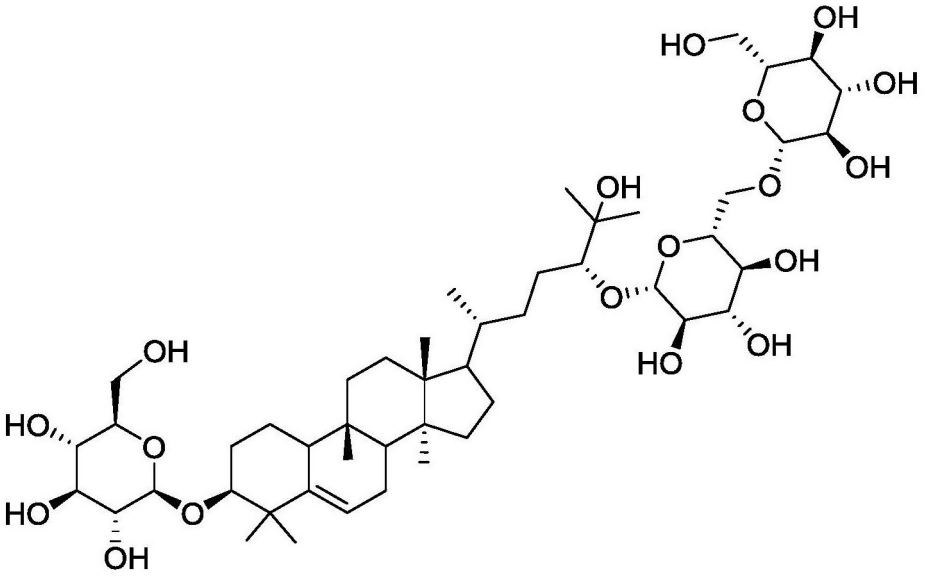
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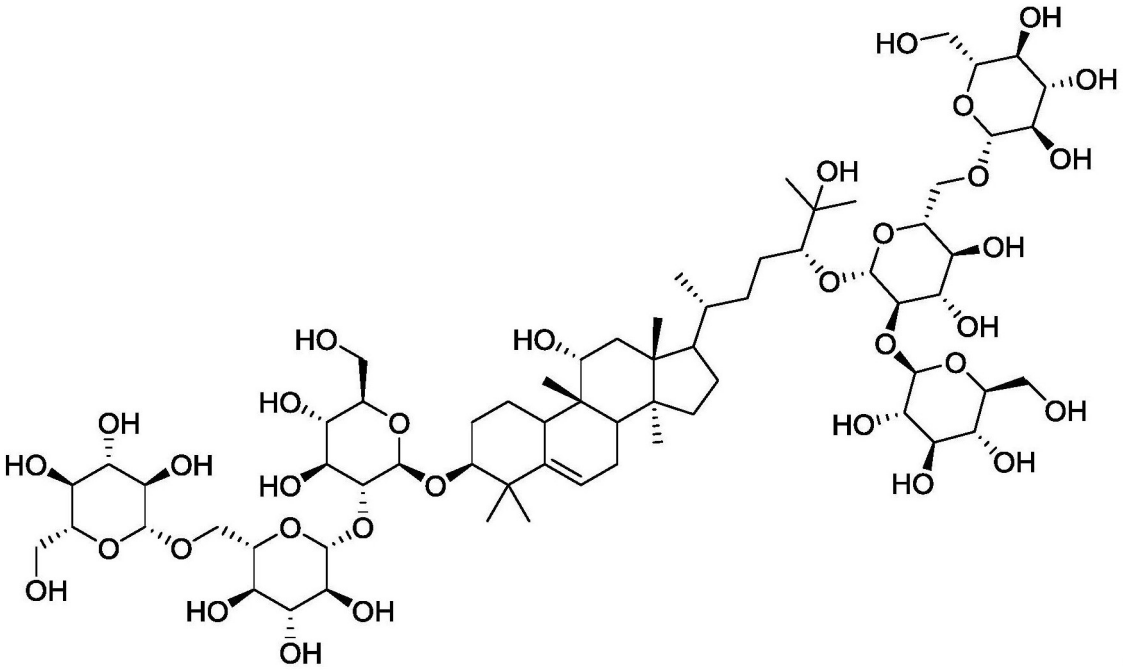
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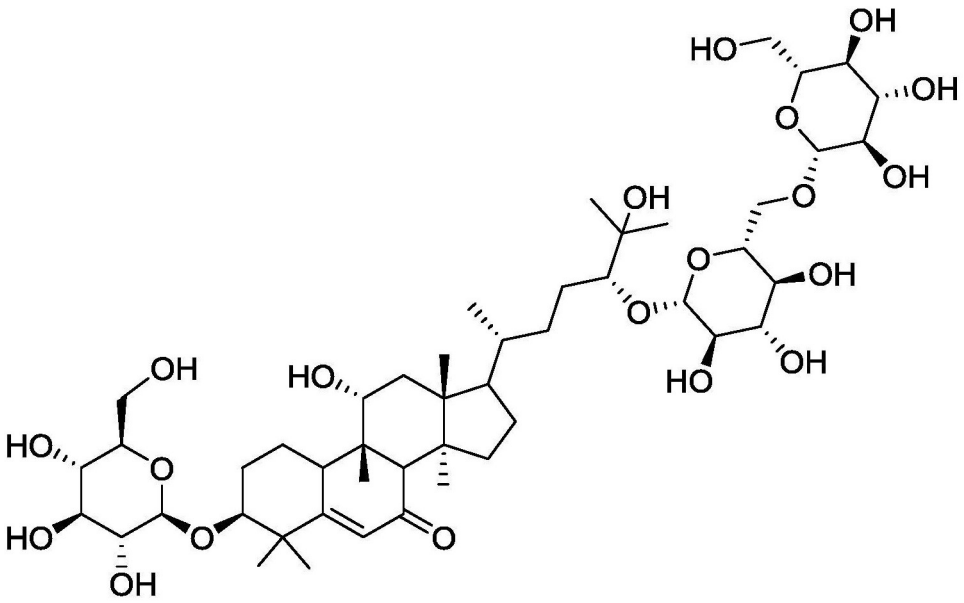
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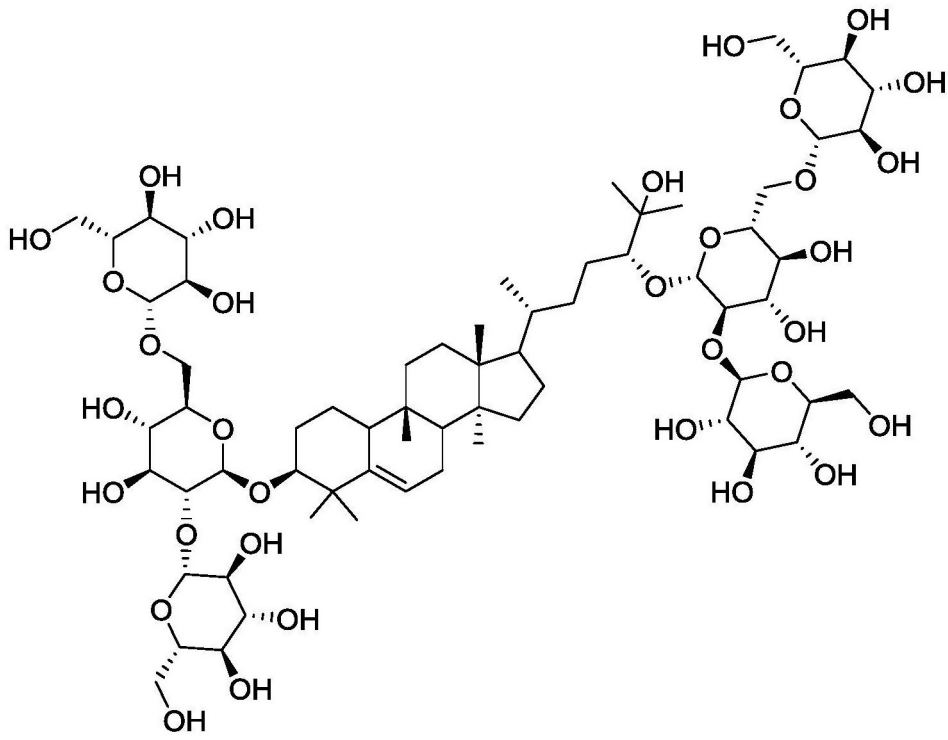
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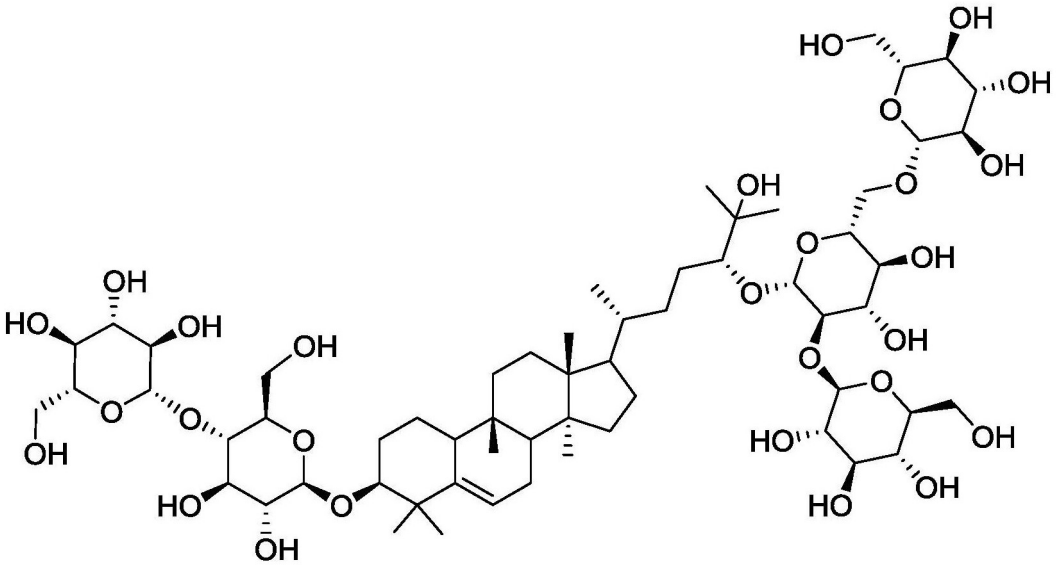
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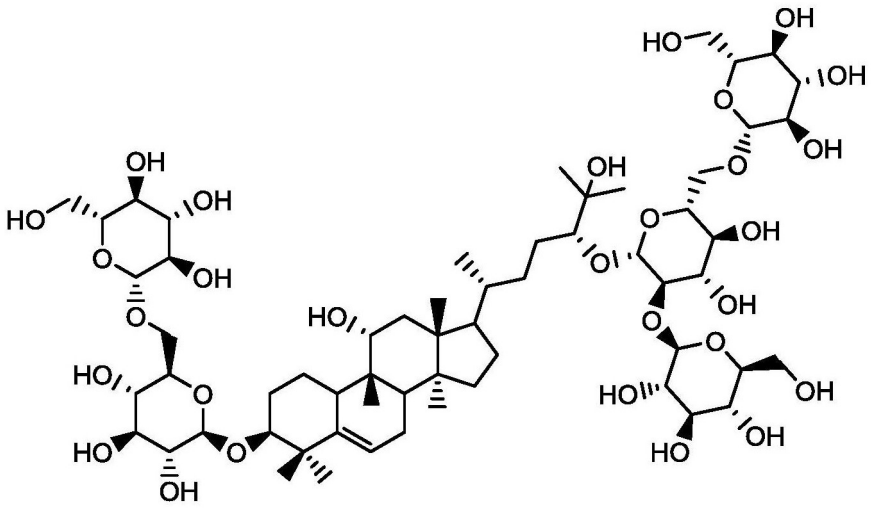
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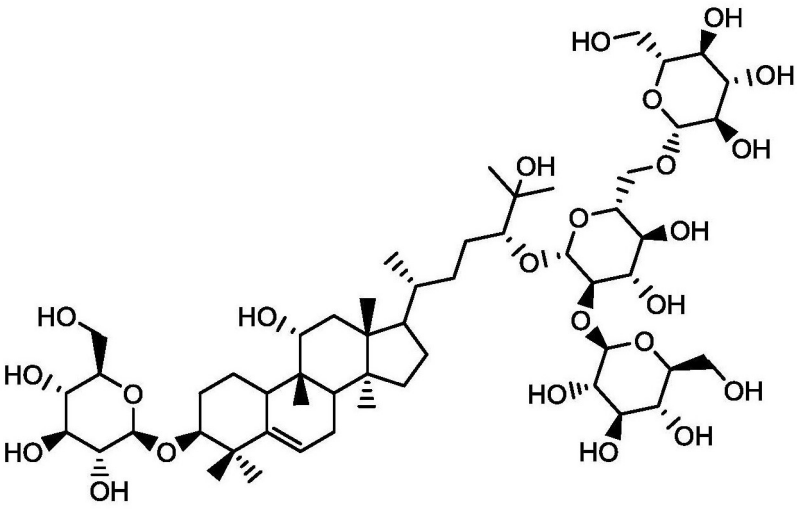
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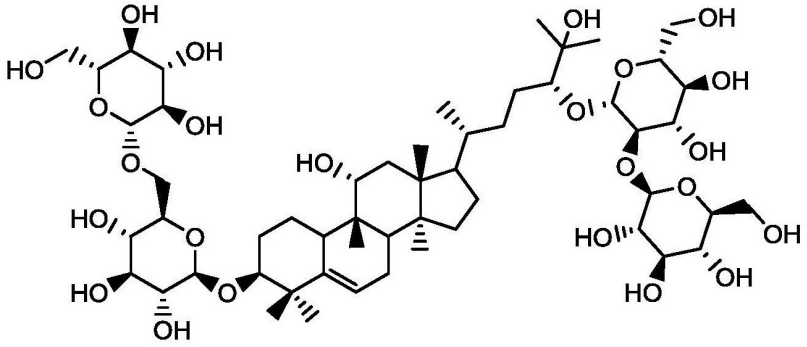
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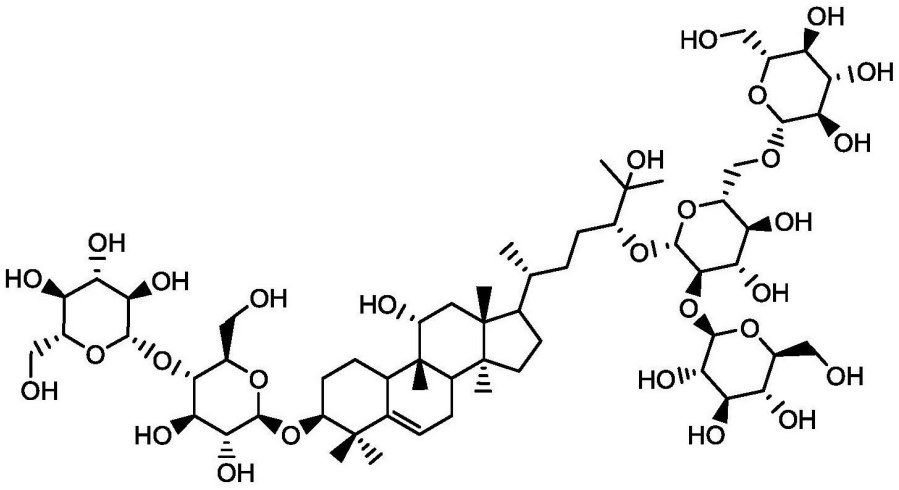
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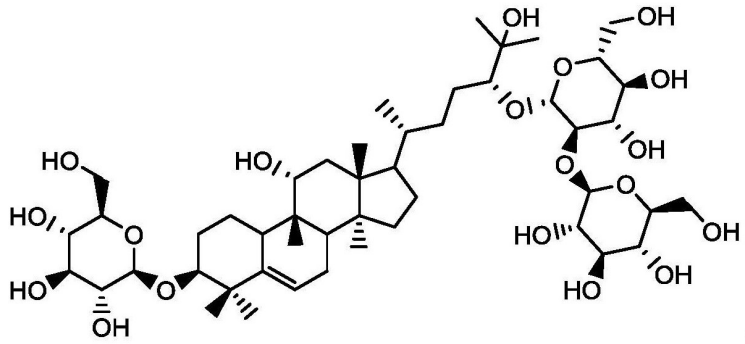
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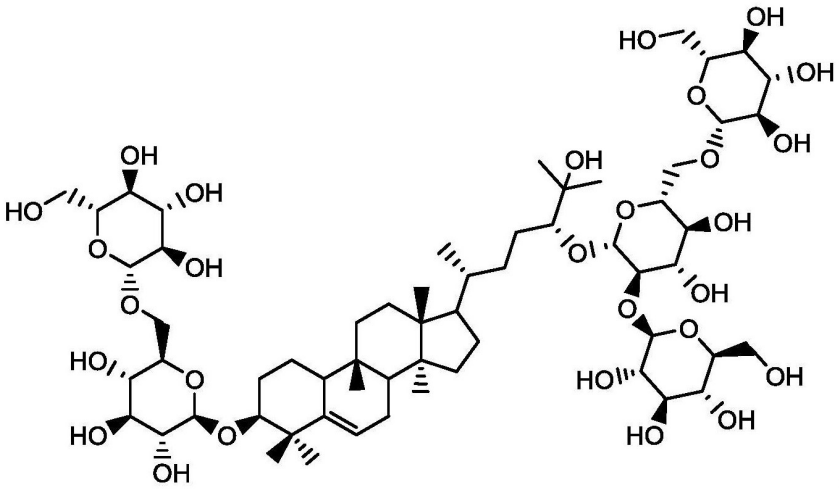
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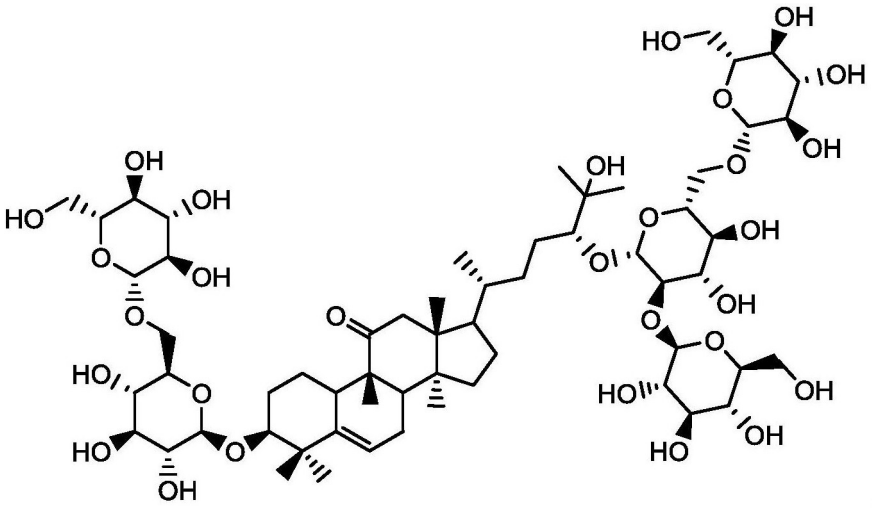
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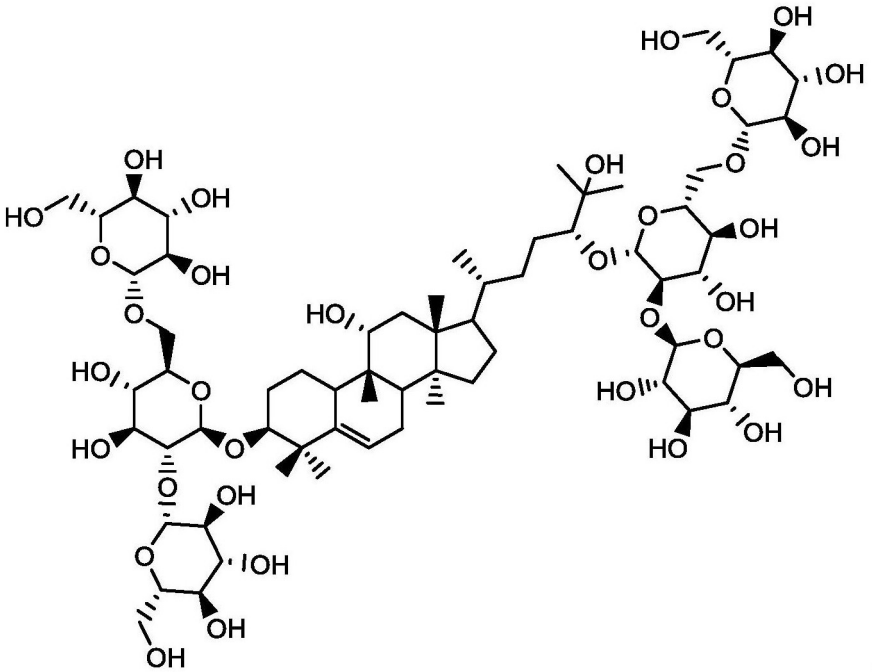
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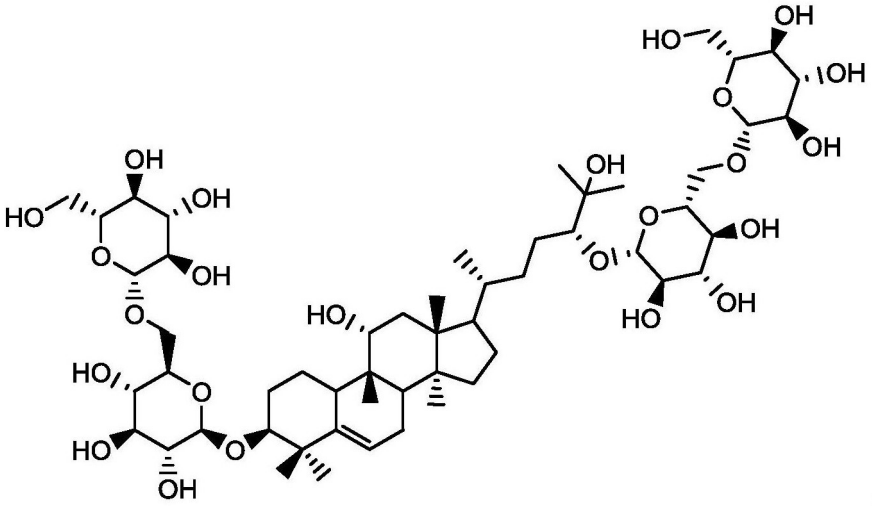
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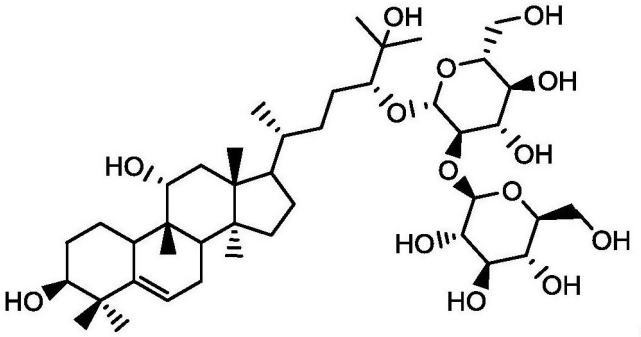
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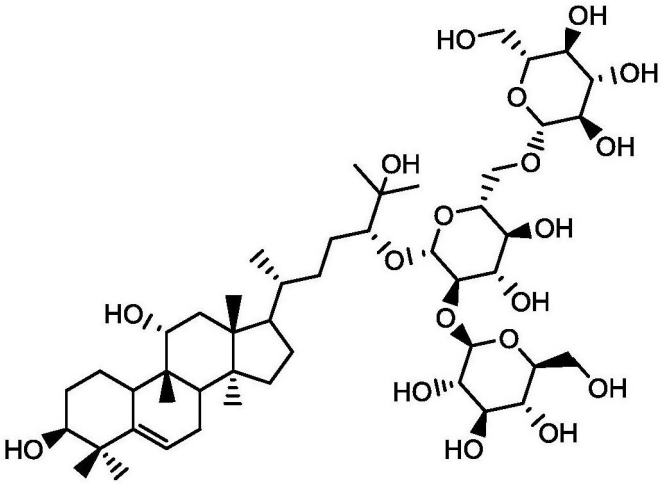
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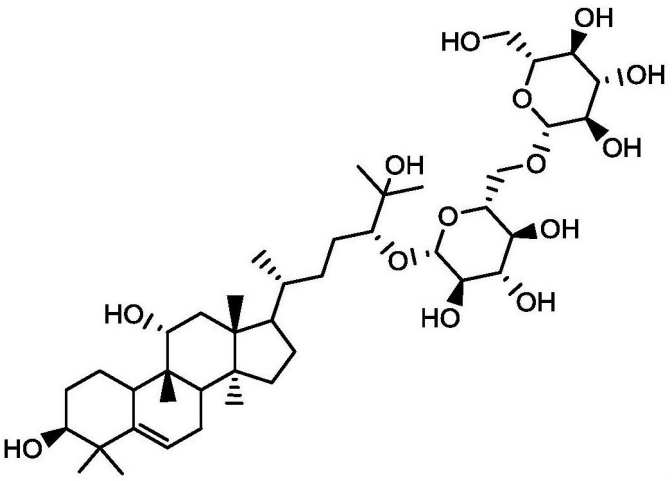
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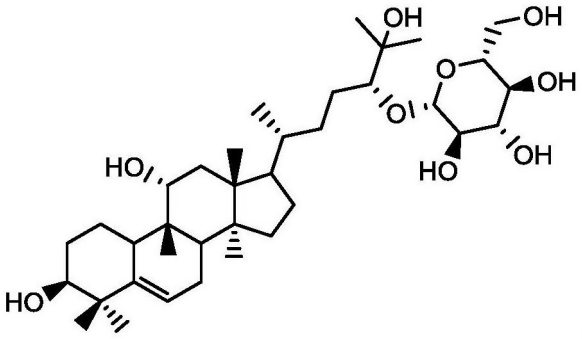
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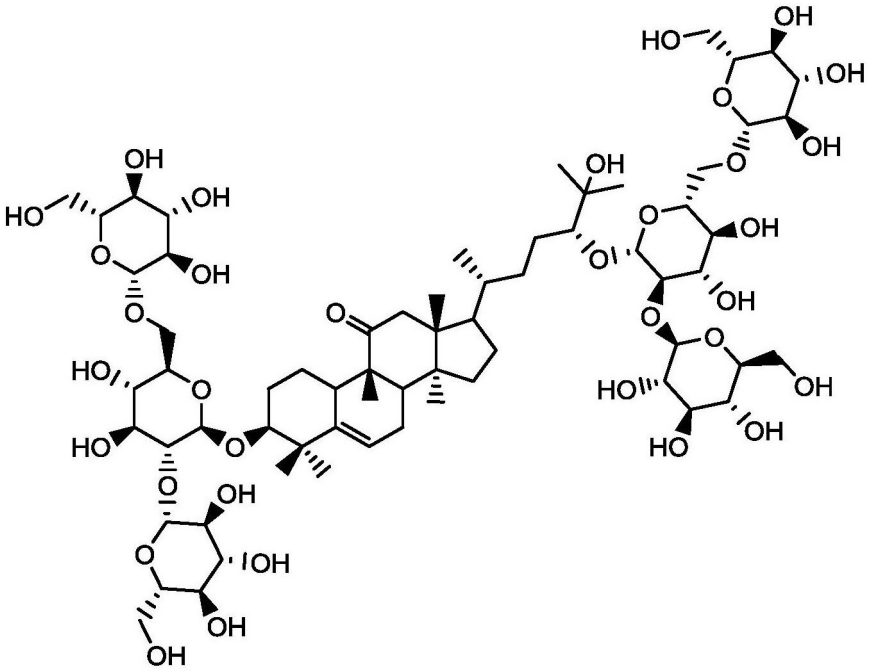
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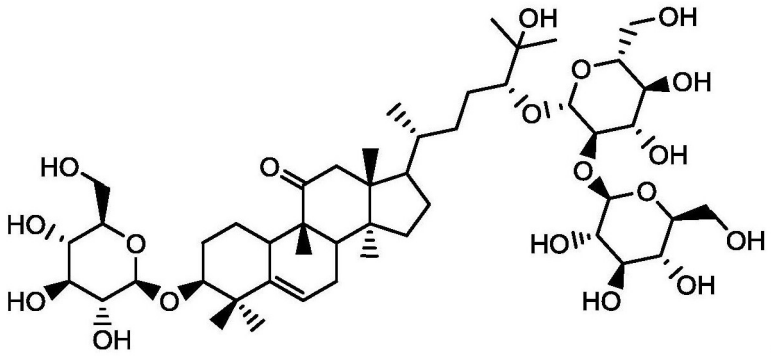
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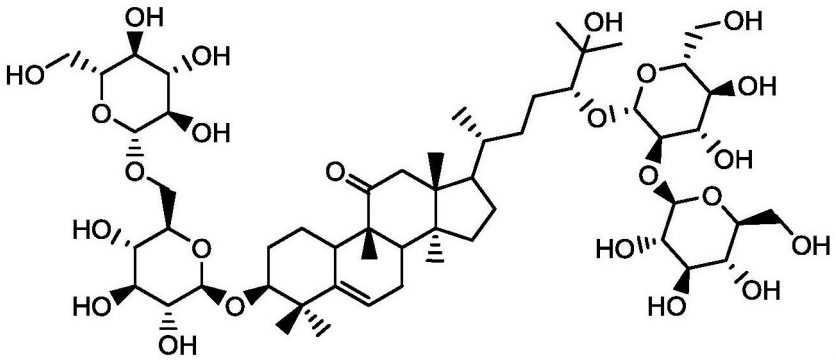
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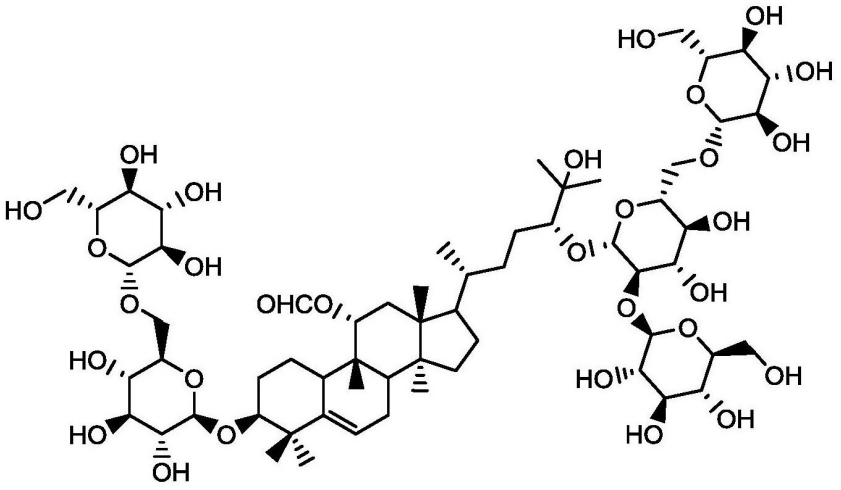
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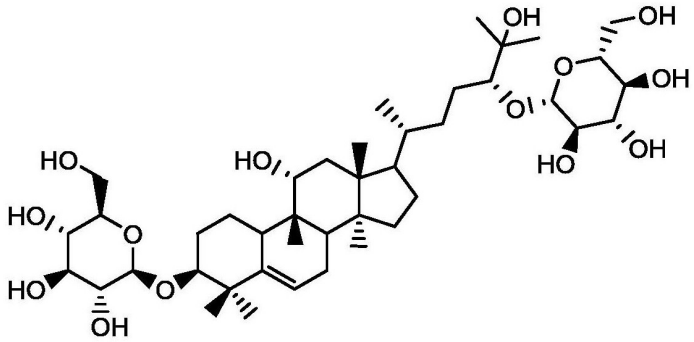
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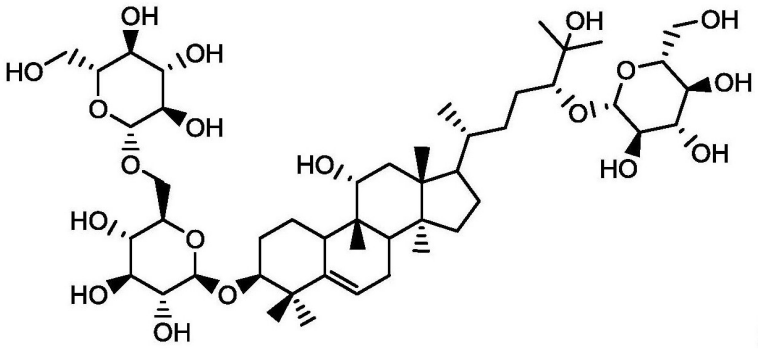
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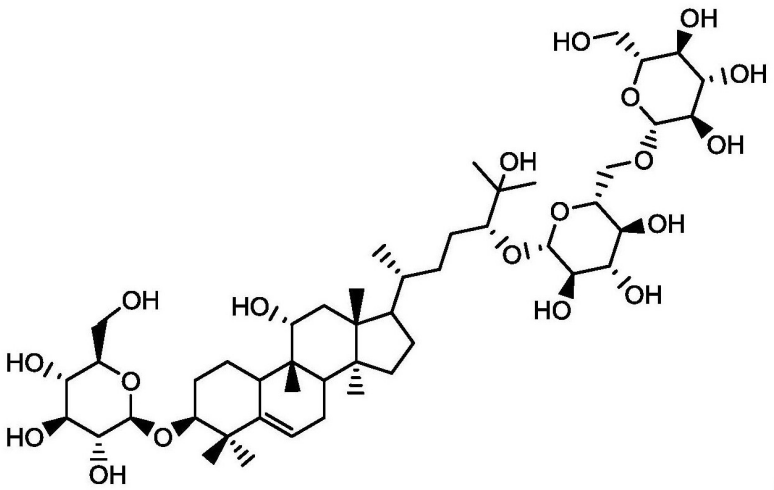
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其中所述化合物在所述溶液中的浓度大于300ppm。

38.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于500ppm。

39.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于0.1％。

40.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于0.5％。

41.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于1％。

42.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于5％。

43.如权利要求37所述的组合物，其中所述化合物在所述溶液中的浓度大于10％。

44.如权利要求37至43中任一项所述的组合物，其中所述溶液是水性的。

45.如权利要求37至43中任一项所述的组合物，其中所述溶液为醇溶液。

46.如权利要求45所述的组合物，其中所述醇为乙醇。

47.如权利要求37至46中任一项所述的组合物，包含浓度小于100ppm的罗汉果苷III_E。

48.如权利要求37至46中任一项所述的组合物，包含浓度小于50ppm的罗汉果苷III_E。

49.如权利要求37至46中任一项所述的组合物，包含浓度小于20ppm的罗汉果苷III_E。

50.如权利要求37至46中任一项所述的组合物，包含浓度小于5ppm的罗汉果苷III_E。

51.如权利要求37至50中任一项所述的组合物，包含浓度小于30ppm的11-氧代-罗汉果苷III_E。

52.如权利要求37至50中任一项所述的组合物，包含浓度小于10ppm的11-氧代-罗汉果苷III_E。

53.如权利要求37至50中任一项所述的组合物，包含浓度小于1ppm的11-氧代-罗汉果苷III_E。

54.如权利要求37至50中任一项所述的组合物，包含浓度小于0.1ppm的11-氧代-罗汉果苷III_E。

55.如权利要求37至46中任一项所述的组合物，包含组合浓度小于1％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

56.如权利要求37至46中任一项所述的组合物，包含组合浓度小于0.5％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

57.如权利要求37至46中任一项所述的组合物，包含组合浓度小于0.1％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

58.如权利要求37至46中任一项所述的组合物，包含组合浓度小于500ppm的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

59.如权利要求37至46中任一项所述的组合物，包含组合浓度小于100ppm的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

60.如权利要求37至46中任一项所述的组合物，包含组合浓度小于500ppm的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。

61.如权利要求37至46中任一项所述的组合物，包含组合浓度小于100ppm的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。

62.如权利要求37至61中任一项所述的组合物，包含浓度小于0.5％的11-氧代-罗汉果醇。

63.如权利要求37至61中任一项所述的组合物，包含浓度小于100ppm的11-氧代-罗汉果醇。

64.如权利要求37至63中任一项所述的组合物，包含一种或多种另外的化合物，所述另

外的化合物选自甜菊苷、瑞鲍迪苷、甘草酸、甘草甜素、GAMG(单葡糖醛酸基甘草次酸)、索马甜、莫奈林、布那珍、仙茅甜蛋白、马槟榔甜蛋白、潘塔亭、莫那甜、万年甘三萜苷、合欢树皂苷、白云参苷、bryoside、cussoracoside、青钱柳苷、无患子倍半萜苷、欧亚水龙骨甜素、巴西甘草甜素、糙苏苷、多足蕨苷、皮提罗苷、甜茶苷、夜来香苷、落蕨素A、荷南度辛、根皮苷、三叶苷、叶甜素、杜尔可苷A、gaudichaudioside A及其组合。

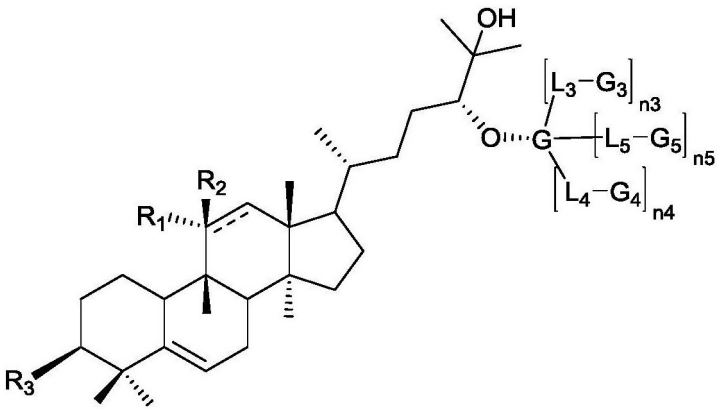
65.如权利要求37至64中任一项所述的组合物,包含一种或多种另外的化合物,所述另外的化合物选自罗汉果苷V、赛门苷I、罗汉果苷IV_E、异罗汉果苷V、罗汉果苷III_E、11-脱氧-罗汉果苷V、11-氧代-罗汉果苷V、罗汉果苷VI、罗汉果苷IV_A、罗汉果苷II_A、罗汉果苷II_{A1}、罗汉果苷II_{A2}、罗汉果苷I_A、11-氧代-罗汉果苷VI、11-氧代-罗汉果苷III_E、11-氧代-罗汉果苷IV_E、罗汉果苷I_E、罗汉果醇、11-氧代-罗汉果醇、罗汉果苷II_E、罗汉果苷III_{A2}和罗汉果苷III。

66.如权利要求37至65中任一项所述的组合物,其中所述溶液具有小于7的pH。

67.如权利要求66所述的组合物,其中所述溶液具有1至7的pH。

68.如权利要求66所述的组合物,其中所述溶液具有1至5的pH。

69.组合物,包含填充剂和一种或多种具有式(I)结构的化合物:

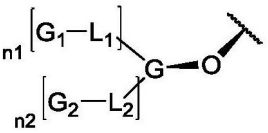


(I)

或其盐,其中:

------表示碳-碳单键或碳-碳双键;

R_1不存在或者为羟基,并且R_2为氢,或者R_1和R_2连同它们连接的碳原子一起形成氧代基团;

R_3选自-OH和 

;

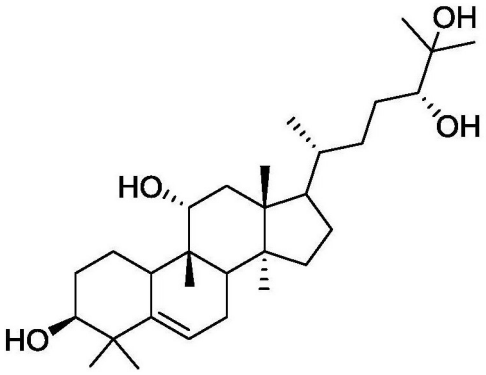
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数;

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分;

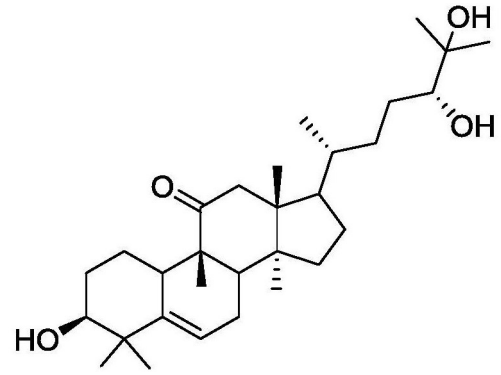
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键;以及

当------为碳-碳双键时,R_1不存在;

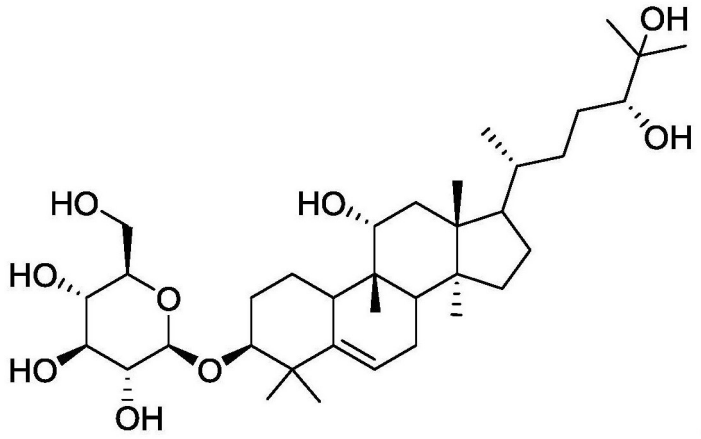
条件是式(I)不选自:


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OH
HO
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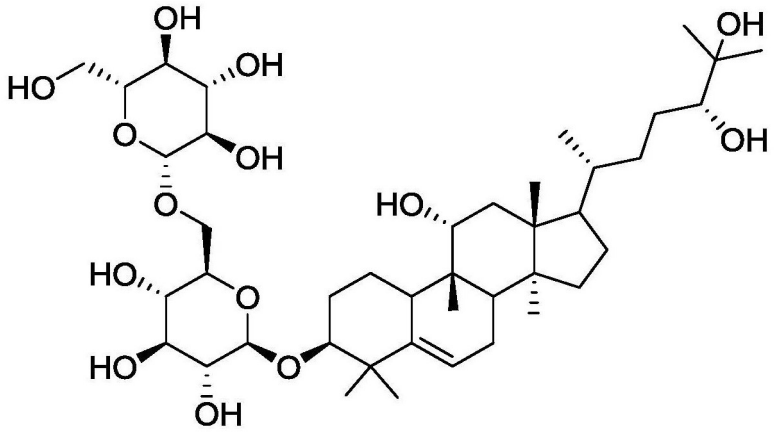
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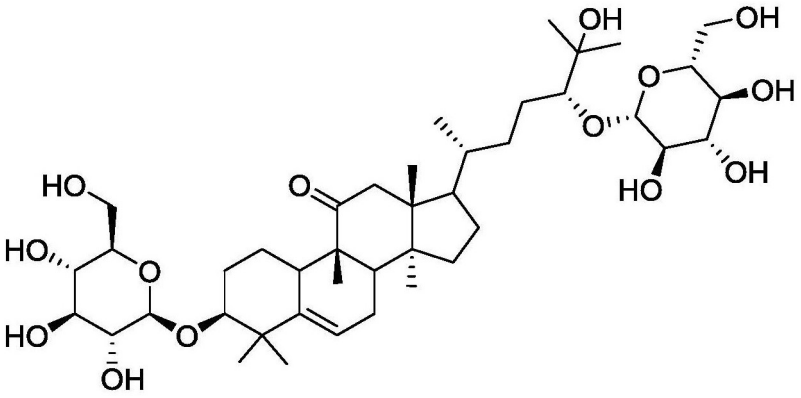
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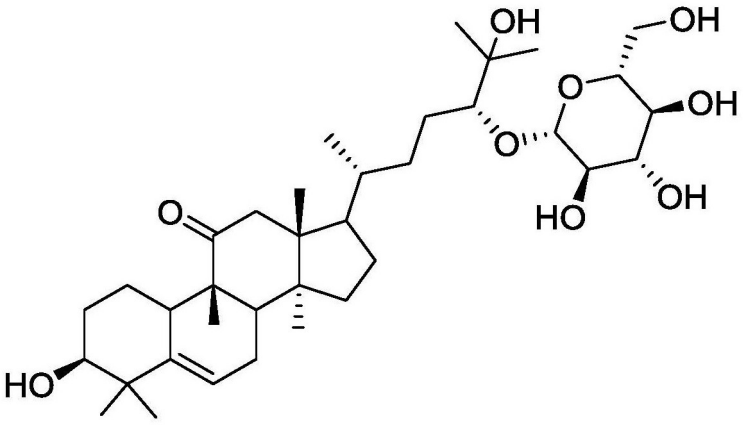
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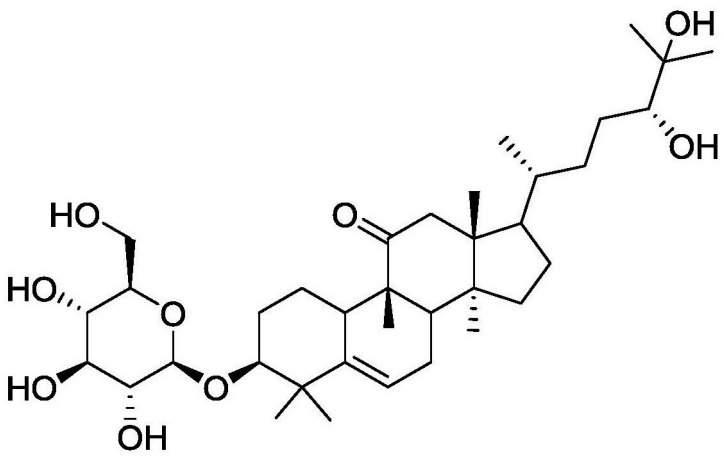
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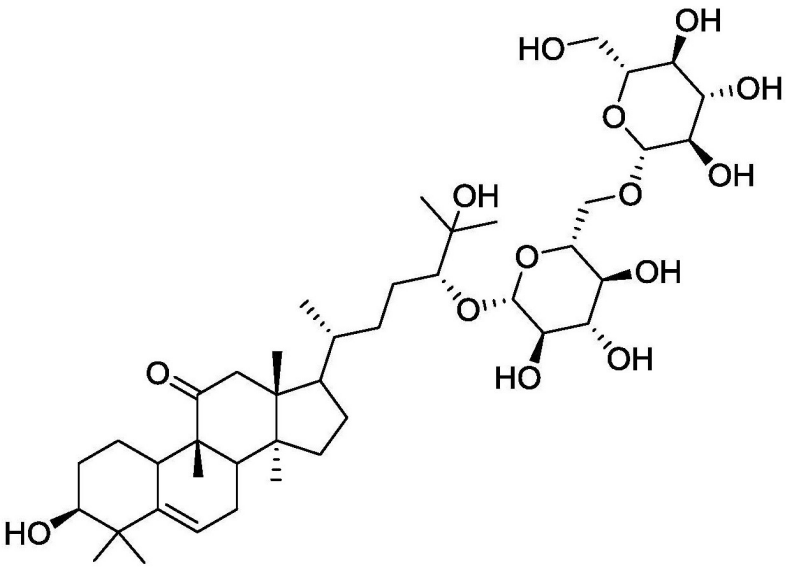
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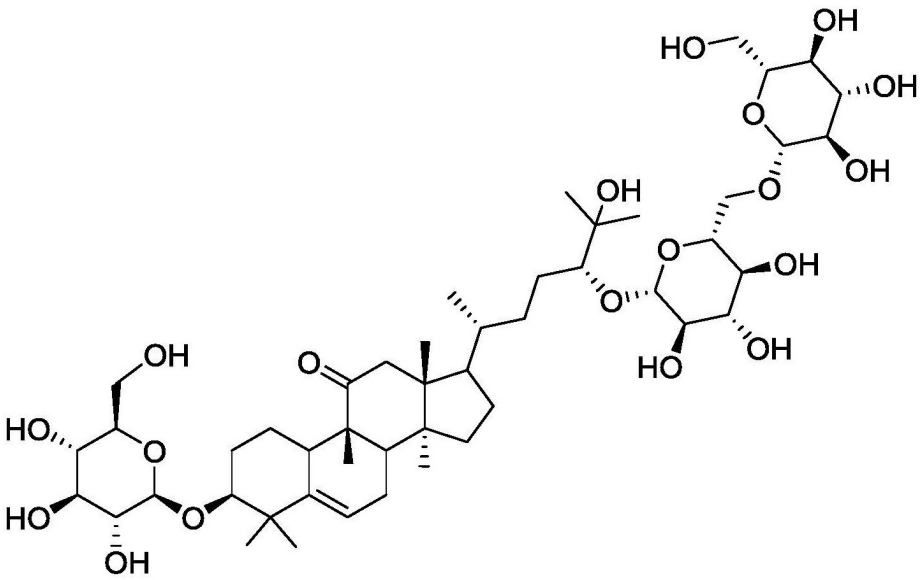
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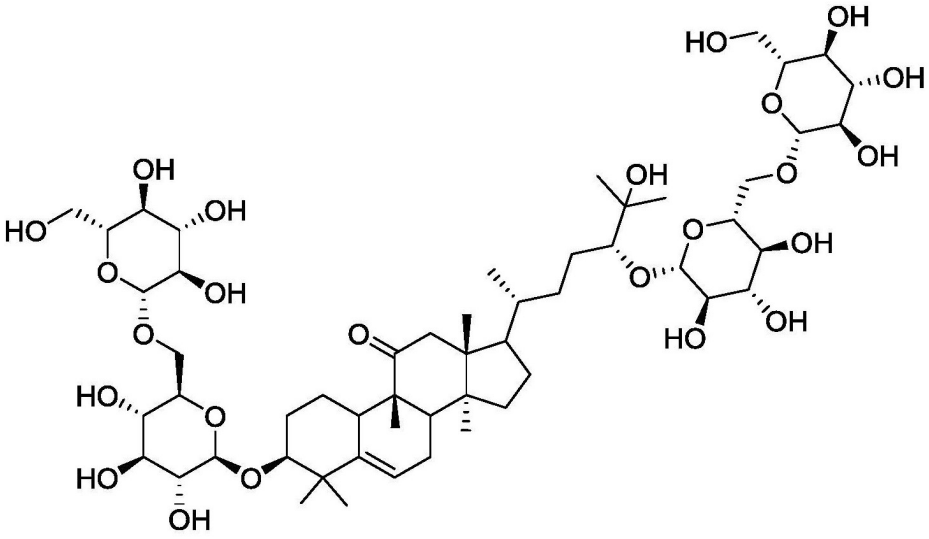
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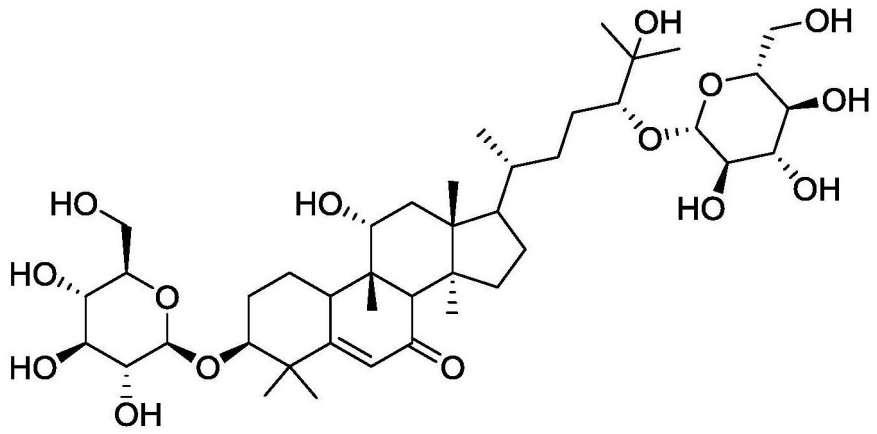
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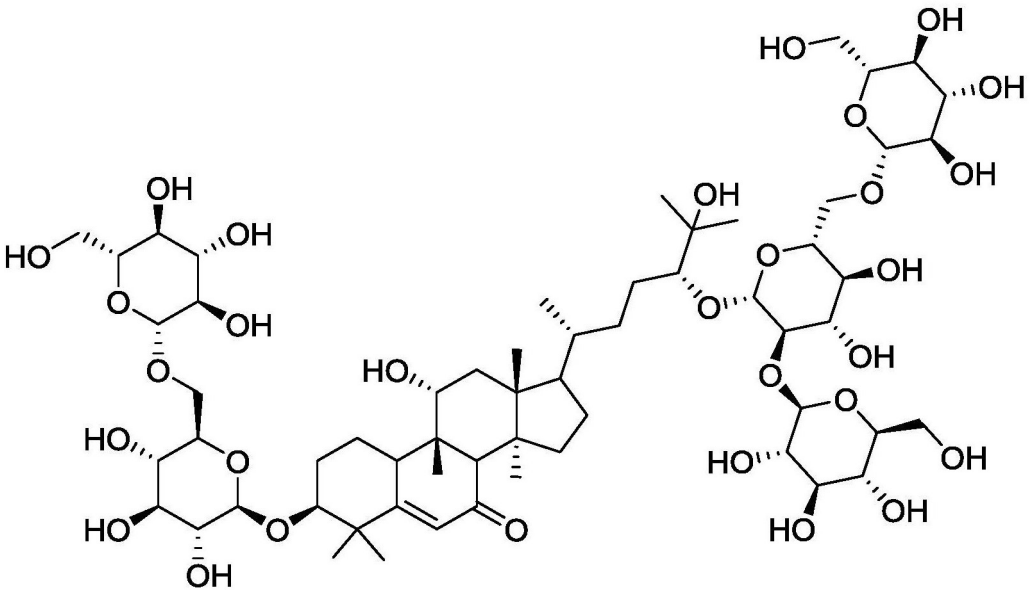
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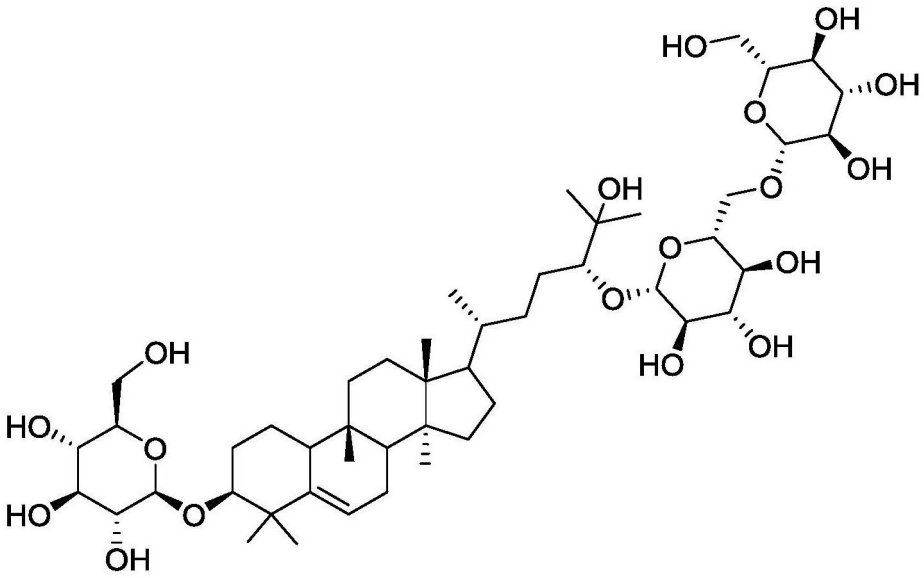
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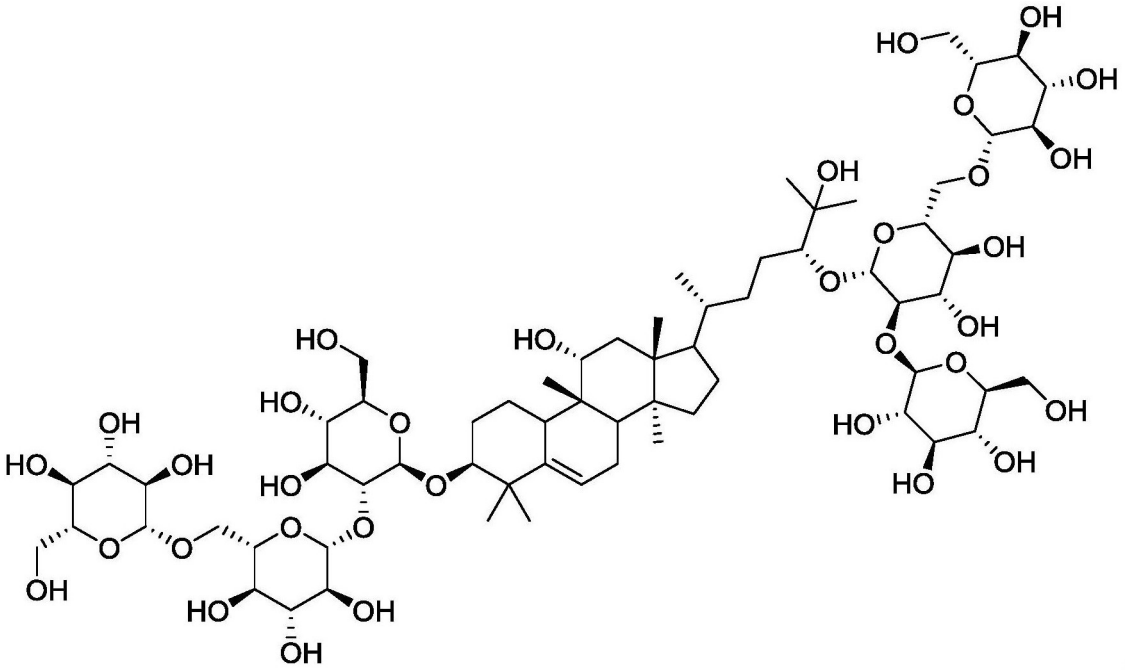
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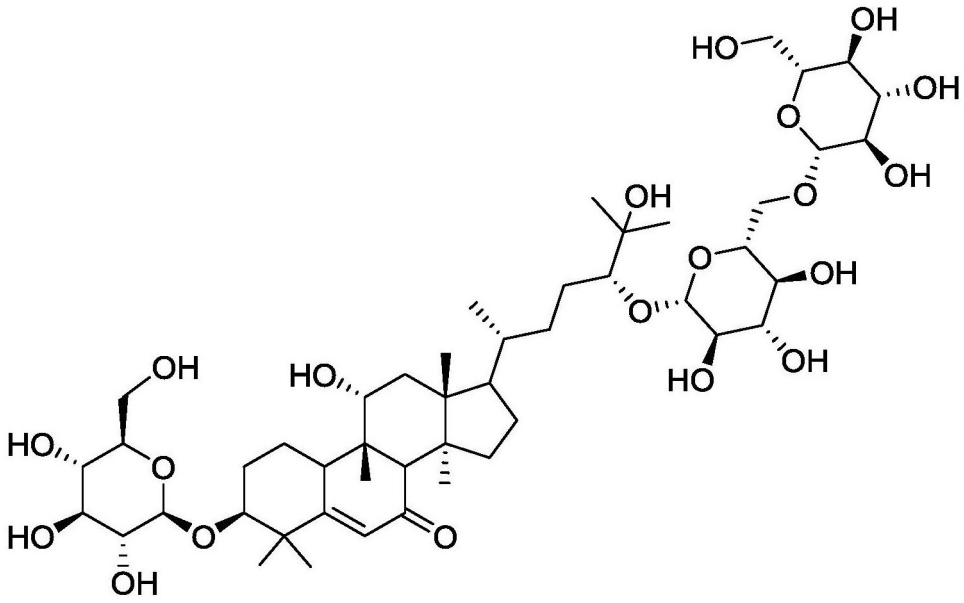
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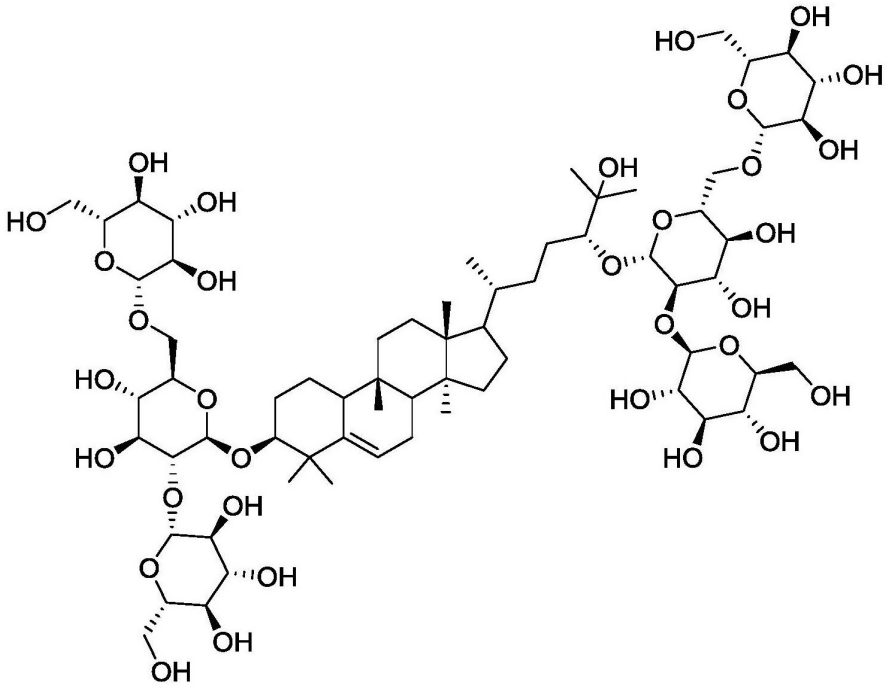
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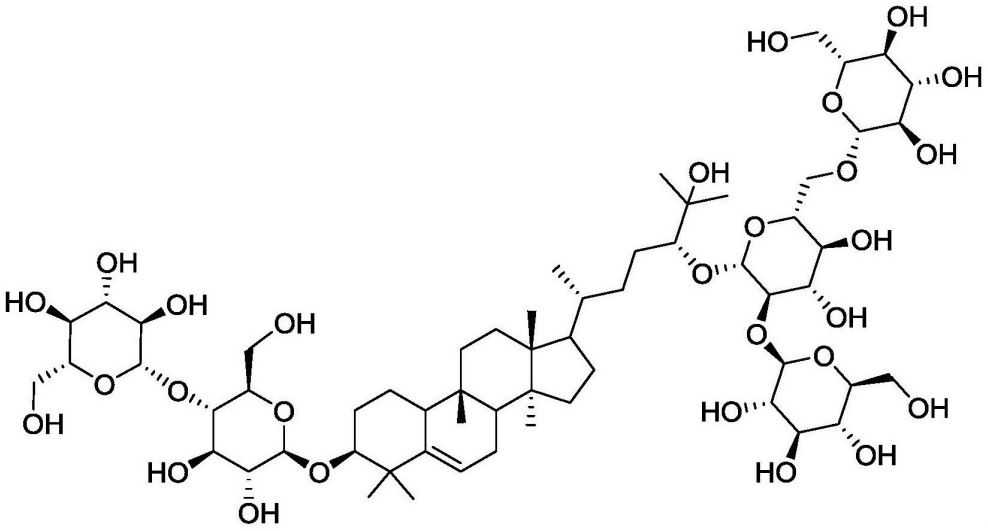
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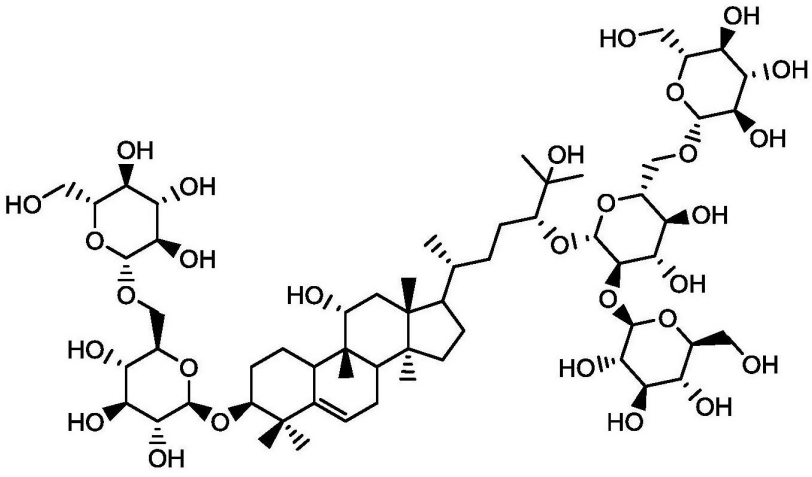
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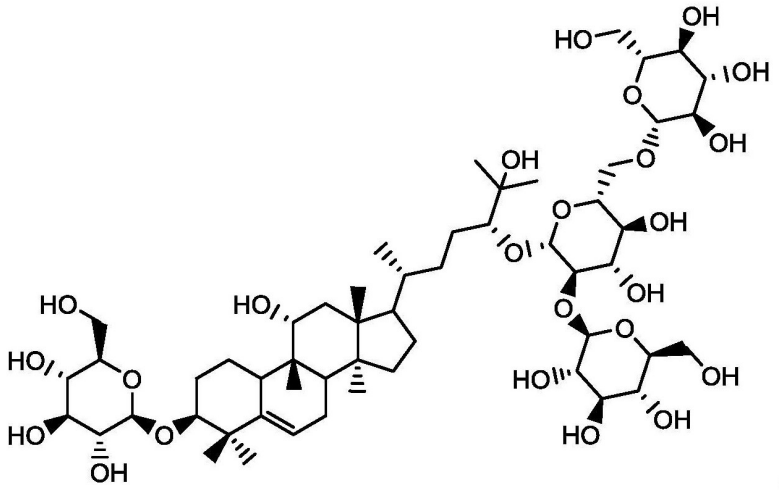
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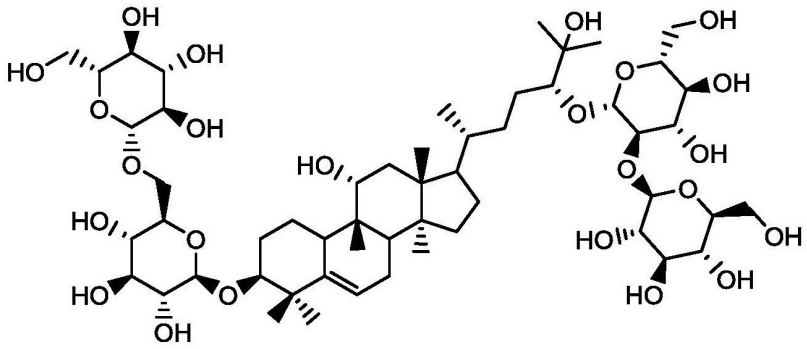
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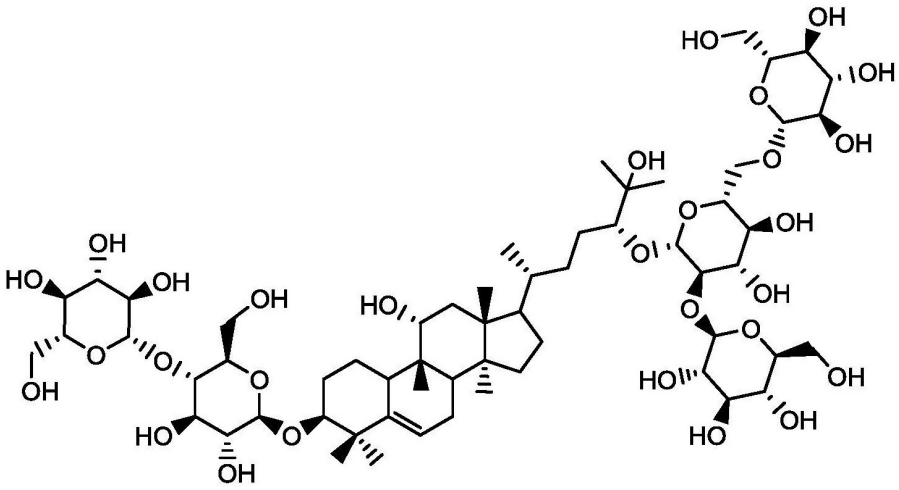
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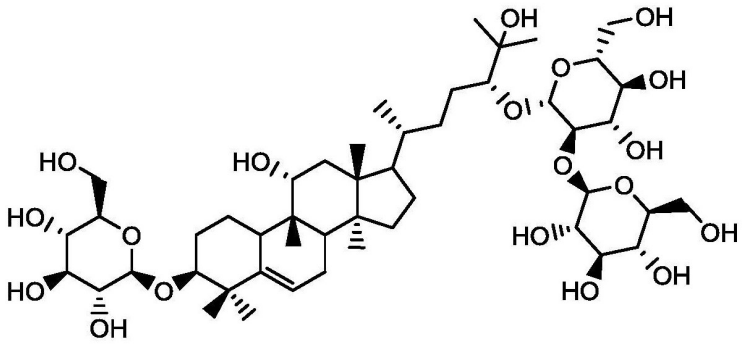
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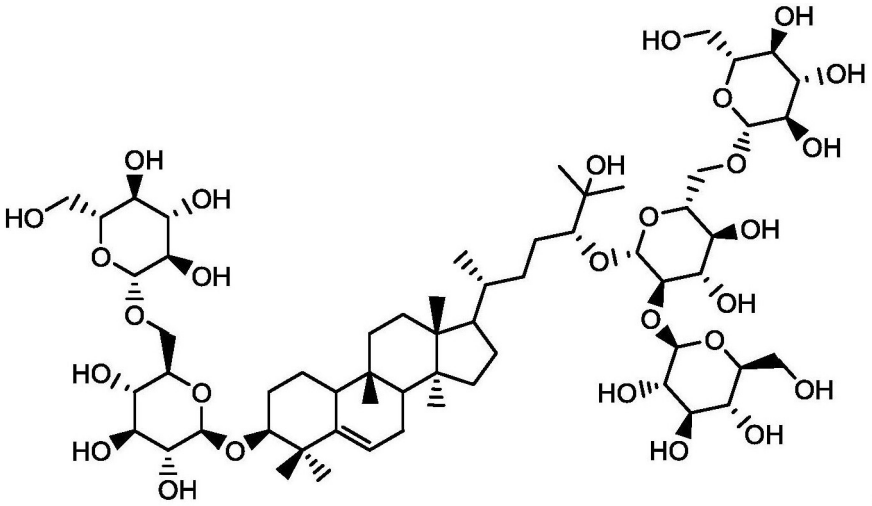
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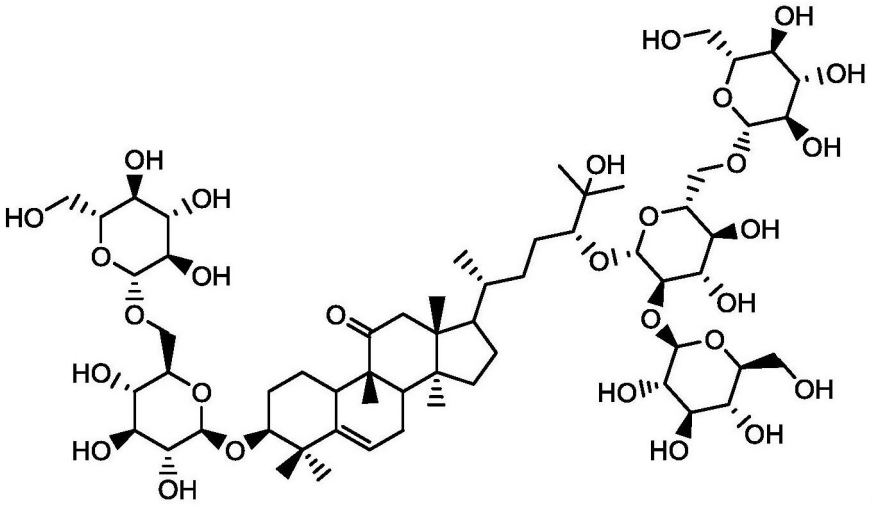
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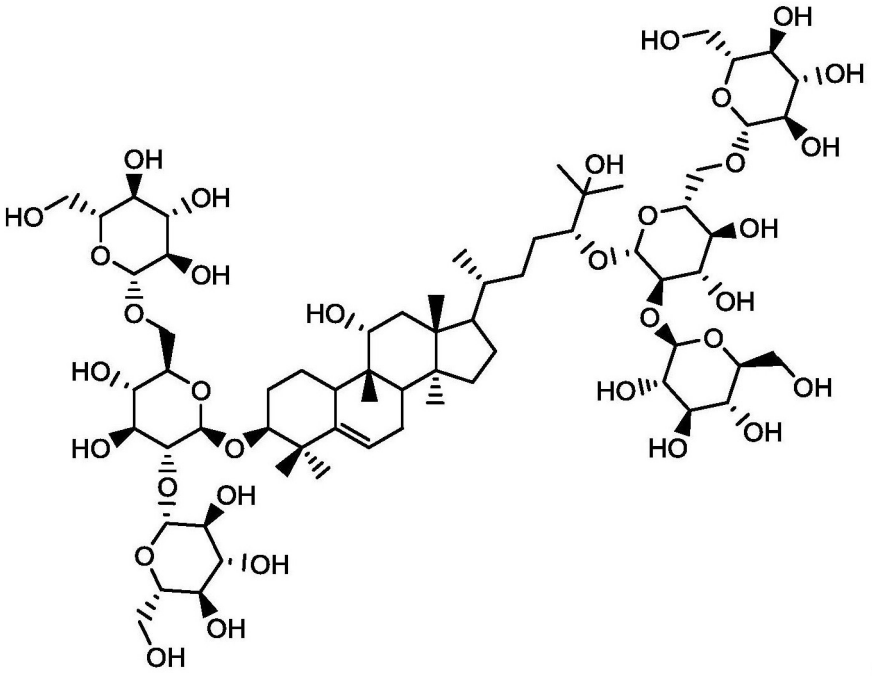
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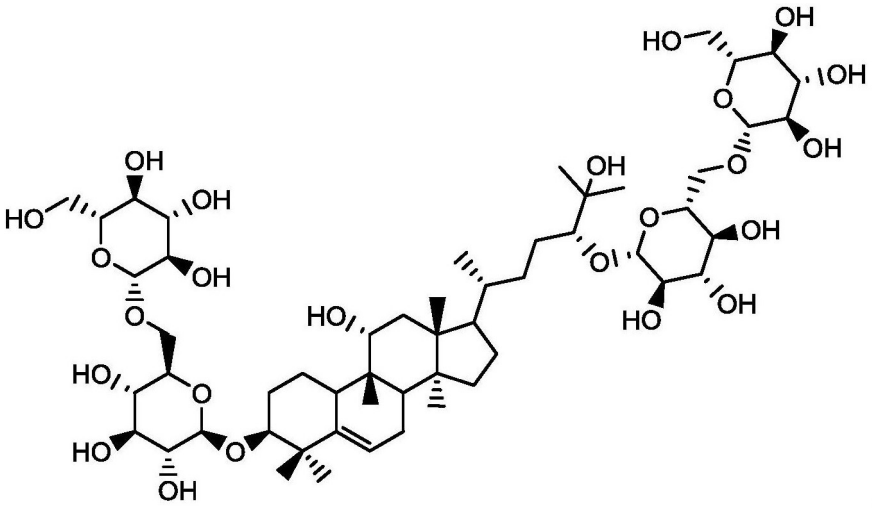
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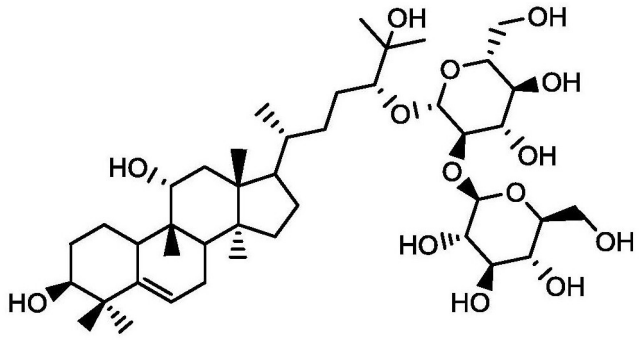
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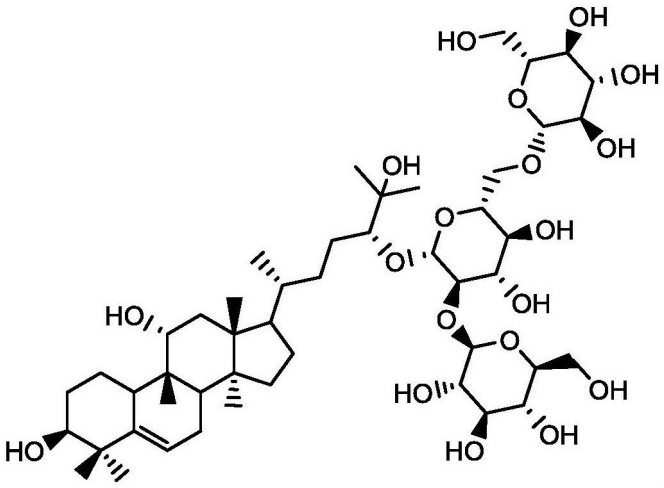
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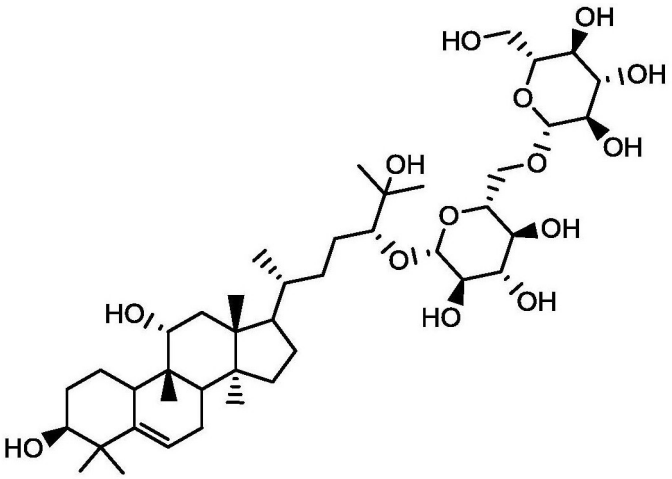
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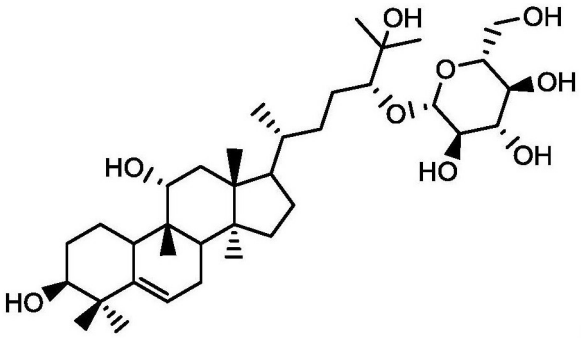
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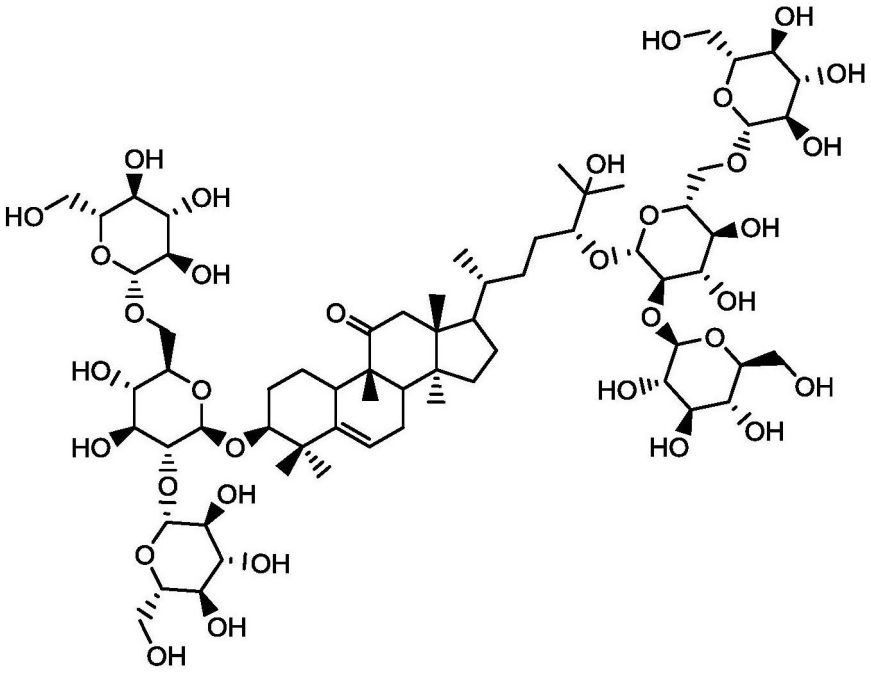
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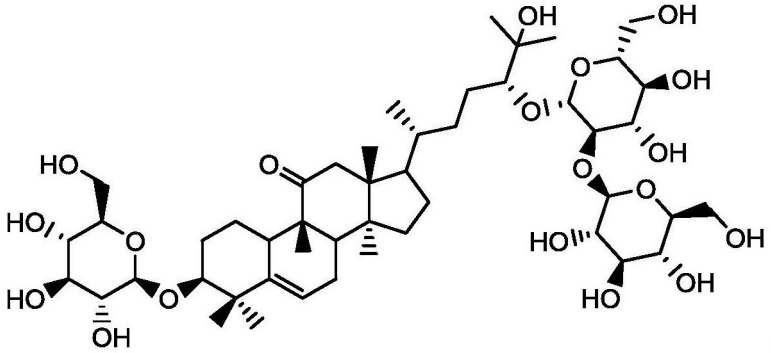
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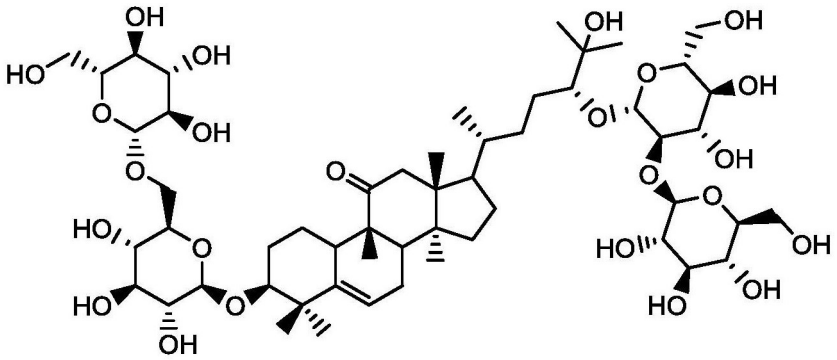
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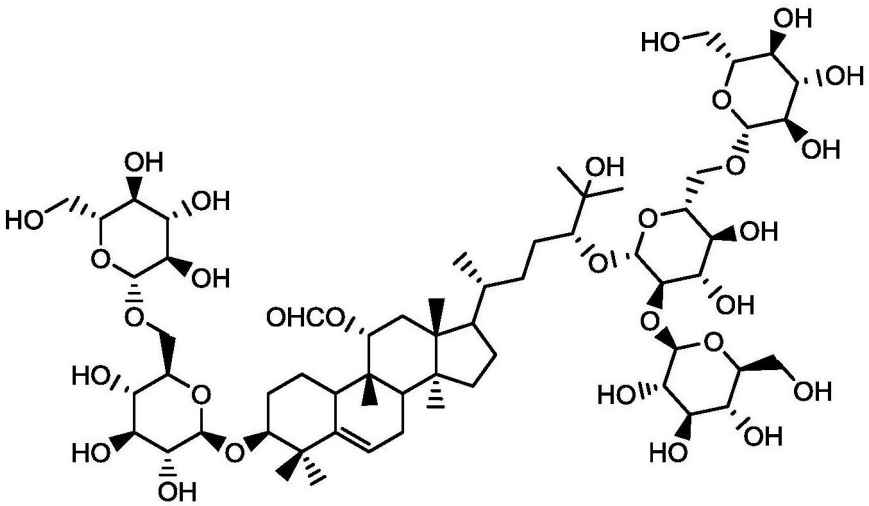
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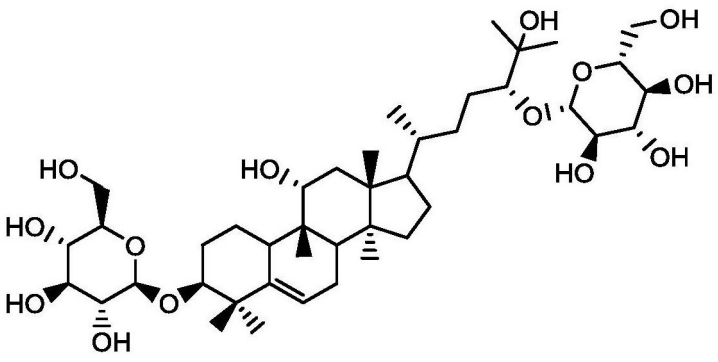
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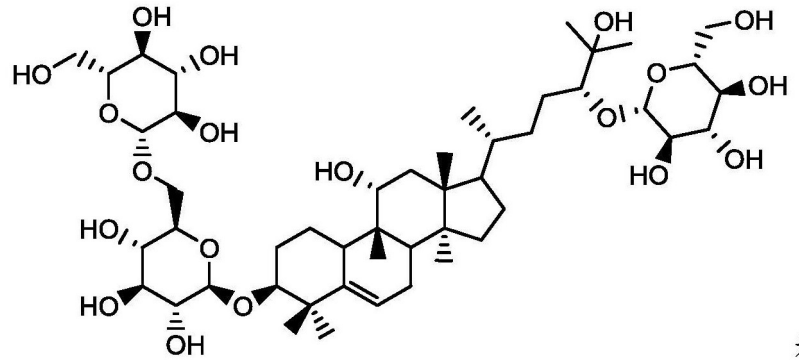
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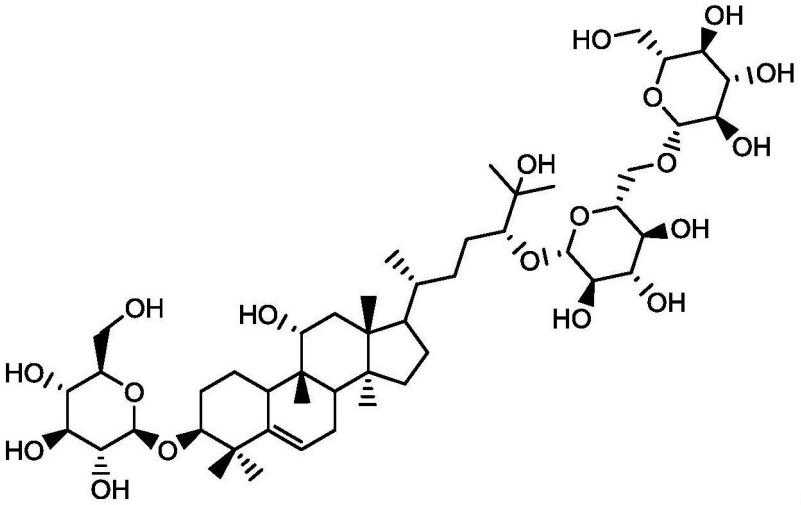
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70.如权利要求69所述的组合物，包含大于0.5重量％的所述化合物。

71.如权利要求69所述的组合物，包含大于1重量％的所述化合物。

72.如权利要求69所述的组合物，包含大于2重量％的所述化合物。

73.如权利要求69所述的组合物，包含大于3重量％的所述化合物。

74.如权利要求69所述的组合物，包含0.5重量％至5重量％的所述化合物。

75.如权利要求69所述的组合物，包含1重量％至5重量％的所述化合物。

76.如权利要求69至75中任一项所述的组合物，包含大于30重量％的所述填充剂。

77.如权利要求69至75中任一项所述的组合物，包含大于50重量％的所述填充剂。

78.如权利要求69至75中任一项所述的组合物，包含大于70重量％的所述填充剂。

79.如权利要求69至75中任一项所述的组合物，包含大于90重量％的所述填充剂。

80.如权利要求69至75中任一项所述的组合物，包含30重量％至99.5重量％的所述填充剂。

81.如权利要求69至75中任一项所述的组合物，其包含30重量％至95重量％的所述填充剂。

82.如权利要求69至75中任一项所述的组合物，其包含50重量％至99.5重量％的所述填充剂。

83.如权利要求69至82中任一项所述的组合物，其中所述填充剂选自麦芽糖糊精、右旋-麦芽糖糊精混合物、玉米糖浆固体、蔗糖、果糖、葡萄糖、转化糖、山梨糖醇、木糖、核酮糖、甘露糖、甘露糖醇、半乳糖醇、乳糖醇、异麦芽糖醇、麦芽糖、塔格糖、乳糖、菊粉、甘油、丙二醇、聚右旋糖、低聚果糖、纤维素、纤维素衍生物、赤藓糖醇及其组合。

84.如权利要求69至82中任一项所述的组合物，其中所述填充剂为麦芽糖糊精。

85.如权利要求69至82中任一项所述的组合物，其中所述填充剂为乳糖。

86.如权利要求69至82中任一项所述的组合物，其中所述填充剂为赤藓糖醇。

87.如权利要求69至82中任一项所述的组合物，其中所述填充剂为甘露糖醇。

88.如权利要求69至87中任一项所述的组合物，其中所述填充剂为颗粒形式，并且所述化合物作为颗粒上的涂层存在。

89.如权利要求69至87中任一项所述的组合物，其中所述组合物为颗粒形式。

90.如权利要求88或89所述的组合物，其中平均粒径为200μm至2mm。

91.如权利要求88或89所述的组合物，其中平均粒径为200μm至500μm。

92.如权利要求88或89所述的组合物，其中平均粒径为500μm至700μm。

93.如权利要求88或89所述的组合物，其中平均粒径为800μm至1.5mm。

94.如权利要求69至93中任一项所述的组合物，包含一种或多种另外的化合物，所述另外的化合物选自甜菊苷、瑞鲍迪苷、甘草酸、甘草甜素、GAMG(单葡糖醛酸基甘草次酸)、索马甜、莫奈林、布那珍、仙茅甜蛋白、马槟榔甜蛋白、潘塔亭、莫那甜、万年甘三萜苷、合欢树皂苷、白云参苷、bryoside、cussoracoside、青钱柳苷、无患子倍半萜苷、欧亚水龙骨甜素、巴西甘草甜素、糙苏苷、多足蕨苷、皮提罗苷、甜茶苷、夜来香苷、落蕨素A、荷南度辛、根皮苷、三叶苷、叶甜素、杜尔可苷A、gaudichaudioside A及其组合。

95.餐桌甜味剂产品，包含含有权利要求69至94中任一项所述的组合物的包。

96.如权利要求95所述的产品，其中所述包为单份包。

97.如权利要求95或96所述的产品，其中所述包具有0.2英寸至2英寸的宽度。

98.如权利要求95或96所述的产品，其中所述包具有0.5英寸至1英寸的宽度。

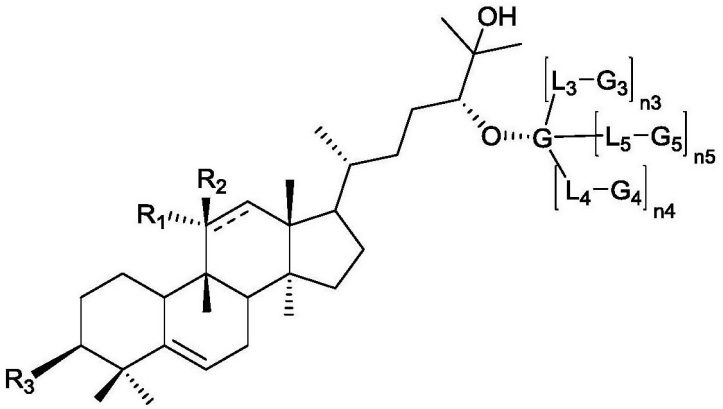
99.如权利要求95至98中任一项所述的产品，其中所述包具有1英寸至5英寸的长度。

100.如权利要求95至98中任一项所述的产品，其中所述包具有1.5英寸至3英寸的长度。

101.如权利要求95至100中任一项所述的产品，包含0.5g至3g的所述组合物。

102.如权利要求95至100中任一项所述的产品，包含0.75g至1.5g的所述组合物。

103.可摄取组合物，包含可摄取接受的成分和一种或多种具有式(I)结构的化合物：

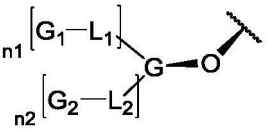


(I)

或其盐，其中：

------表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和  ；

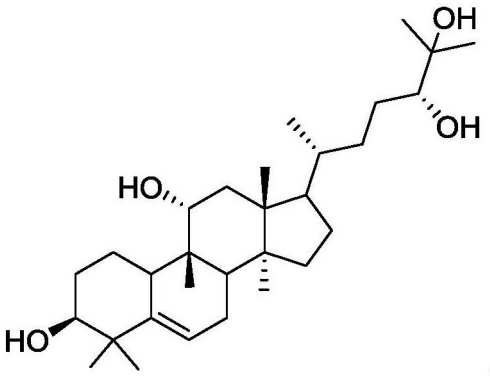
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数；

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分；

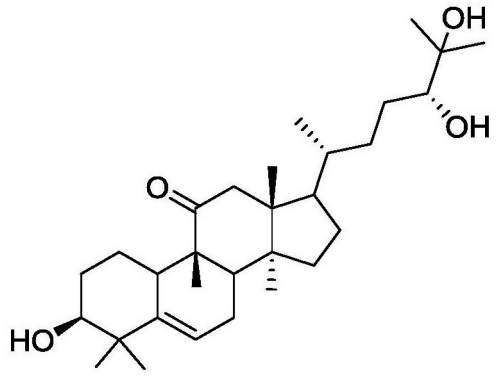
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键；以及

当------为碳-碳双键时，R_1不存在；

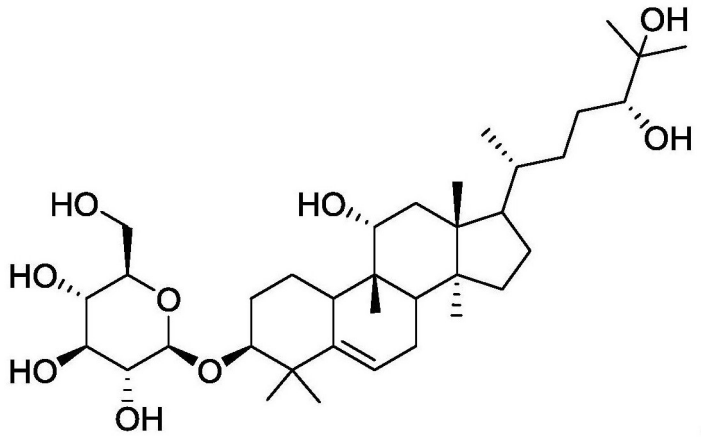
条件是式(I)不选自：


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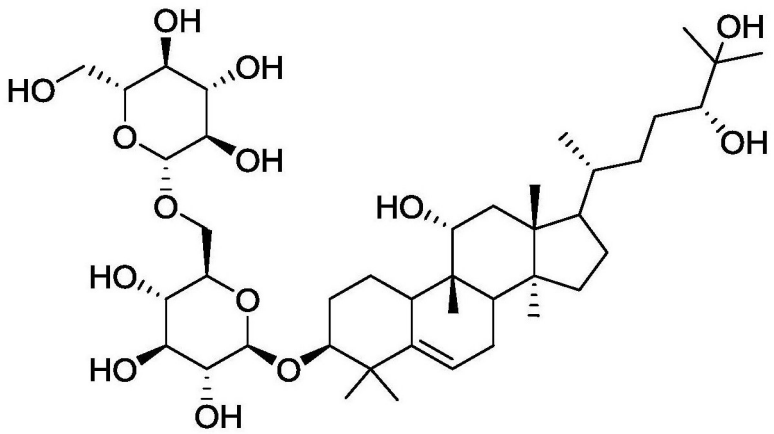
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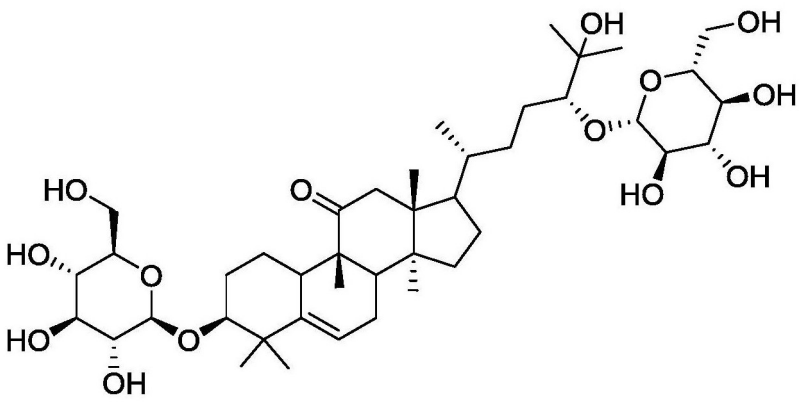
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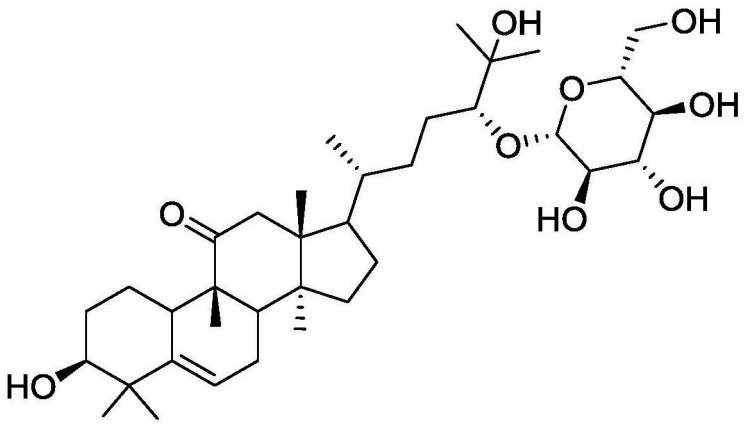
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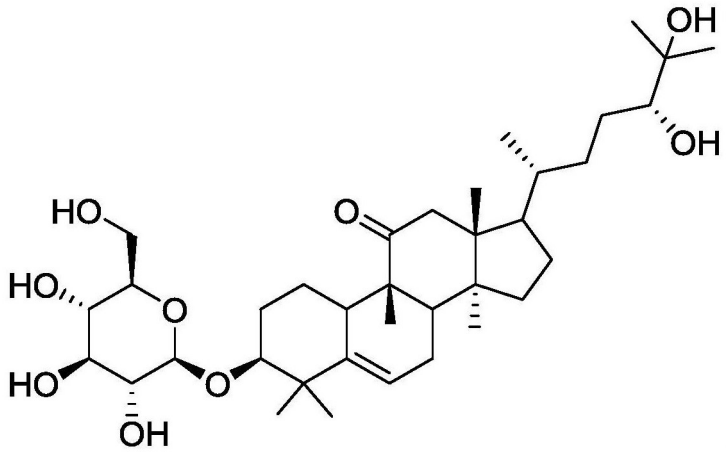
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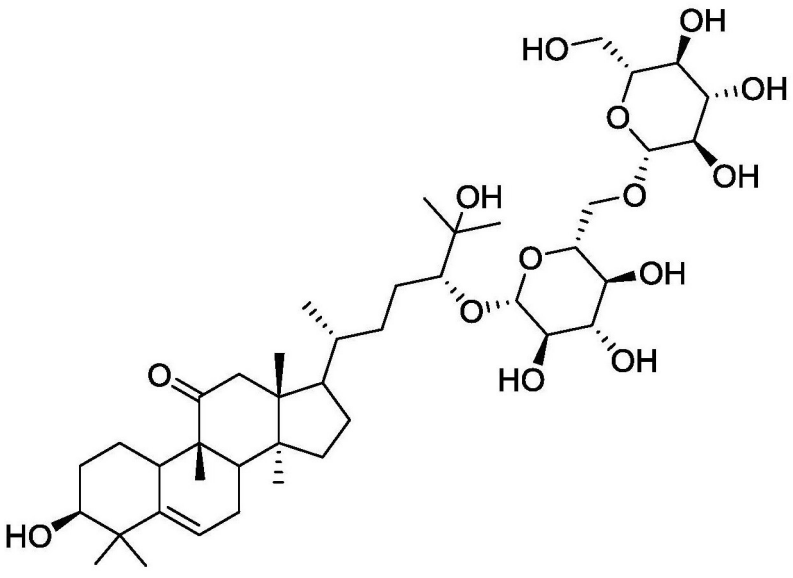
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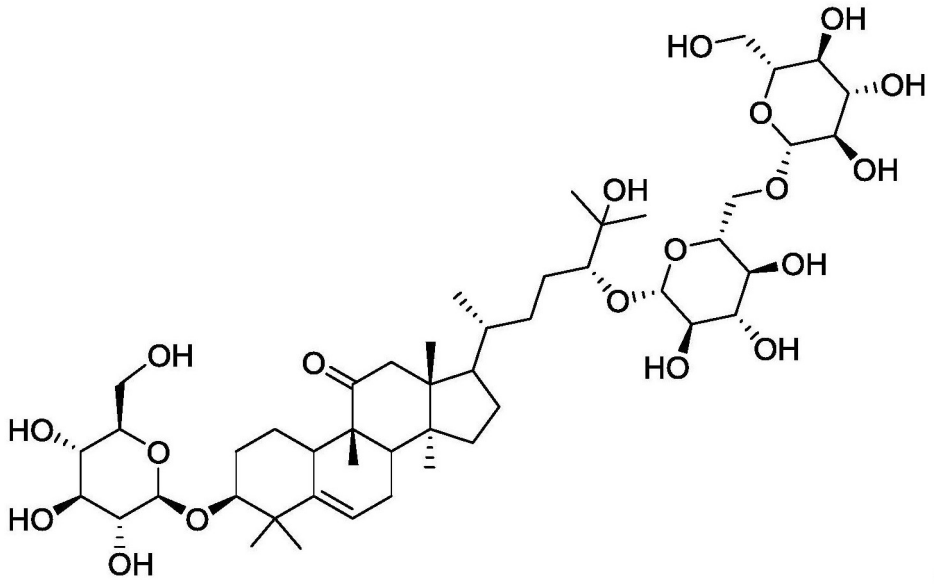
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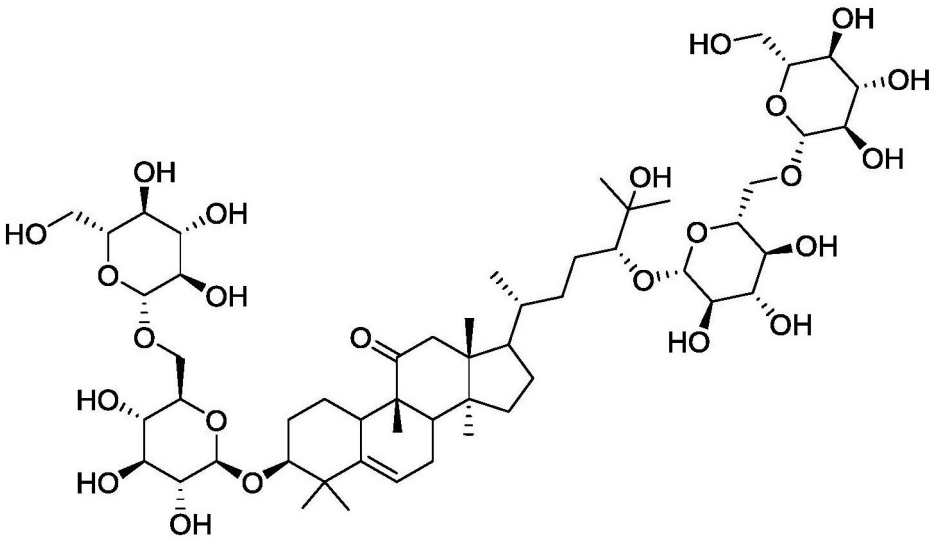
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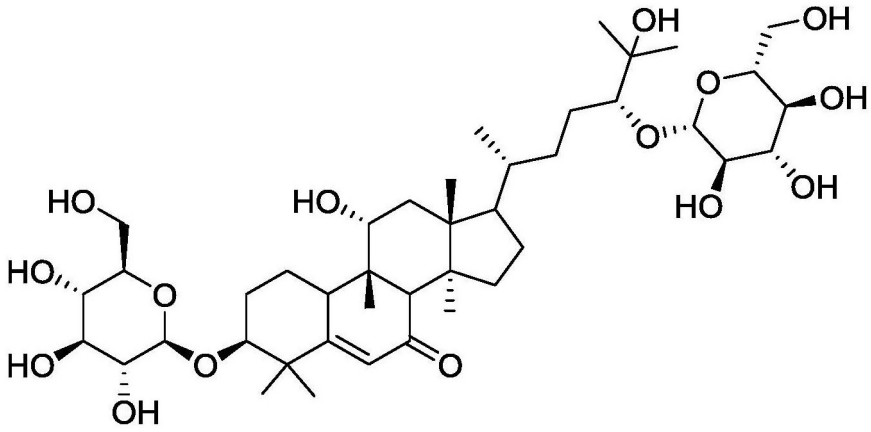
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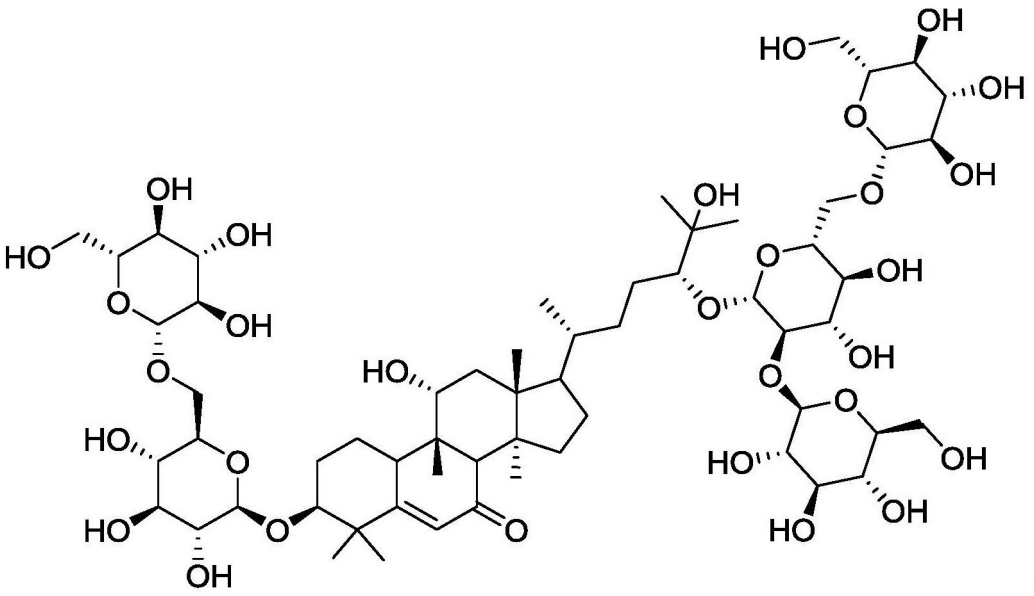
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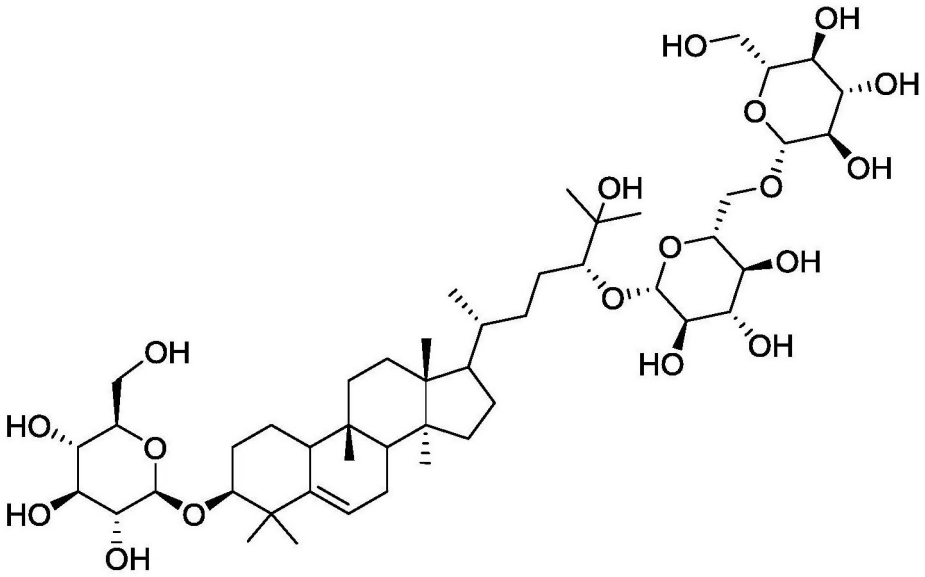
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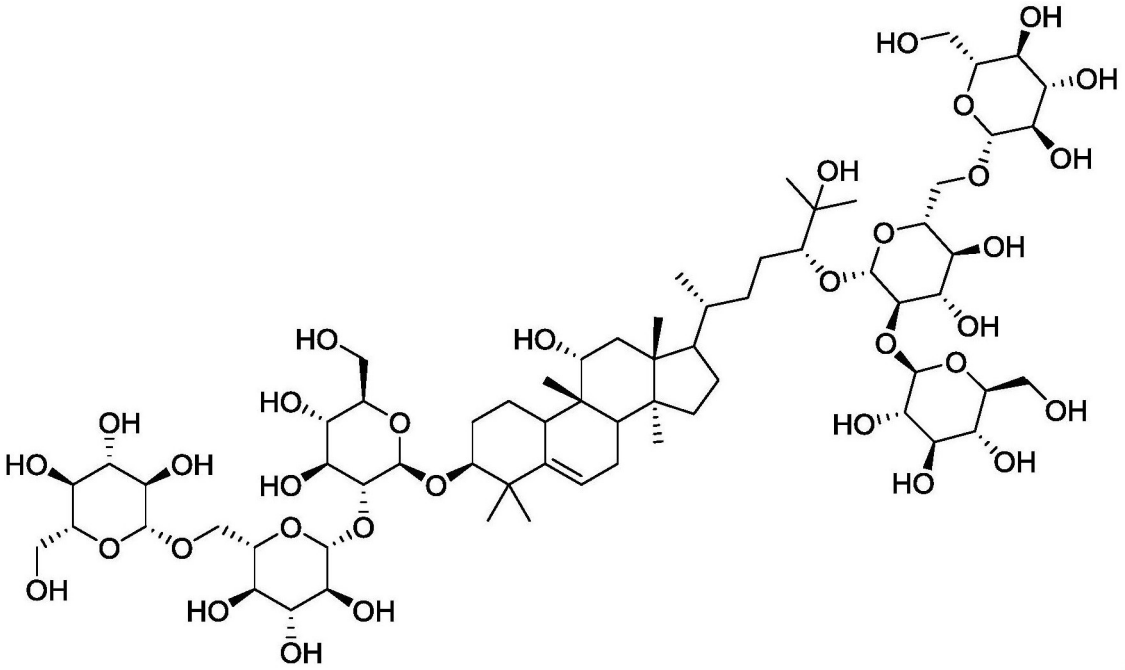
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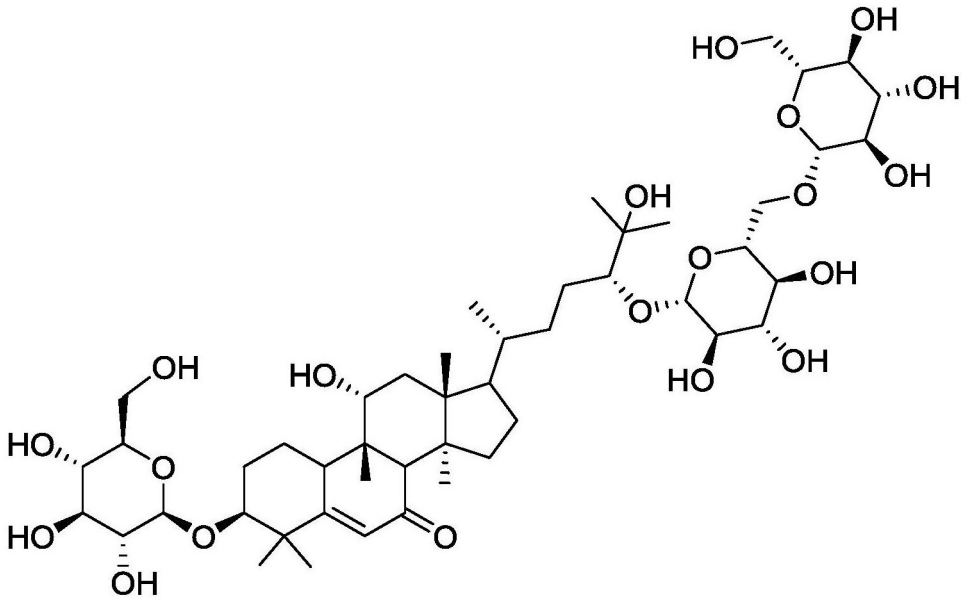
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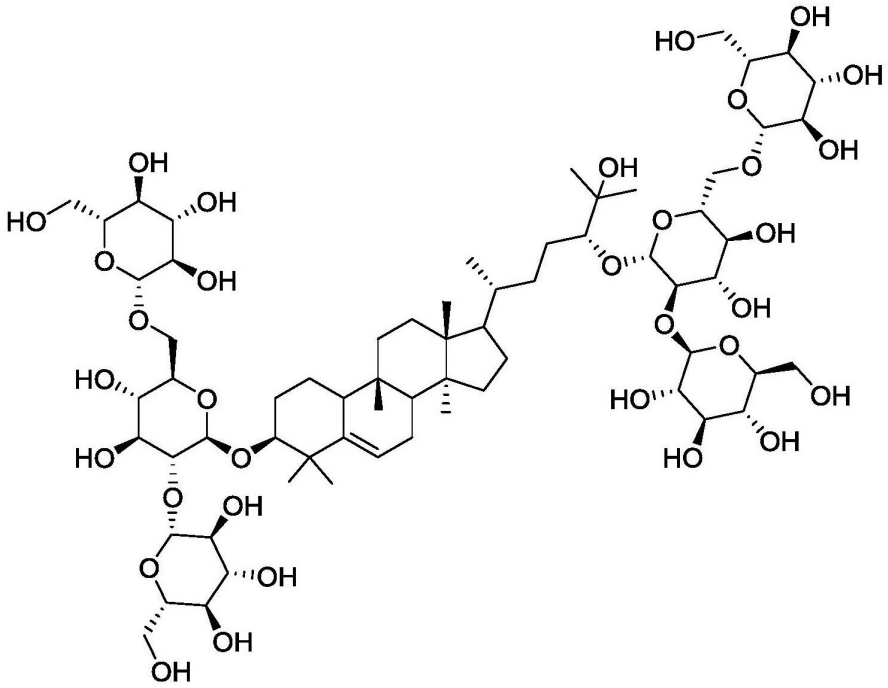
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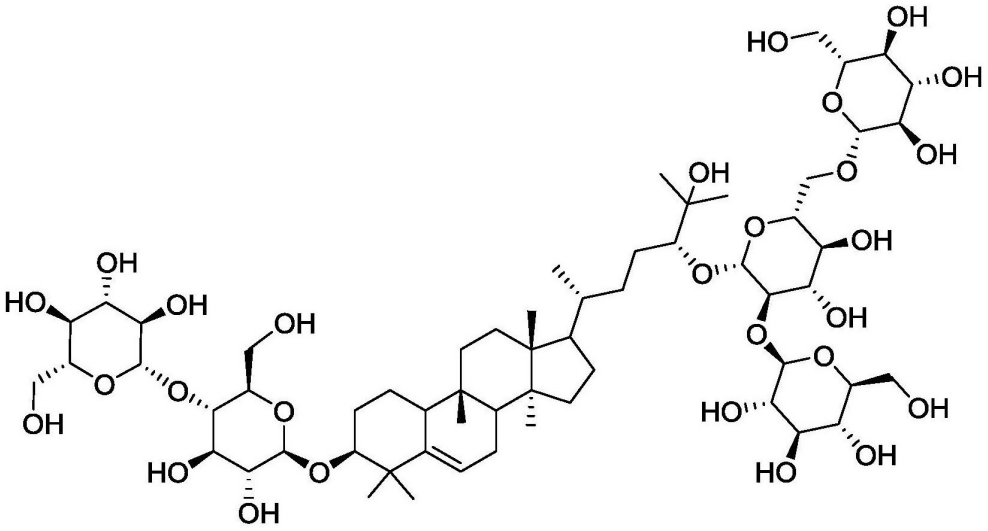
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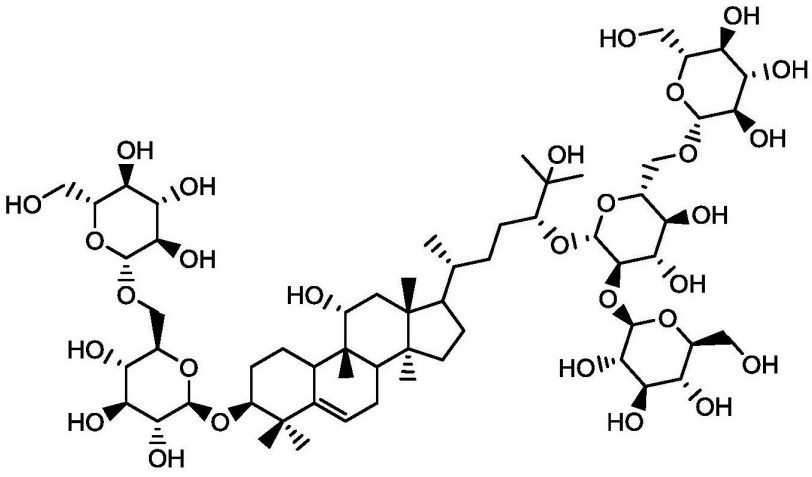
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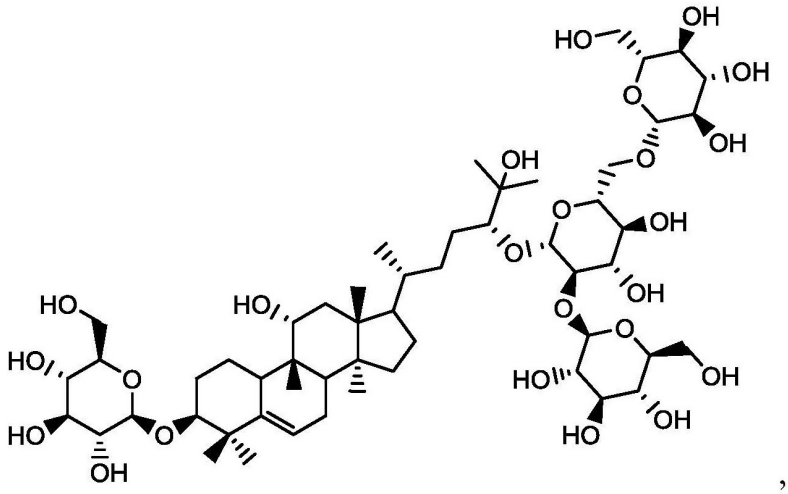
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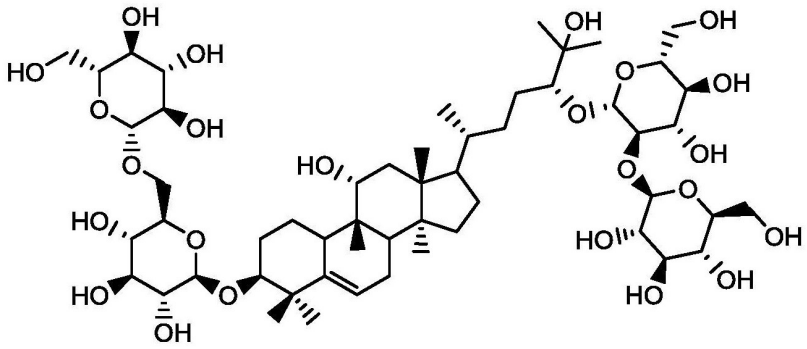
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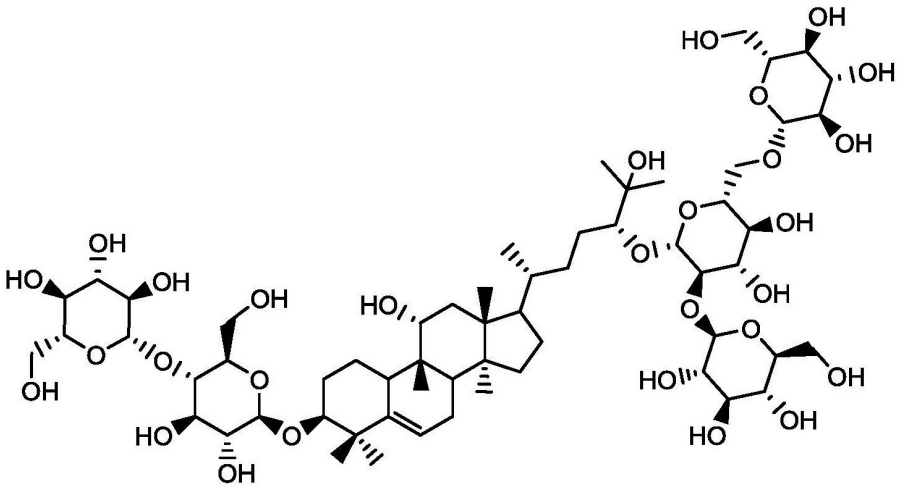
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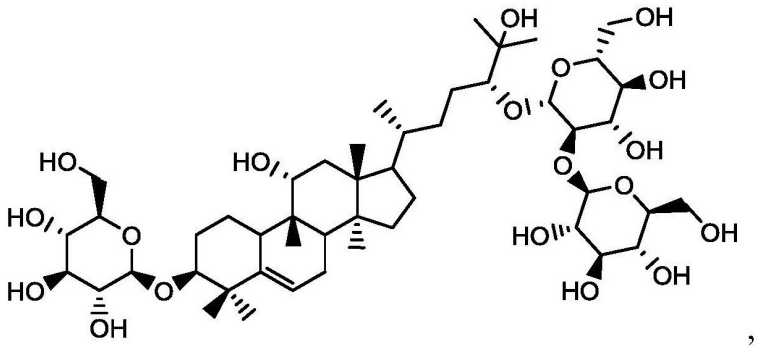
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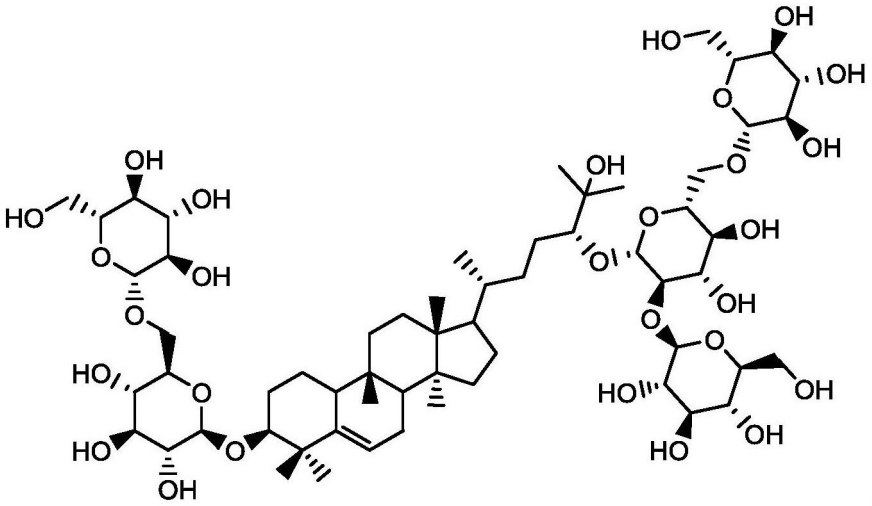
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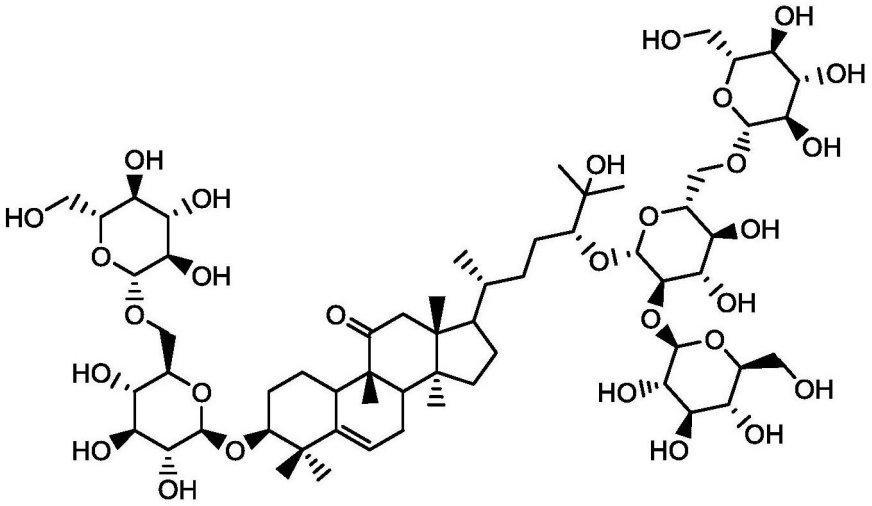
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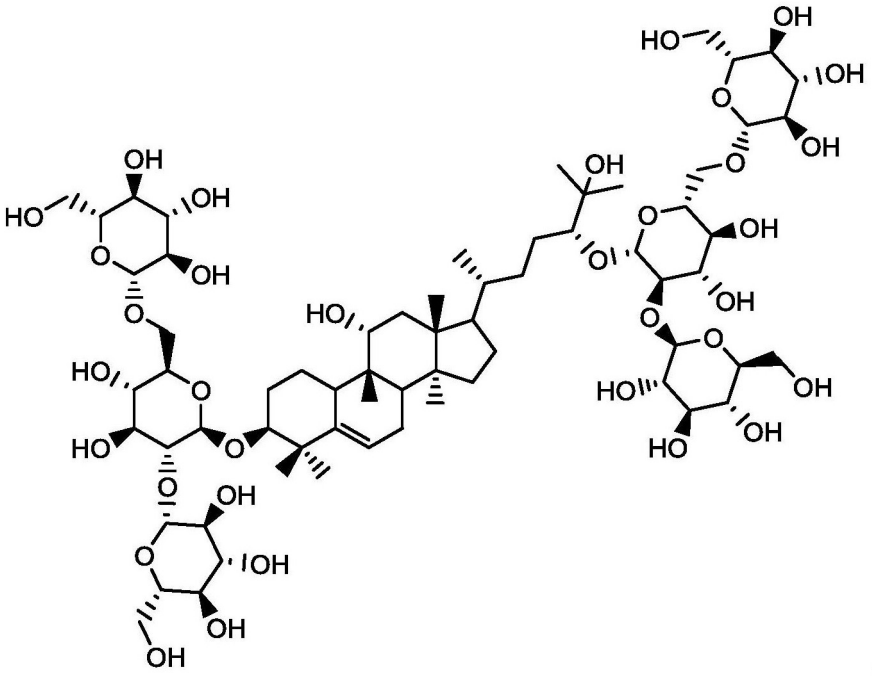
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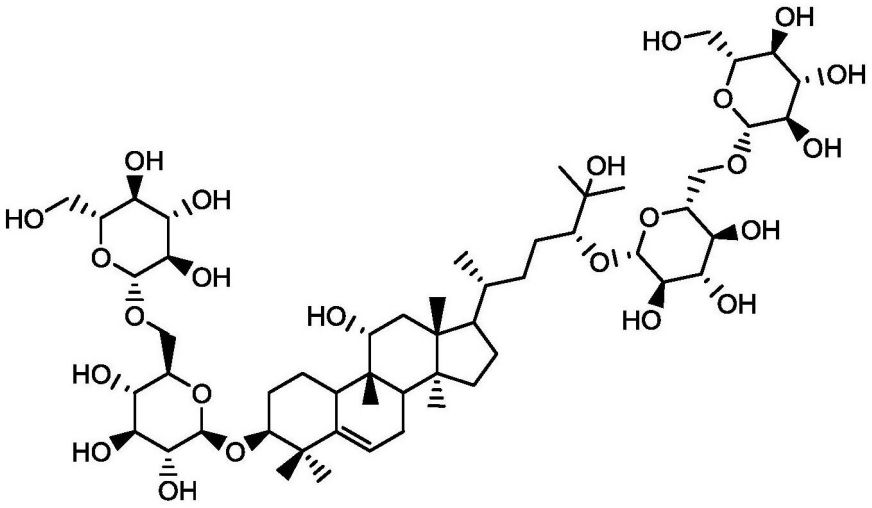
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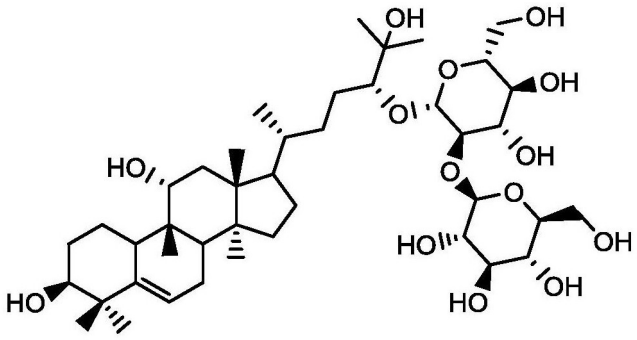
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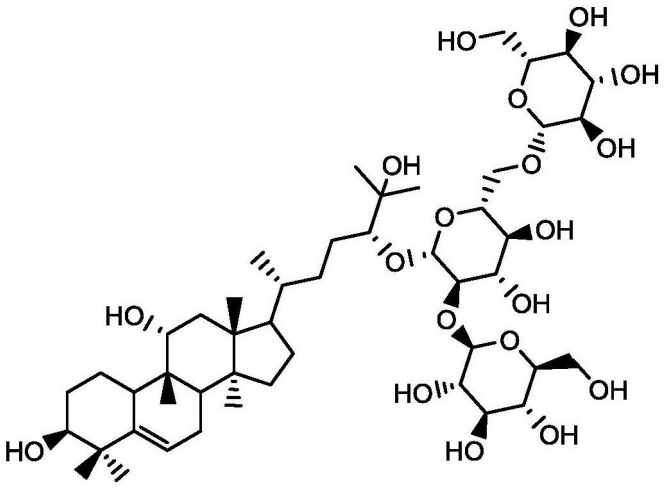
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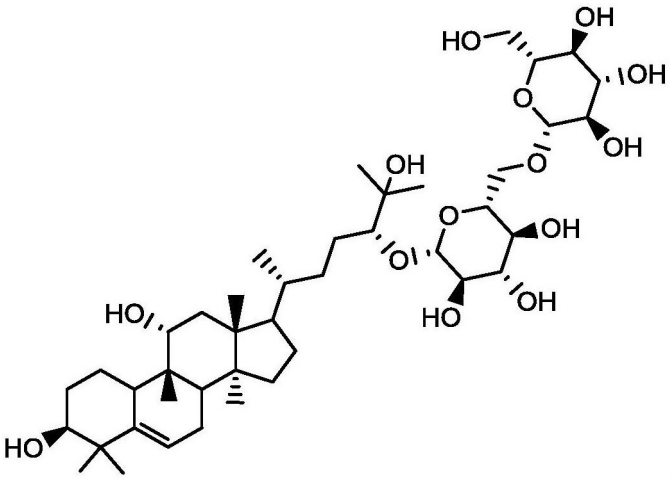
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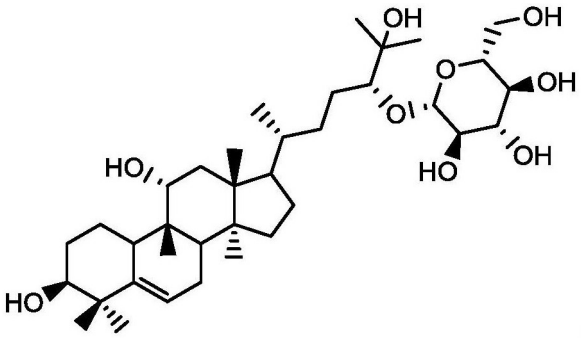
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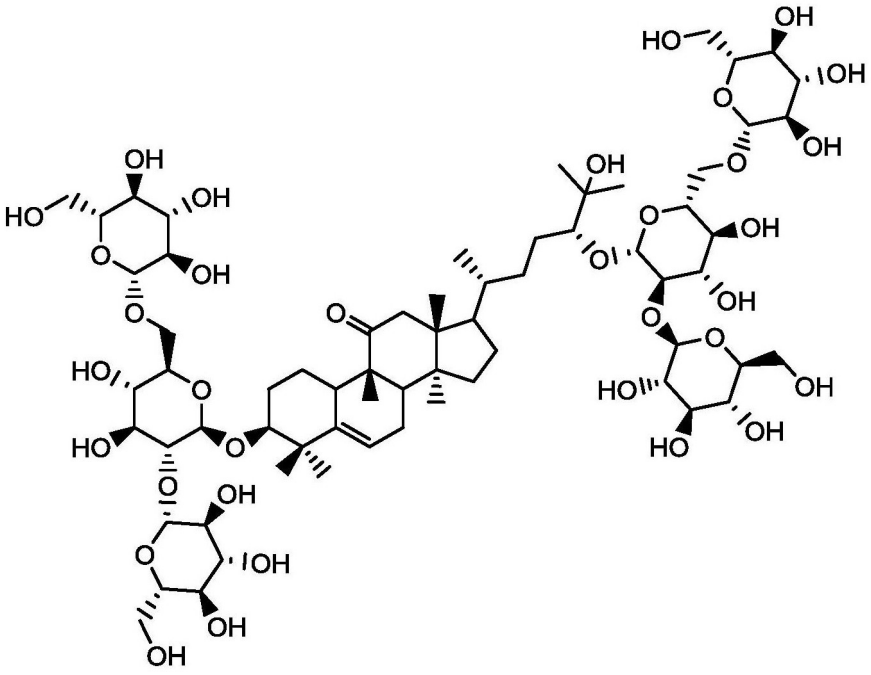
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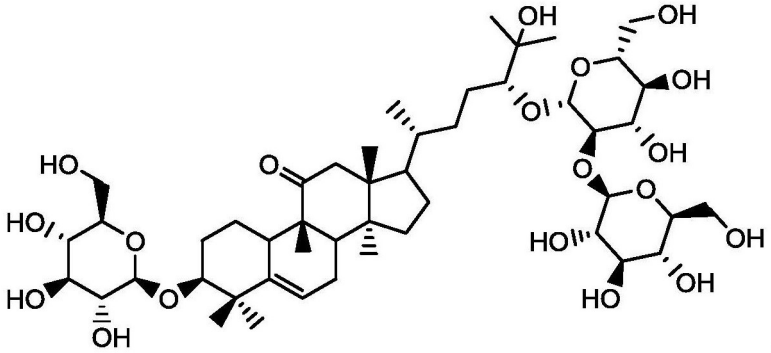
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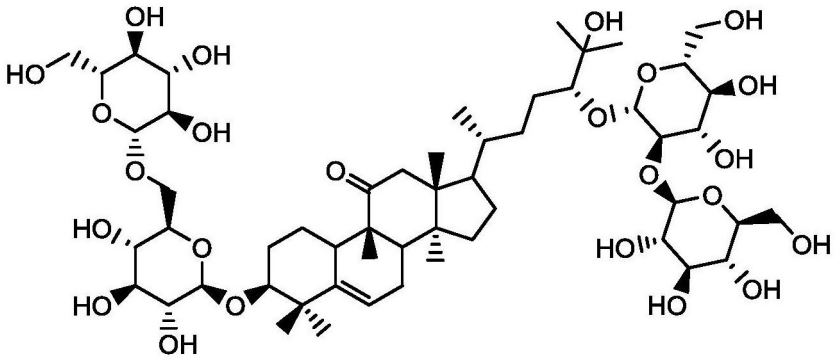
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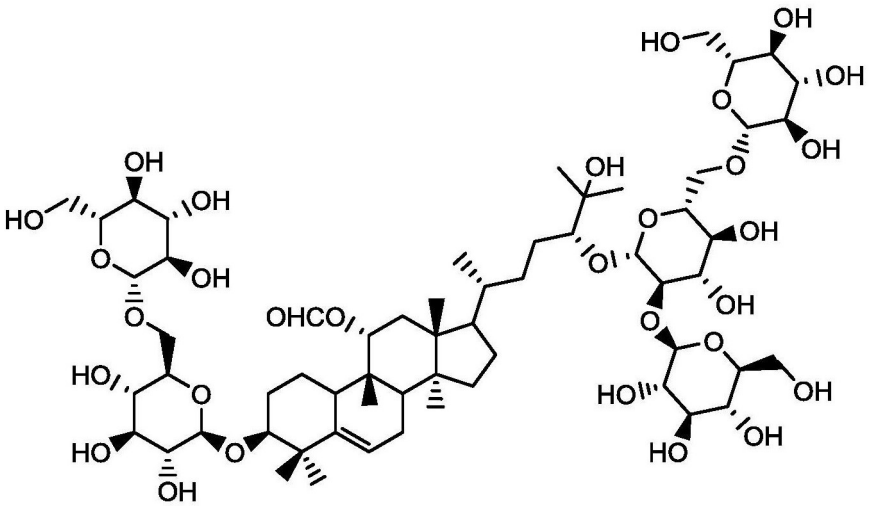
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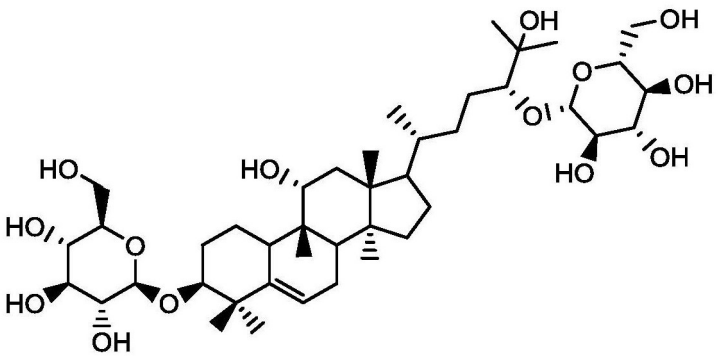
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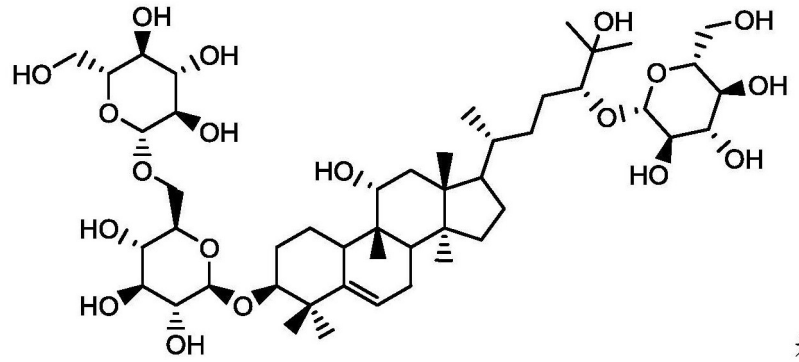
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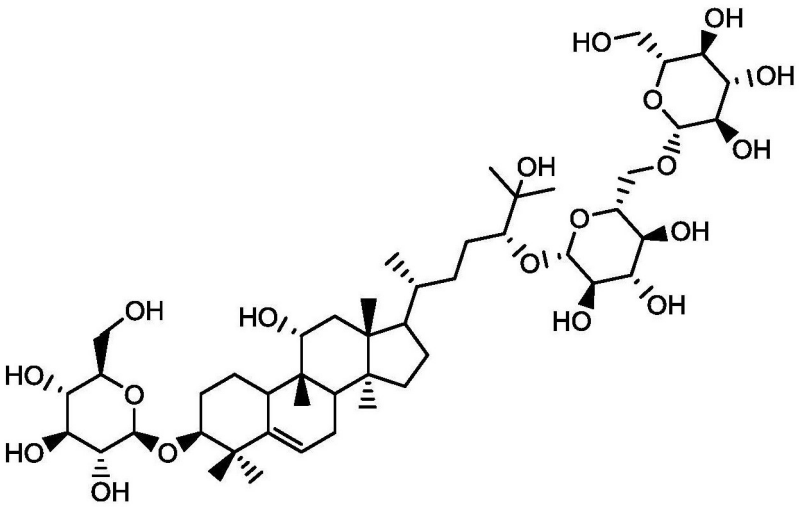
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其中所述化合物在所述组合物中的浓度大于100ppm。

104.如权利要求103所述的组合物，其中所述化合物的浓度大于300ppm。

105.如权利要求103所述的组合物，其中所述化合物的浓度大于500ppm。

106.如权利要求103所述的组合物，其中所述化合物的浓度大于800ppm。

107.如权利要求103所述的组合物，其中所述化合物的浓度为300ppm至4000ppm。

108.如权利要求103所述的组合物，其中所述化合物的浓度为300ppm至2000ppm。

109.如权利要求103所述的组合物，其中所述化合物的浓度为800ppm至1500ppm。

110.如权利要求103至109中任一项所述的组合物，其中所述组合物为食品或饮料产品。

111.如权利要求110所述的组合物，其中所述可摄取接受的成分包含蔬菜汁、水果汁、啤酒或红酒。

112.如权利要求110所述的组合物，其中所述可摄取接受的成分包含酸。

113.如权利要求112所述的组合物，其中所述酸为柠檬酸或磷酸。

114.如权利要求110所述的组合物，其中所述可摄取接受的成分包含苦味剂。

115.如权利要求110所述的组合物，其中所述可摄取接受的成分包含着色剂。

116.如权利要求110所述的组合物，其中所述可摄取接受的成分包含防腐剂。

117.如权利要求110所述的组合物，其中所述可摄取接受的成分包含功能性成分。

118.如权利要求110所述的组合物，其中所述可摄取接受的成分包含缓冲液。

119.如权利要求110所述的组合物，其中所述可摄取接受的成分包含天然调味料。

120.如权利要求110所述的组合物，其中所述可摄取接受的成分包含人造调味料。

121.如权利要求110所述的组合物，其中所述可摄取接受的成分包含食品添加剂。

122.如权利要求110所述的组合物，其中所述可摄取接受的成分包含酸味调味剂。

123.如权利要求110所述的组合物，其中所述可摄取接受的成分包含一种或多种脂肪、油或乳剂。

124.如权利要求110所述的组合物，其中所述可摄取接受的成分包含面粉或蔬菜粉。

125.如权利要求110所述的组合物，其中所述食品或饮料产品选自可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料以及冰沙。

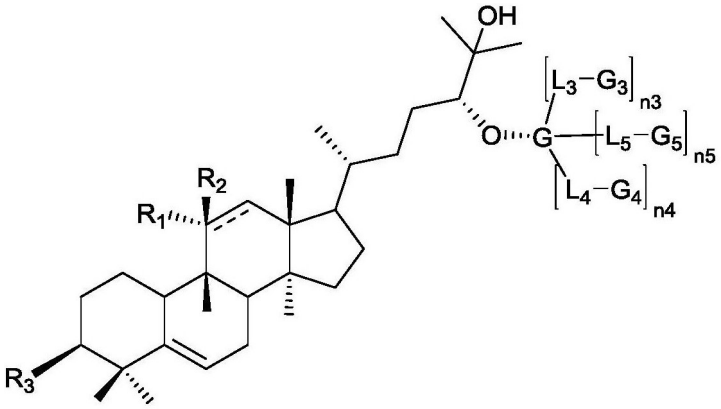
126.如权利要求110所述的组合物，其中所述食品或饮料产品为软饮料。

127.如权利要求110至126中任一项所述的组合物，其中所述组合物为具有小于7的pH的溶液。

128.如权利要求110至126中任一项所述的组合物，其中所述组合物为具有1至5的pH的溶液。

129.如权利要求110至128中任一项所述的组合物，包含一种或多种另外的化合物，所述另外的化合物选自甜菊苷、瑞鲍迪苷、甘草酸、甘草甜素、GAMG(单葡糖醛酸基甘草次酸)、索马甜、莫奈林、布那珍、仙茅甜蛋白、马槟榔甜蛋白、潘塔亭、莫那甜、万年甘三萜苷、合欢树皂苷、白云参苷、bryoside、cussoracoside、青钱柳苷、无患子倍半萜苷、欧亚水龙骨甜素、巴西甘草甜素、糙苏苷、多足蕨苷、皮提罗苷、甜茶苷、夜来香苷、落蕨素A荷南度辛、根皮苷、三叶苷、叶甜素、杜尔可苷A、gaudichaudioside A及其组合。

130.增强可摄取组合物的甜味的方法，包括将所述可摄取组合物与至少一种式(I)的化合物结合：

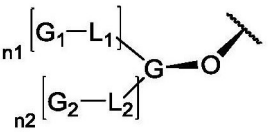


(I)

或其盐，其中：

┄┄┄表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和  ;

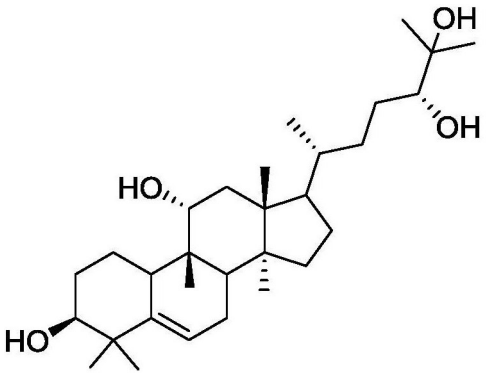
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数;

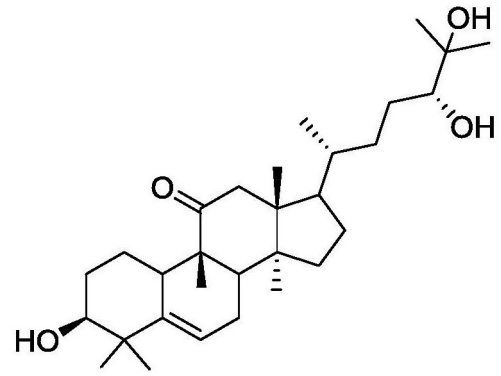
各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分;

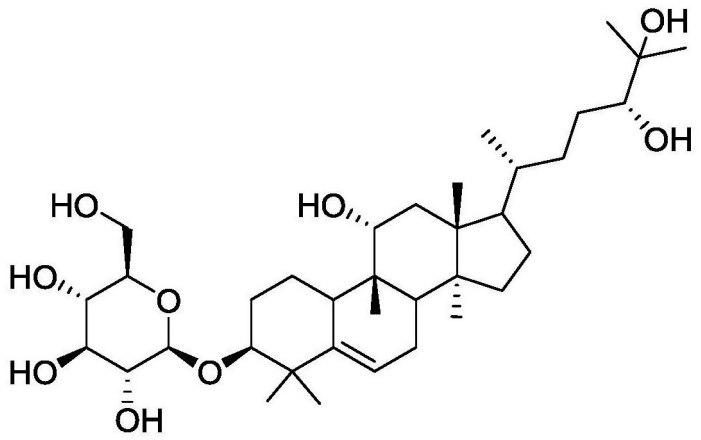
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键;以及

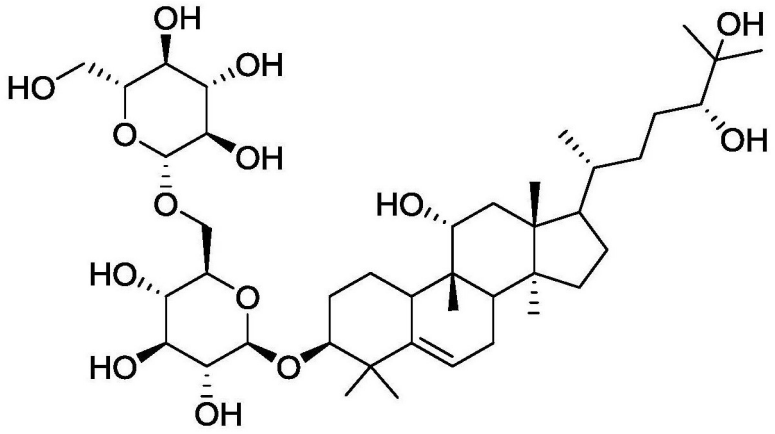
当═══为碳-碳双键时,R_1不存在;

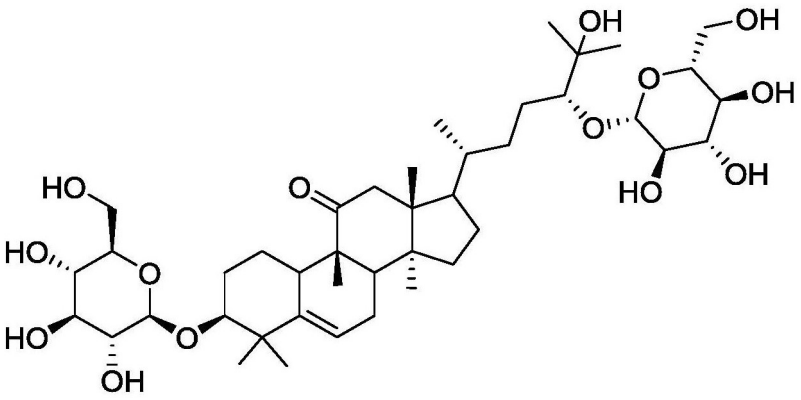
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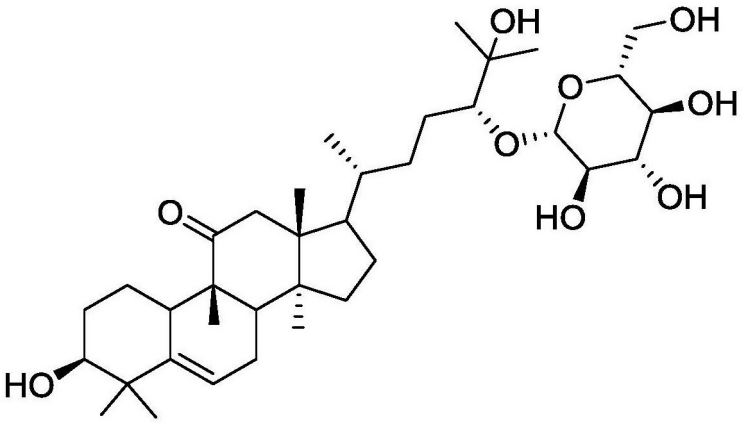
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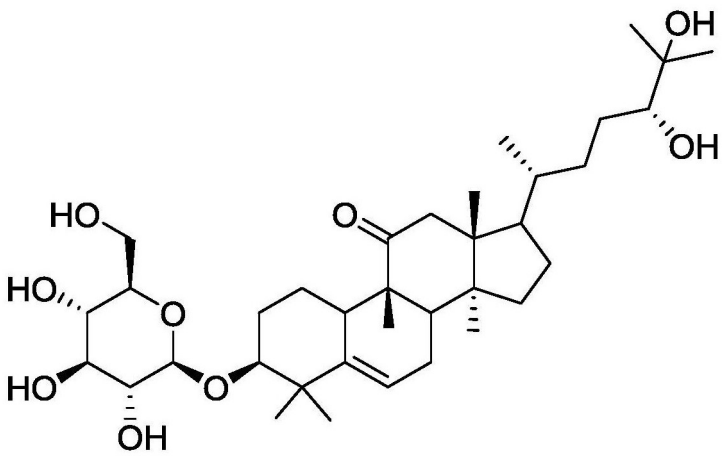
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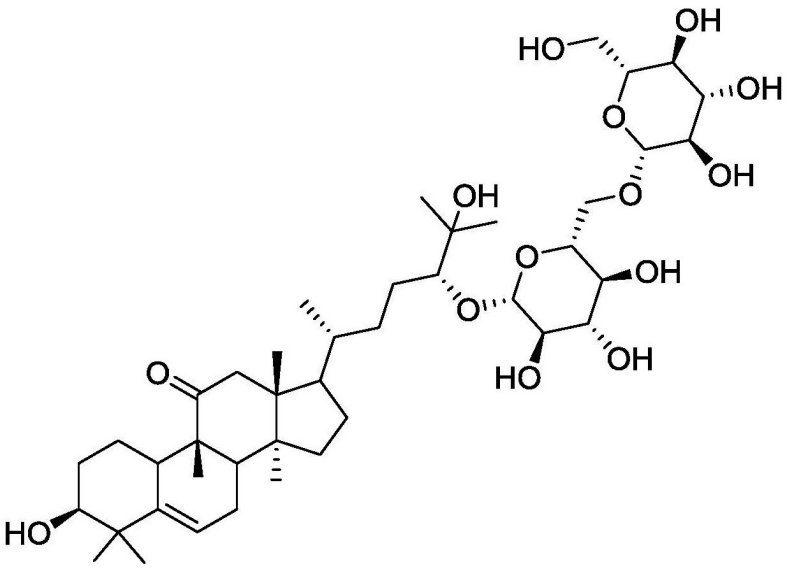
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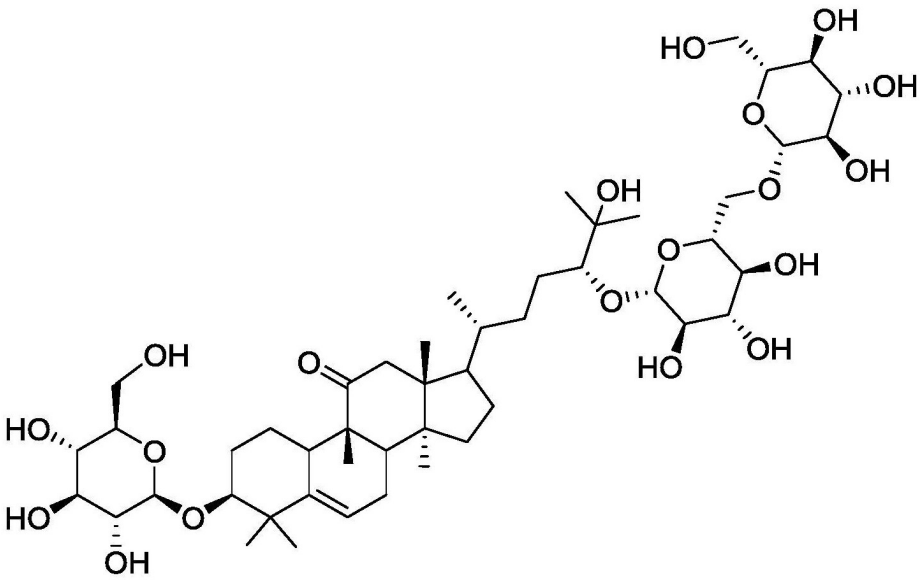
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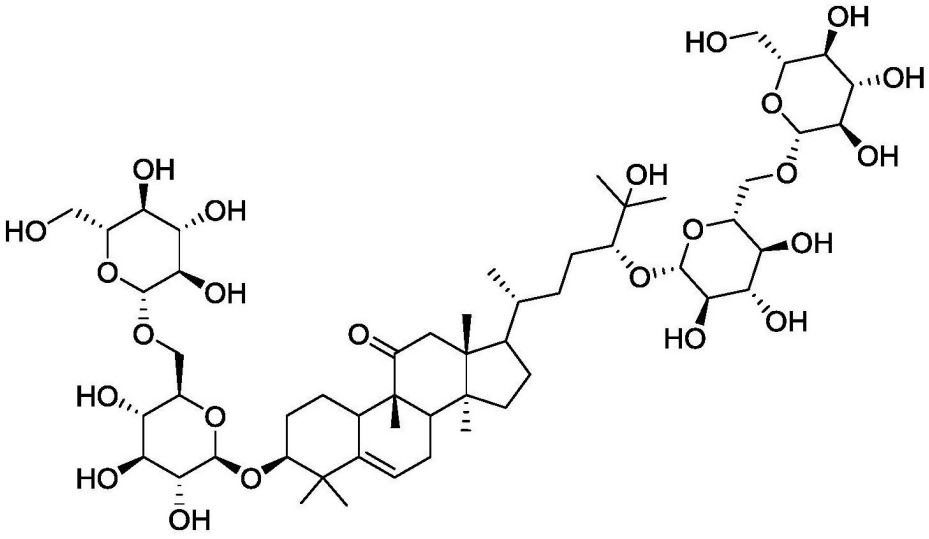
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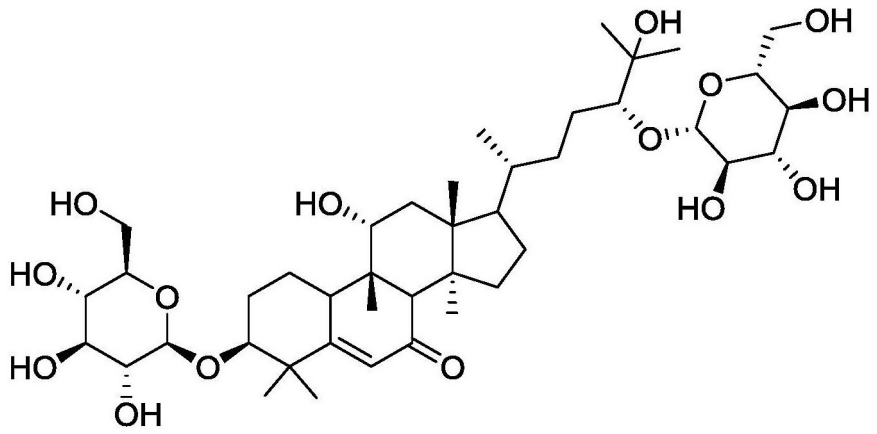
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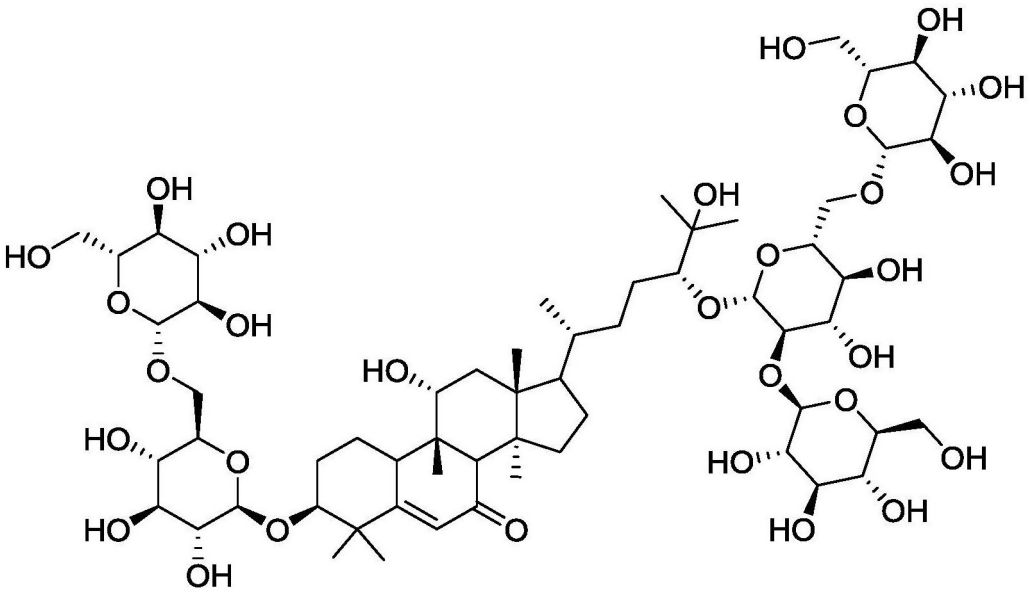
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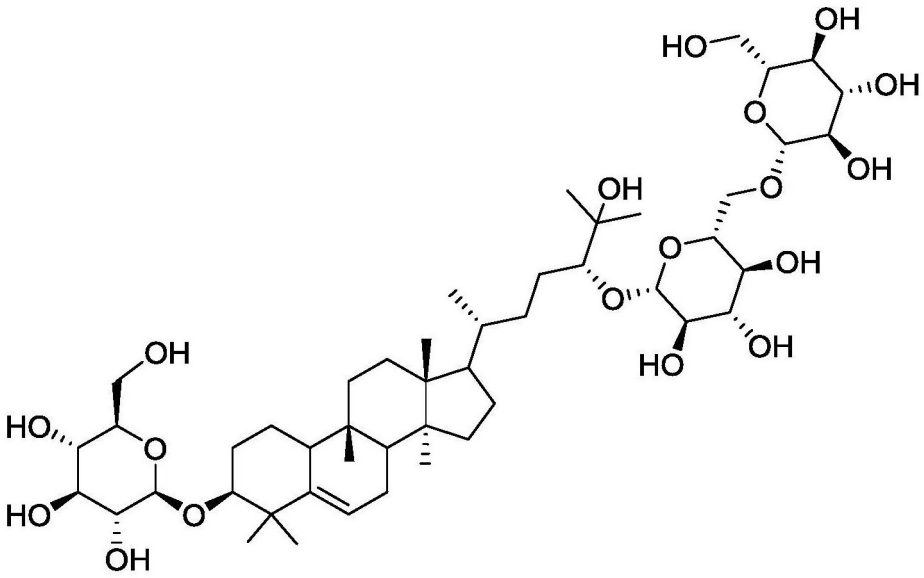
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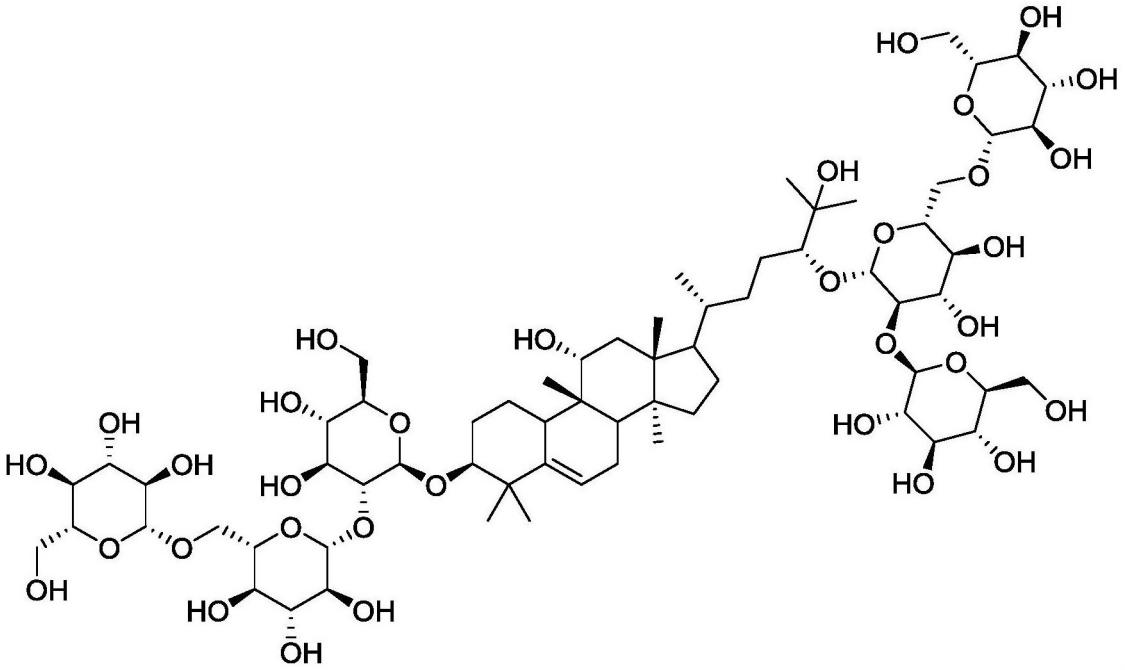
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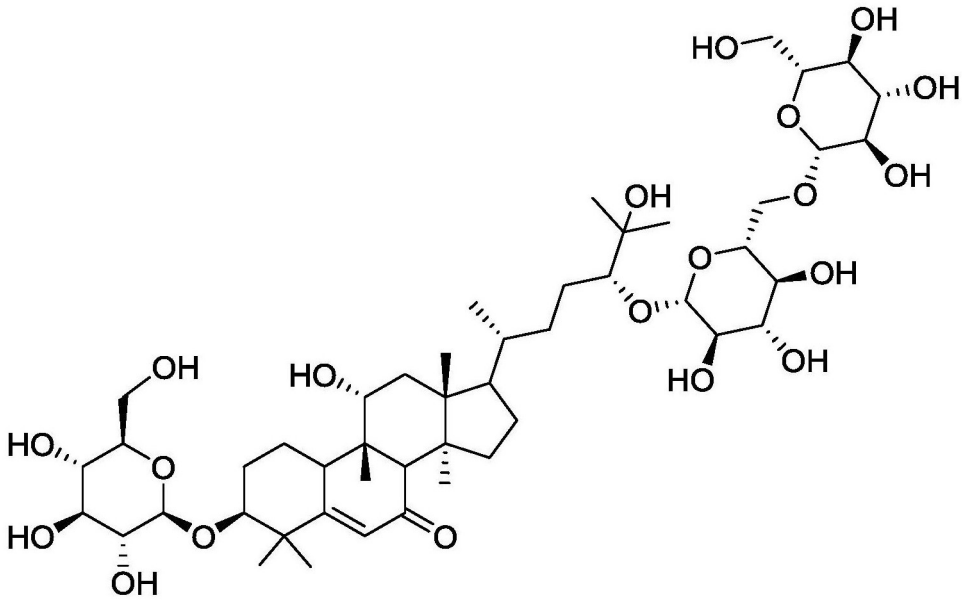
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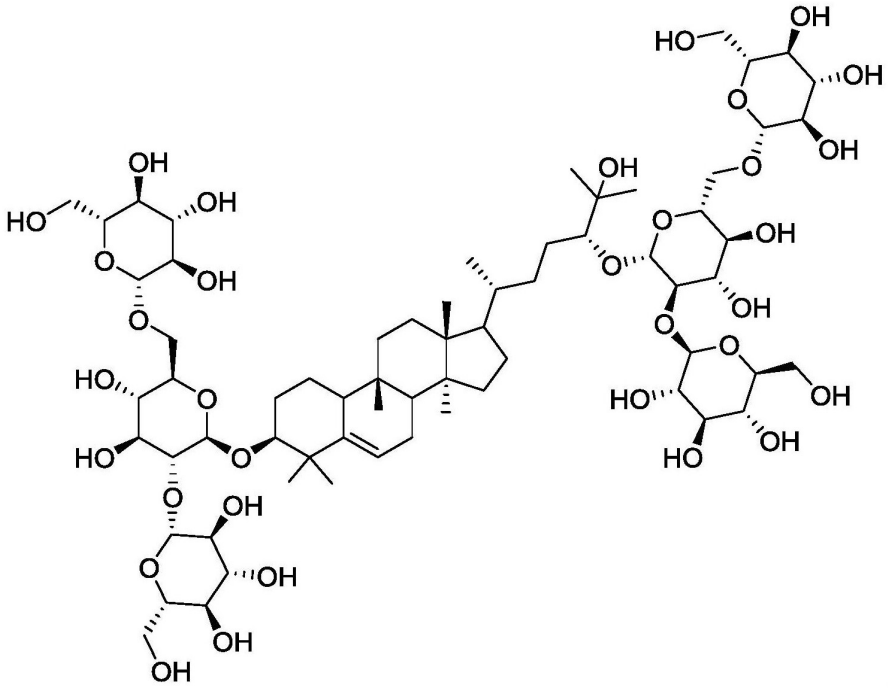
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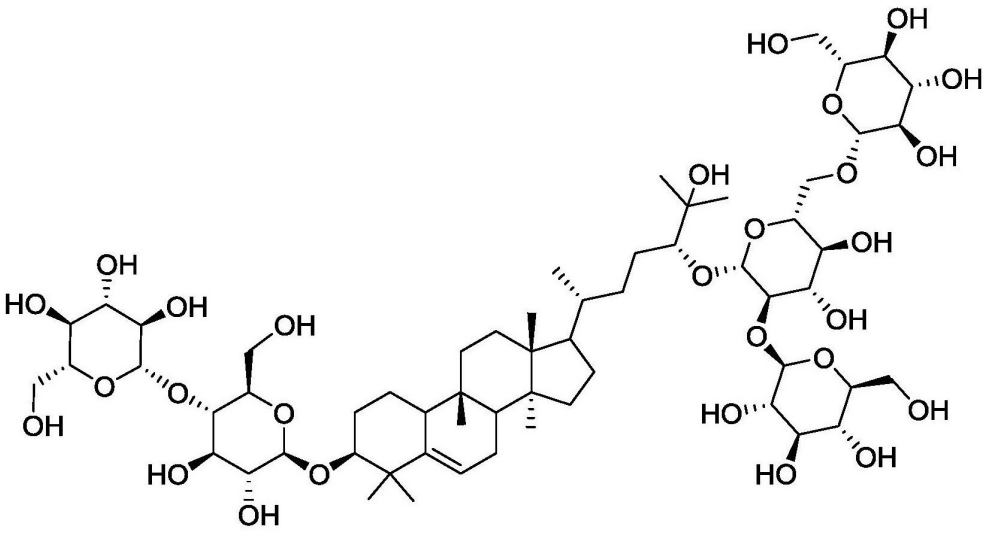
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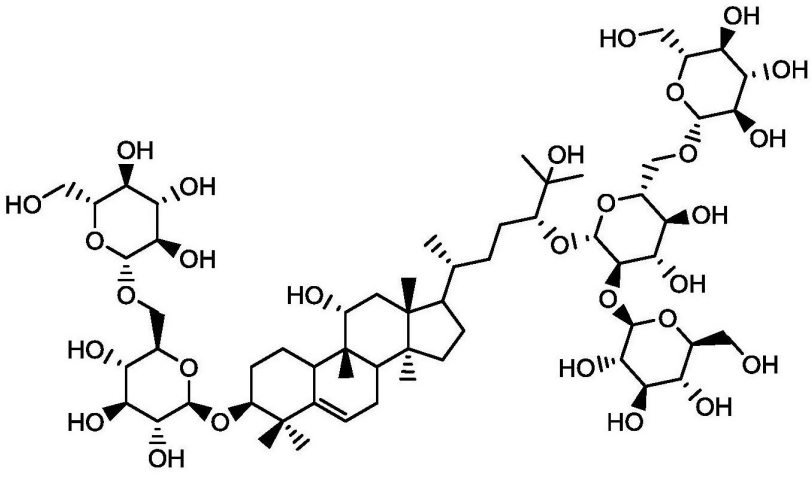
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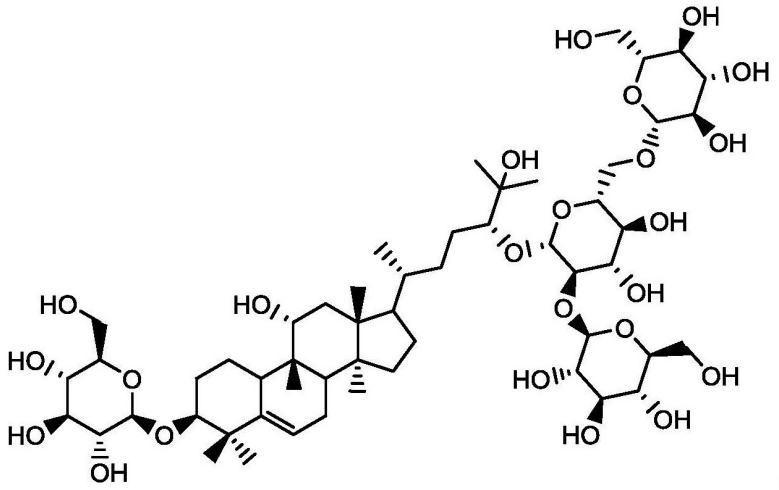
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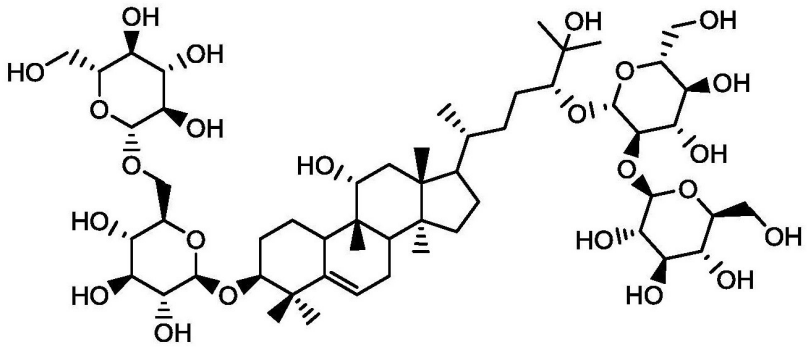
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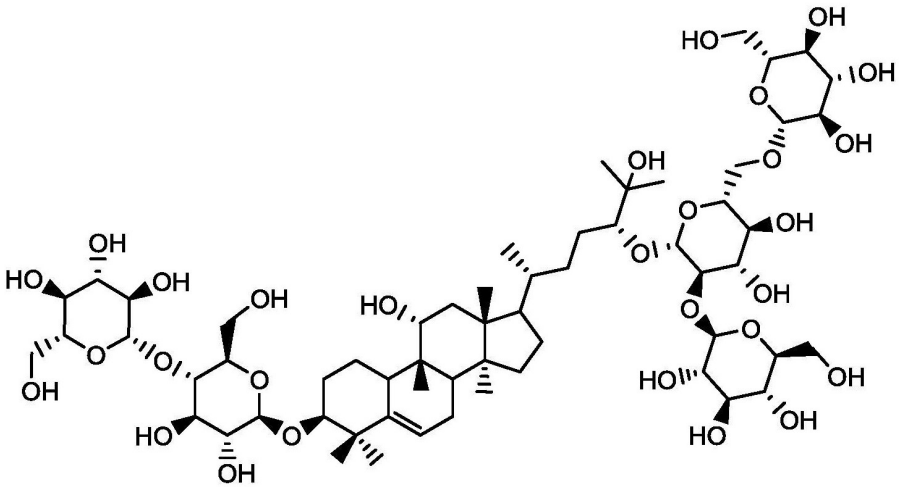
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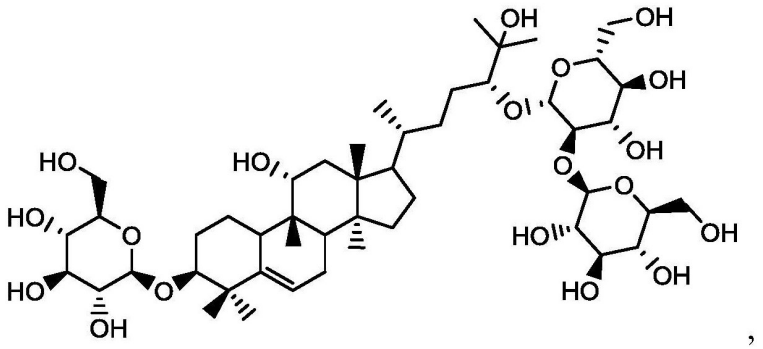
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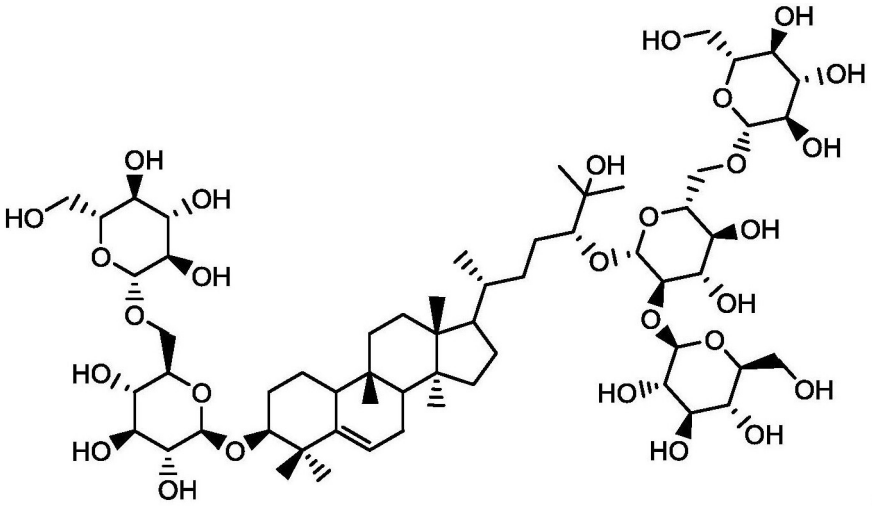
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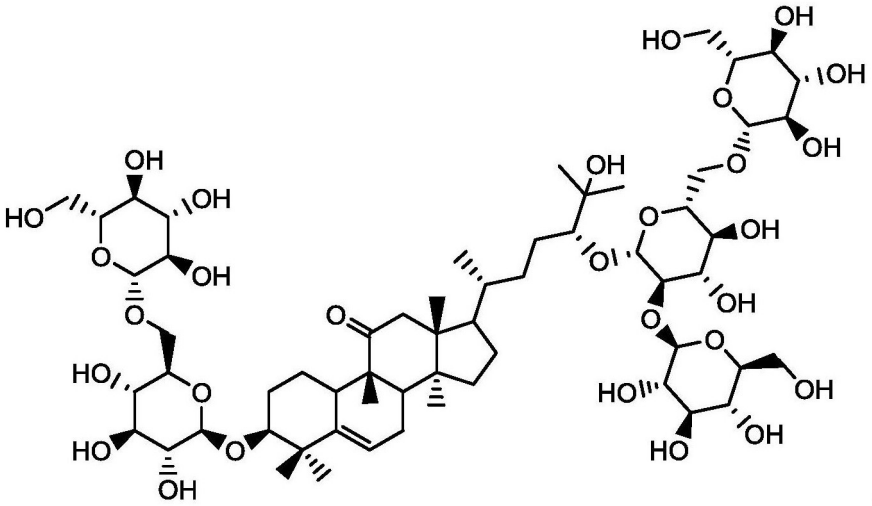
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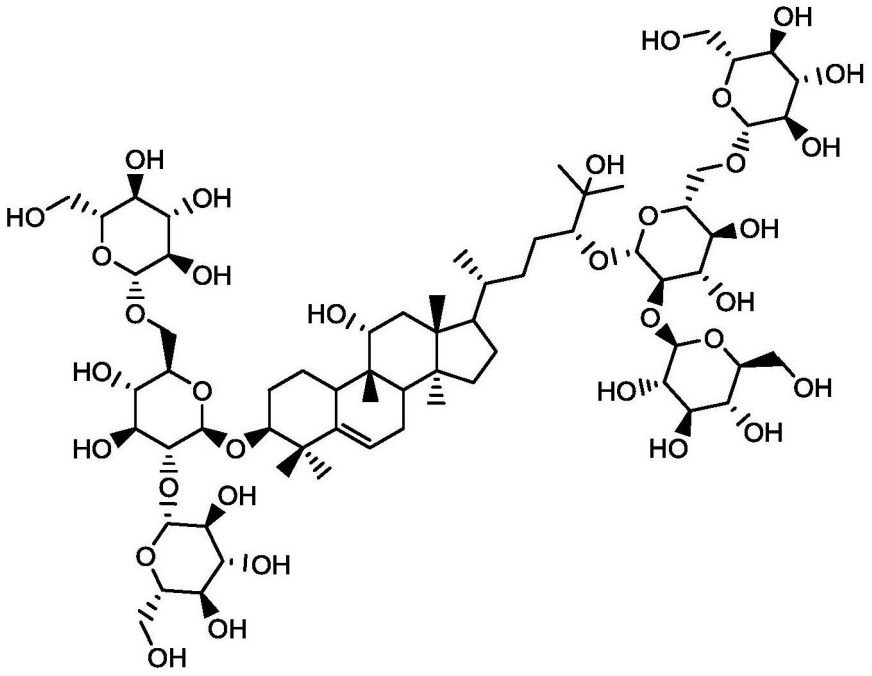
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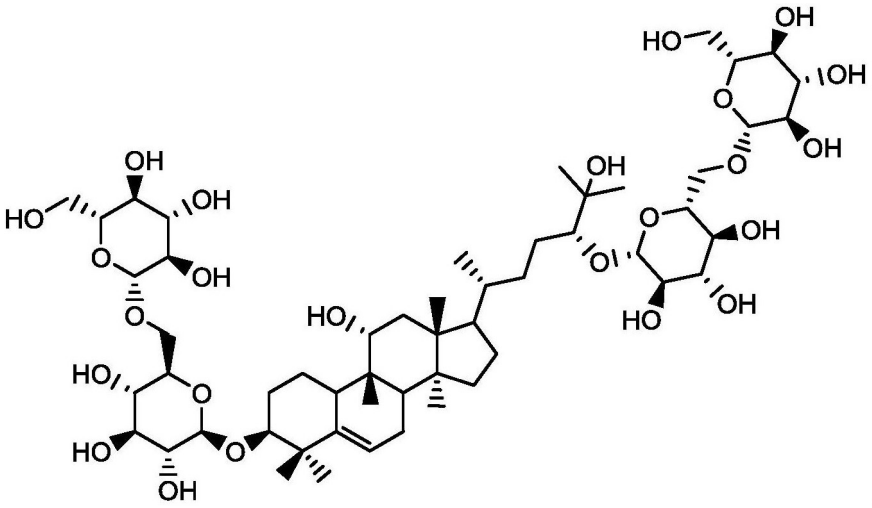
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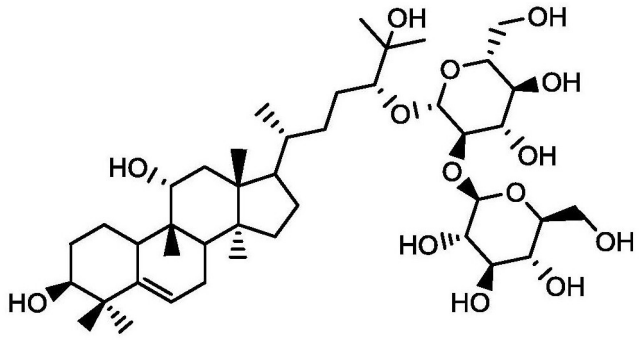
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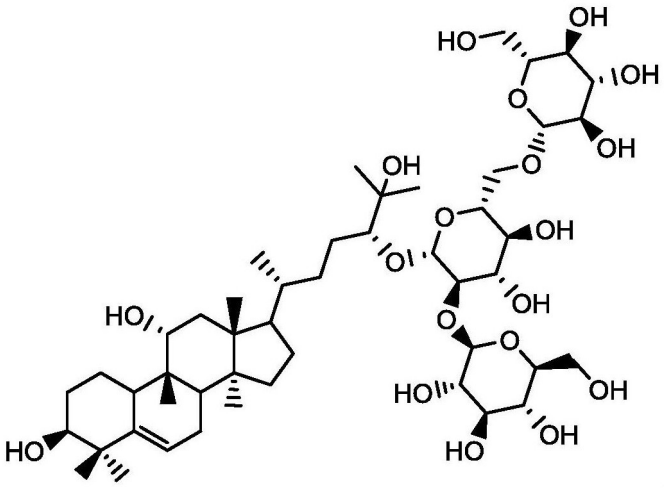
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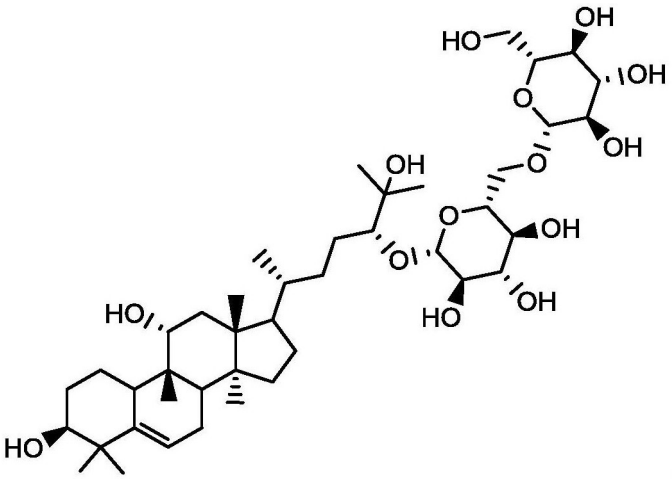
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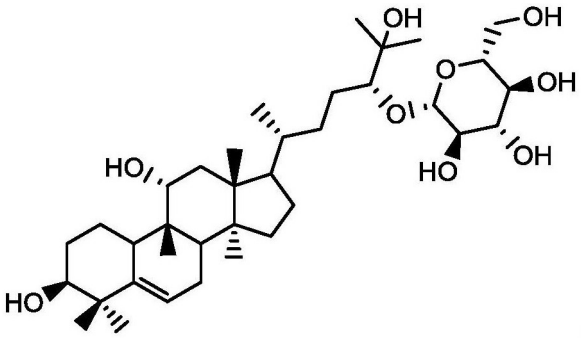
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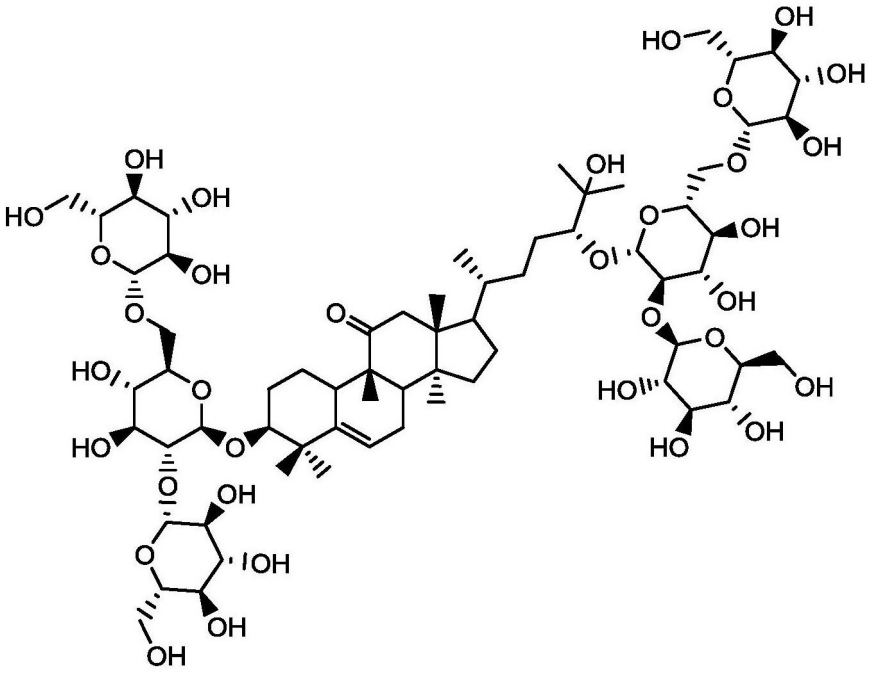
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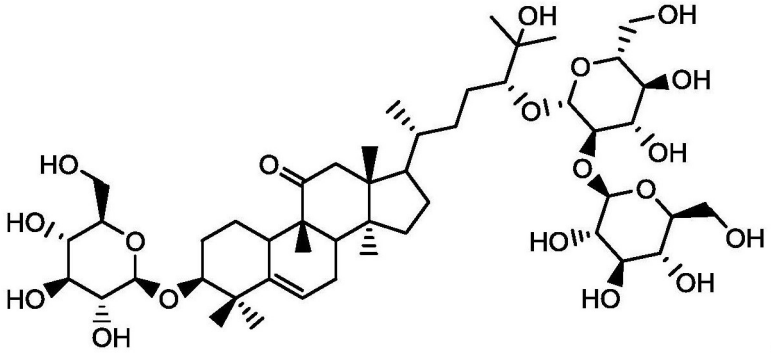
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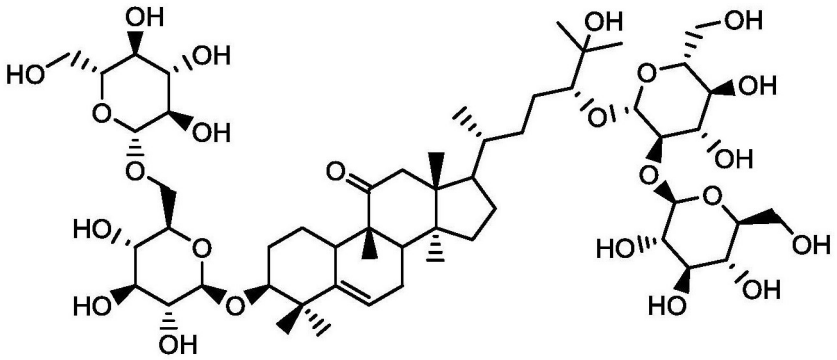
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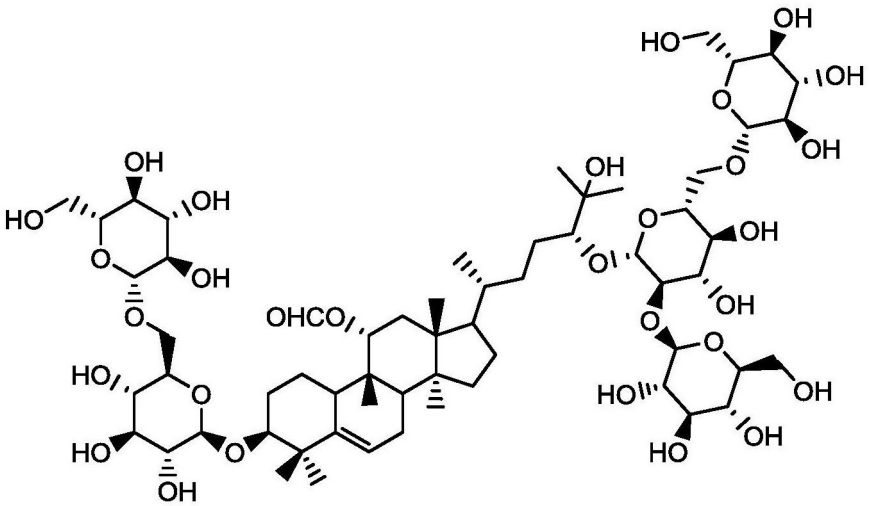
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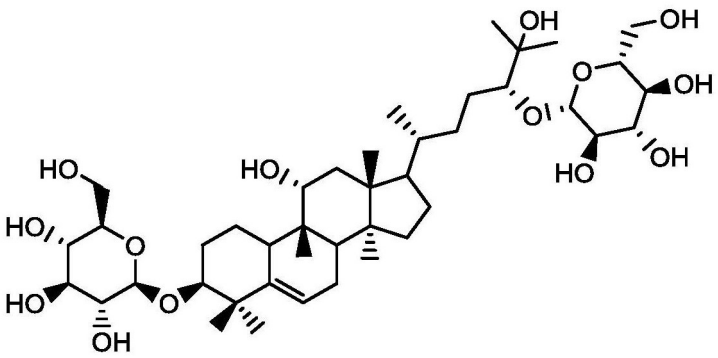
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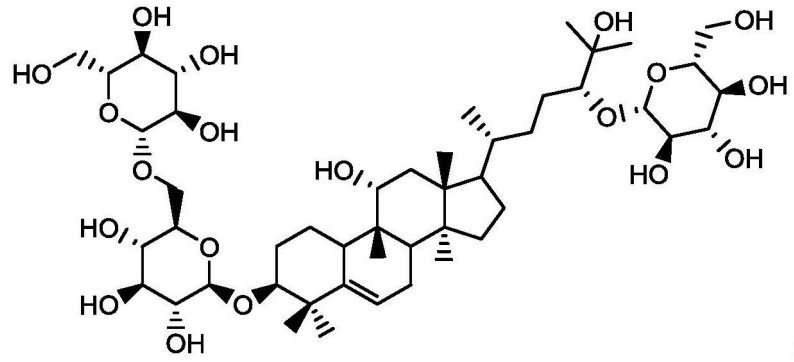
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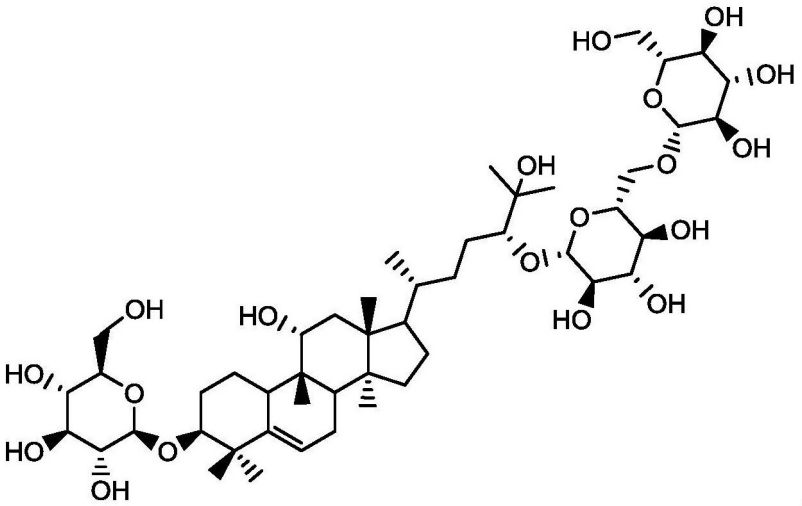
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131.增强食品或饮料产品的甜味的方法，包括将权利要求3至94中任一项所述的组合物添加至所述食品或饮料产品，由此增强所述食品或饮料产品的甜味。

132.制备食品或饮料产品的方法，包括将权利要求3至94中任一项所述的组合物与一种或多种可摄取接受的成分结合。

133.制备食品或饮料产品的方法，包括：

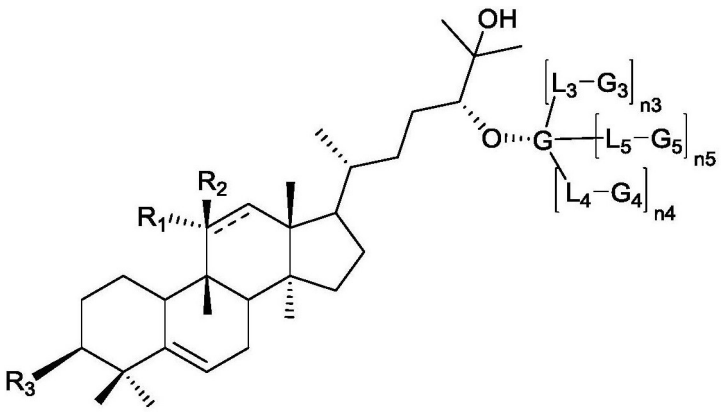
将第一组多种可摄取接受的成分结合以形成中间体混合物；以及

将一定剂量的权利要求3至94中任一项所述的组合物分配至所述中间体混合物中。

134.如权利要求133所述的方法，还包括，在分配所述剂量的所述组合物之后，添加一种或多种另外的可摄取接受的成分。

135.如权利要求133所述的方法，还包括将所述可摄取接受的成分与所述组合物混合。

136.增味浓缩物，包含增味剂以及具有式(I)结构的化合物：

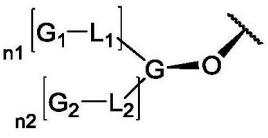


(I)

或其盐，其中：

------表示碳-碳单键或碳-碳双键；

R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团；

R_3选自-OH和 

；

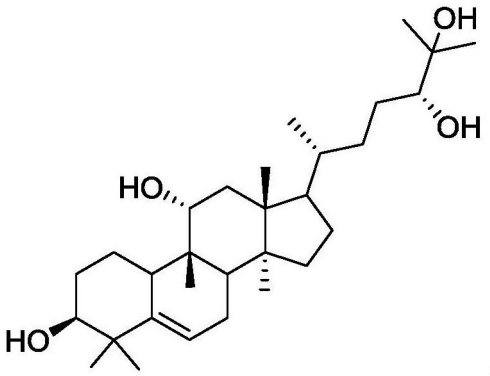
各个n^1、n^2、n^3、n^4和n^5独立地为0至3的整数；

各个G、G_1、G_2、G_3、G_4和G_5独立地为呋喃糖部分或吡喃糖部分；

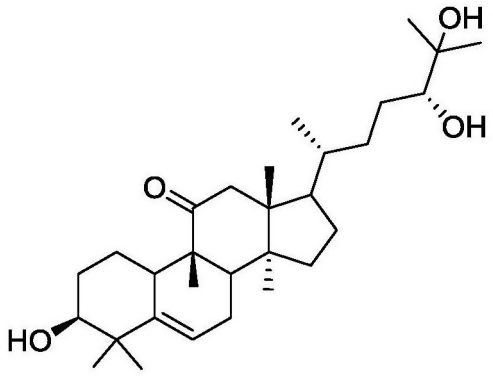
各个L_1、L_2、L_3、L_4和L_5独立地为糖苷键；以及

当------为碳-碳双键时，R_1不存在；

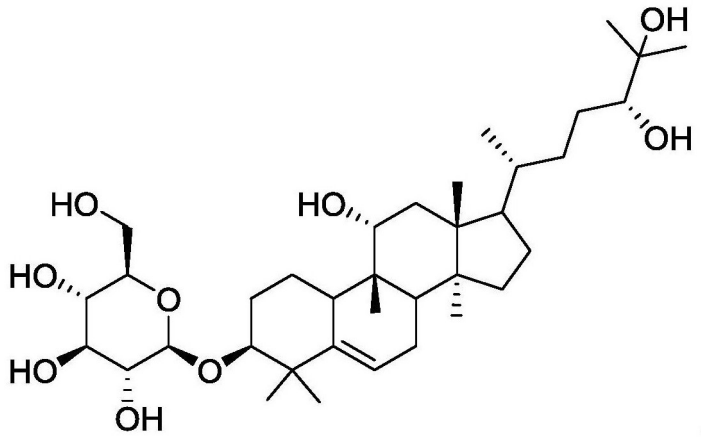
条件为式(I)不选自；


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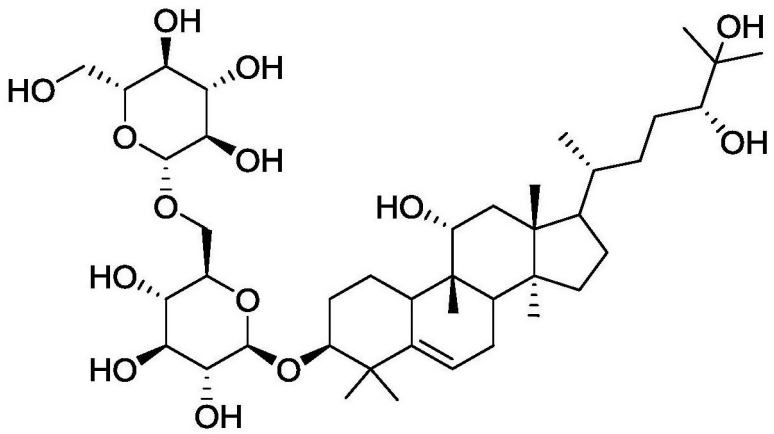
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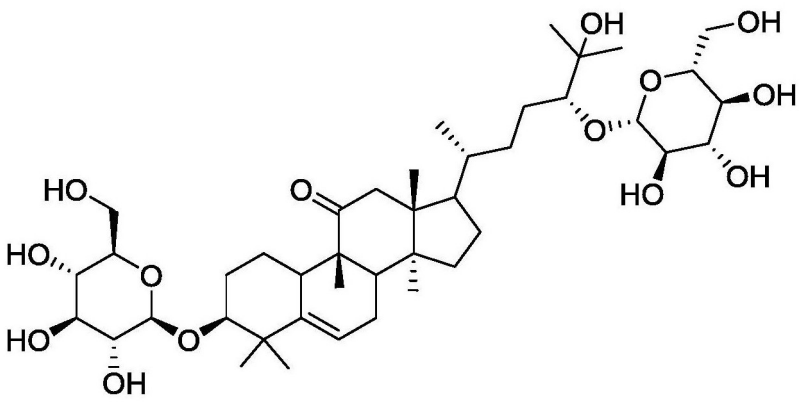
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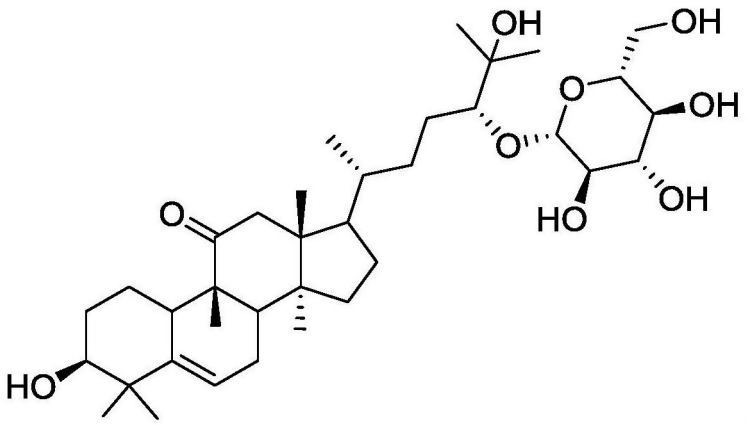
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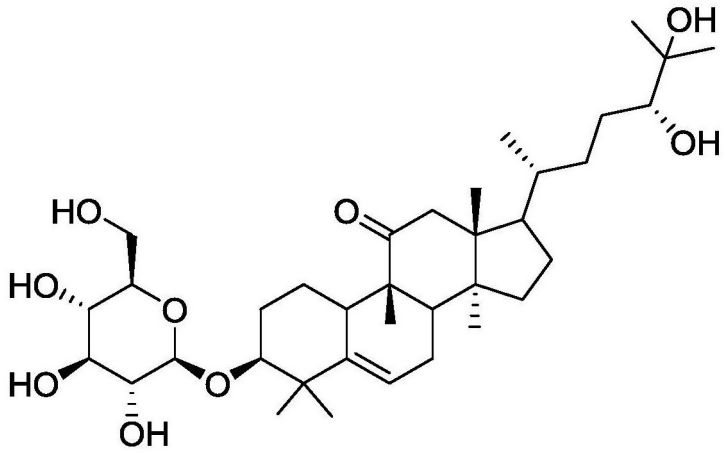
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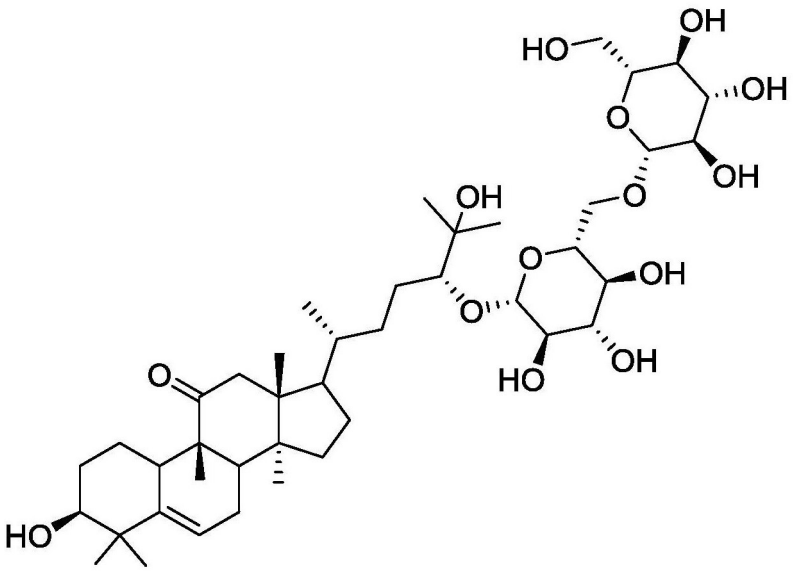
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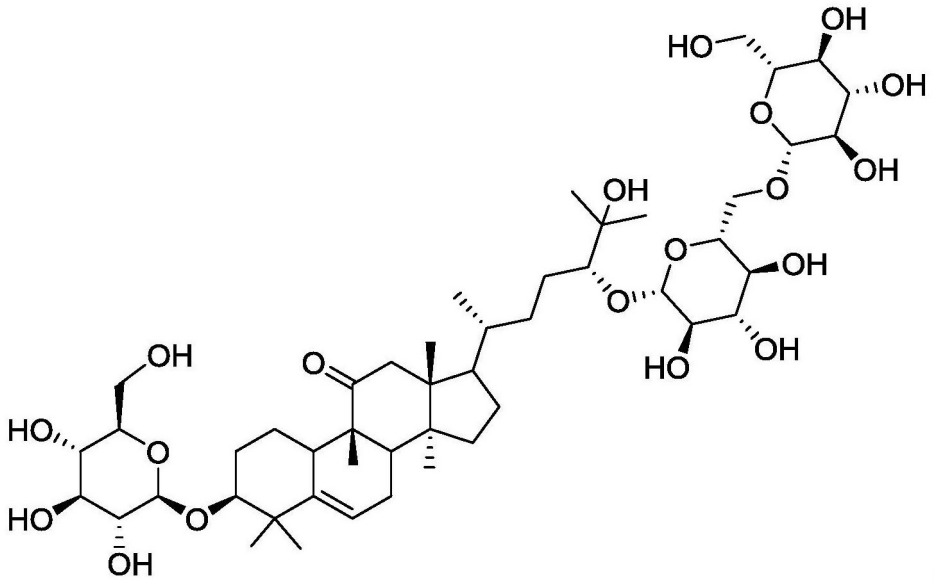
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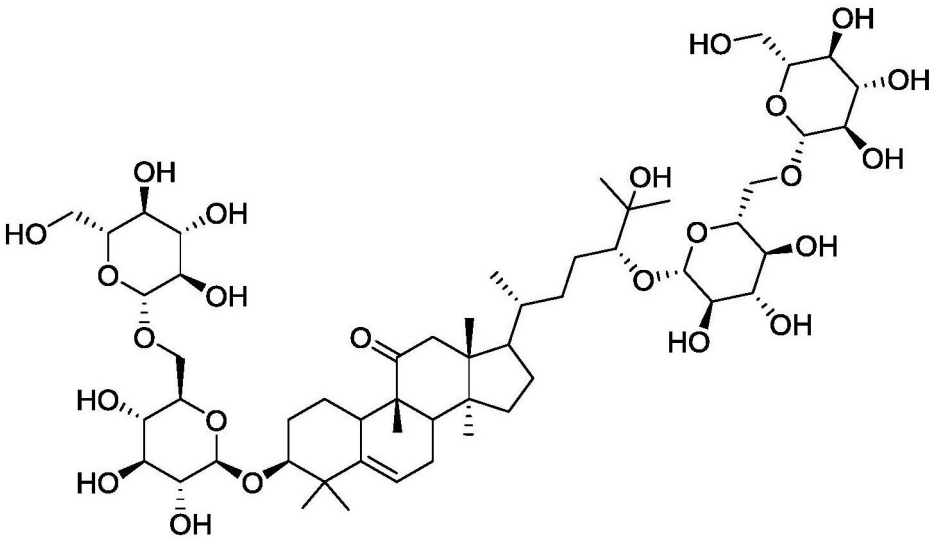
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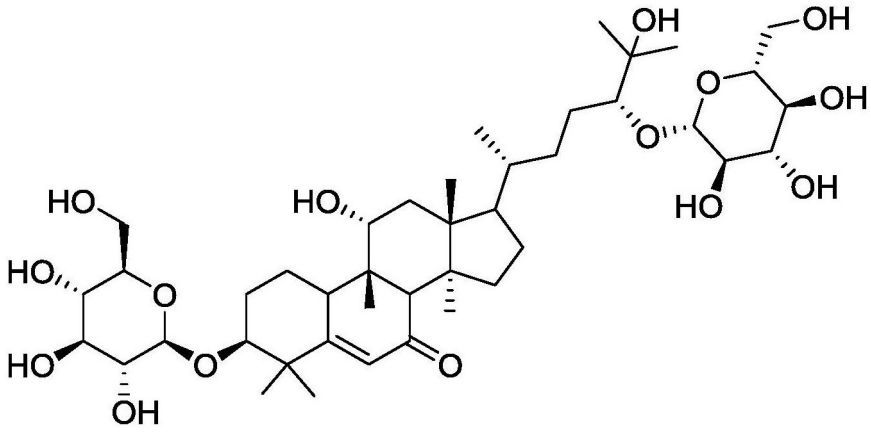
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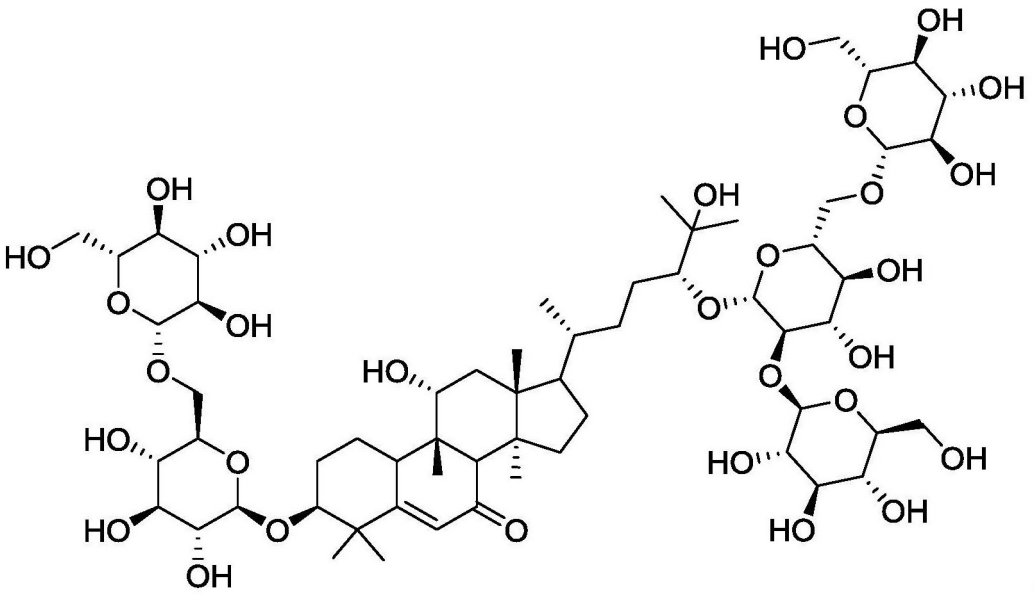
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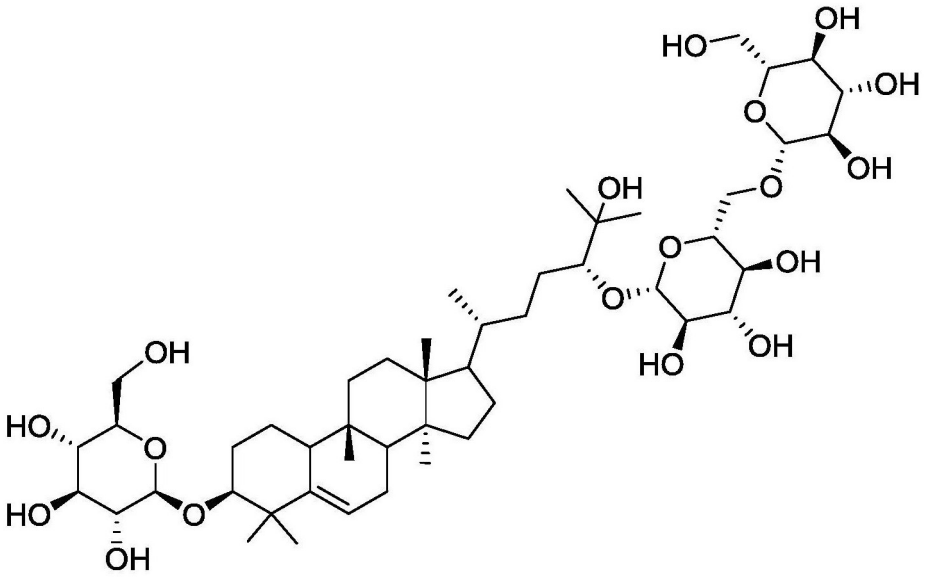
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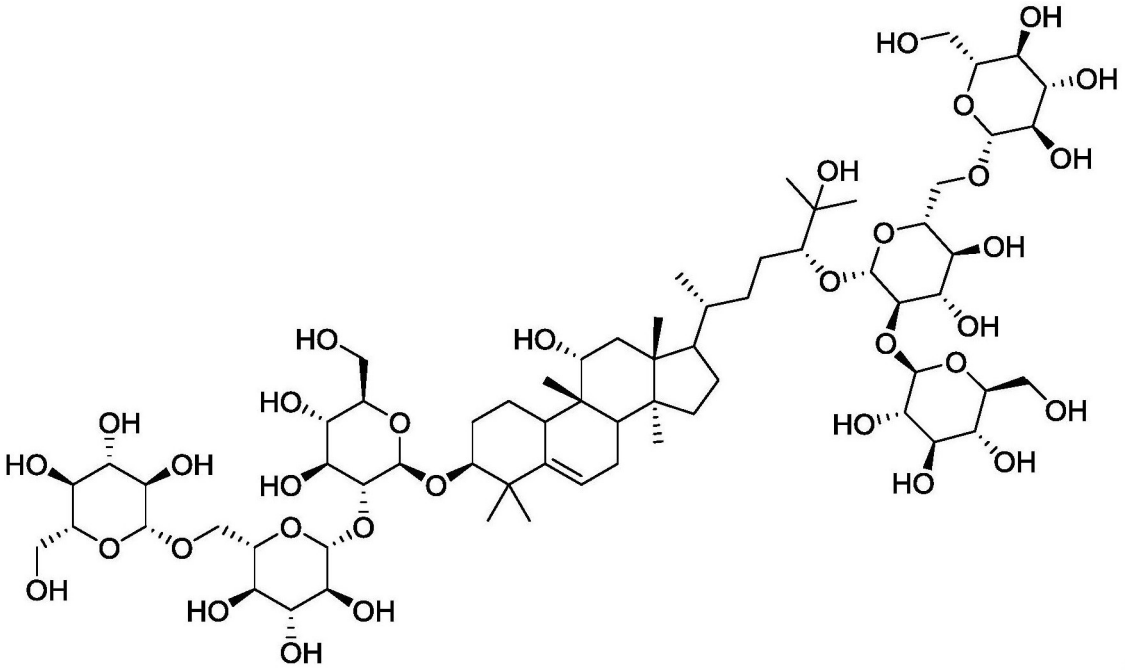
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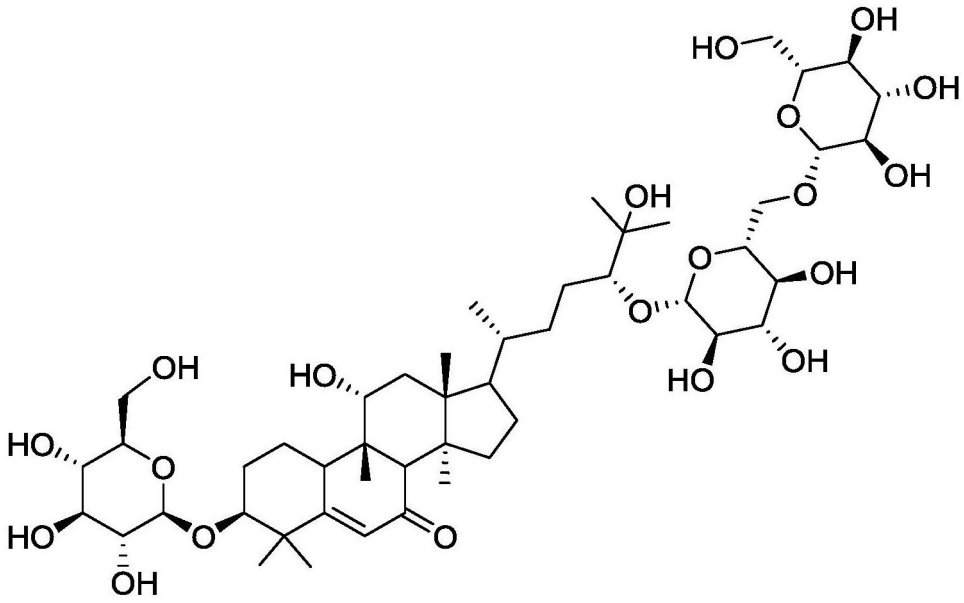
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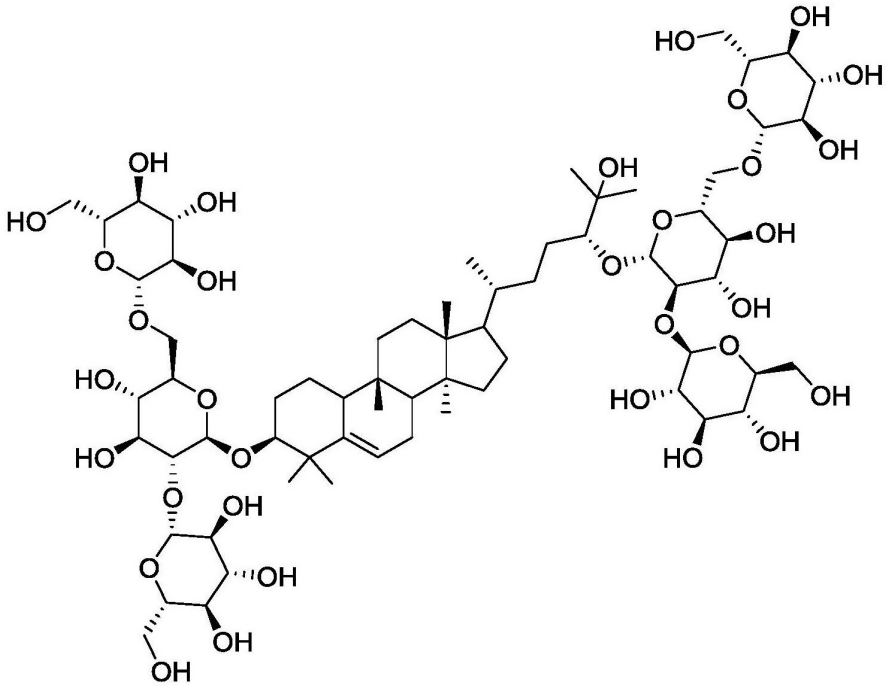
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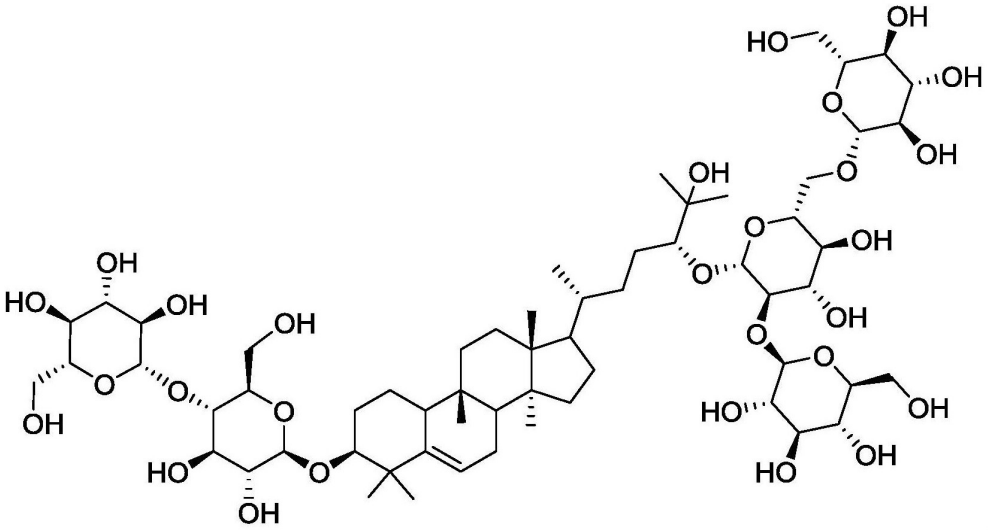
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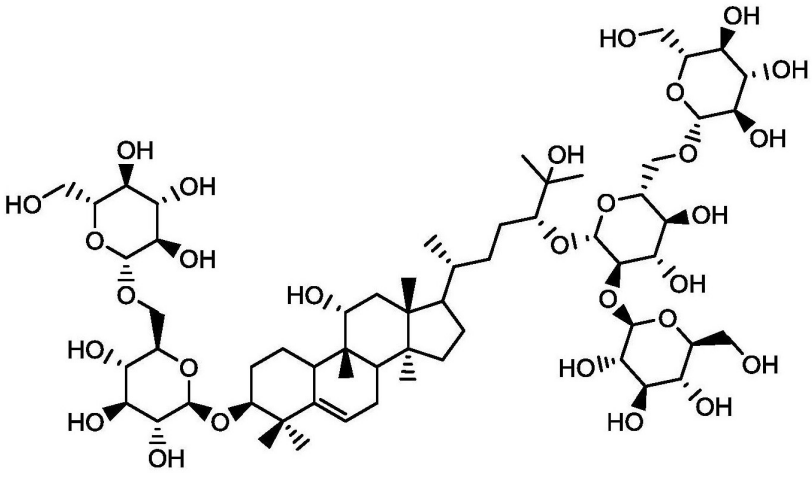
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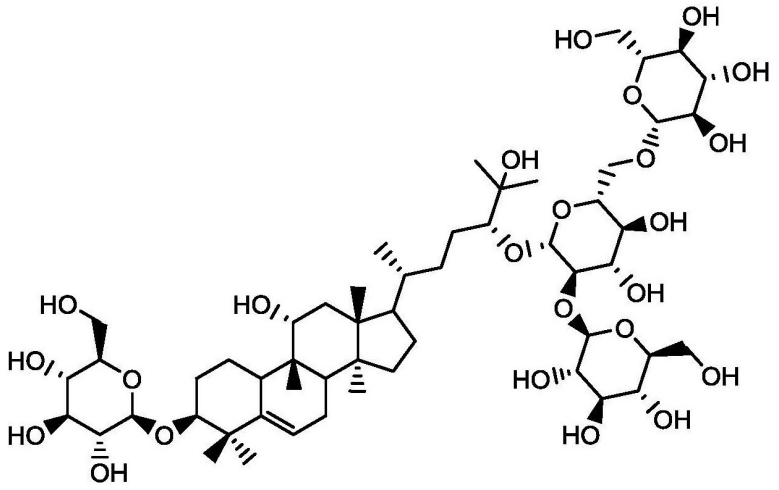
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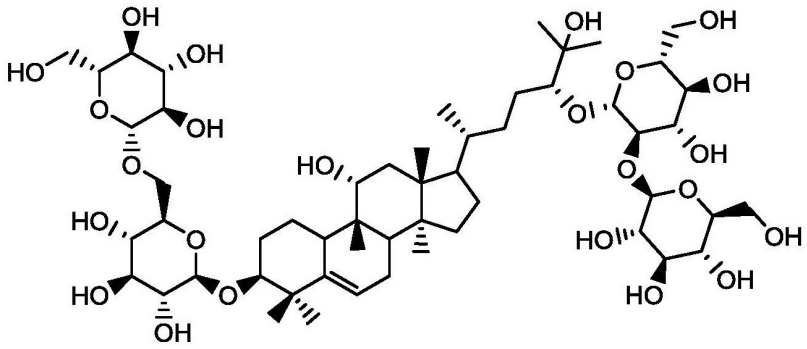
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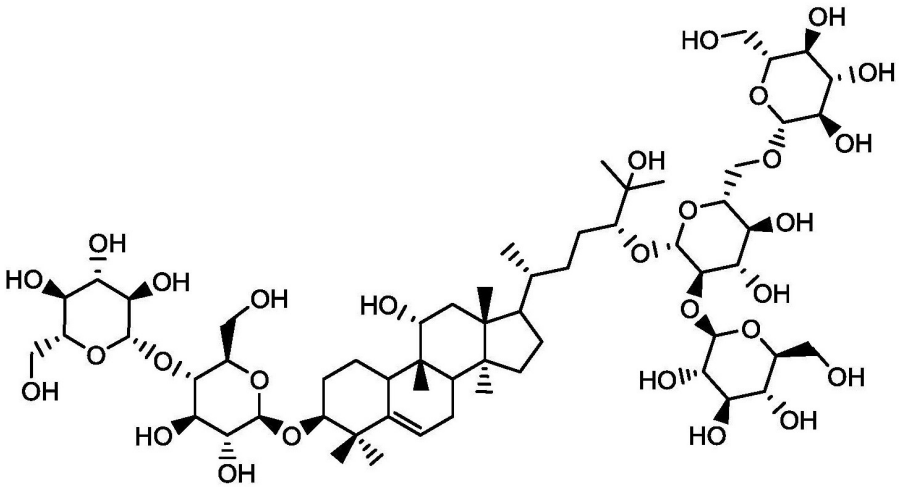
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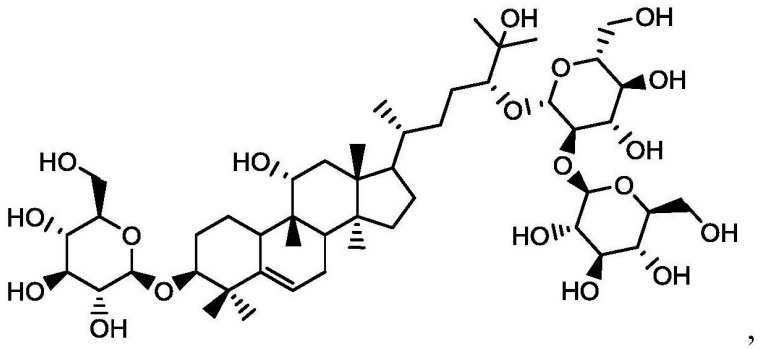
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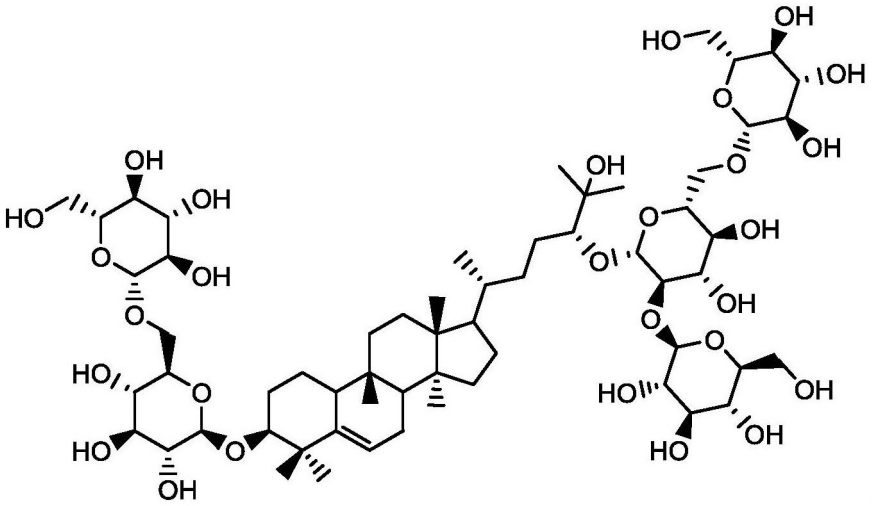
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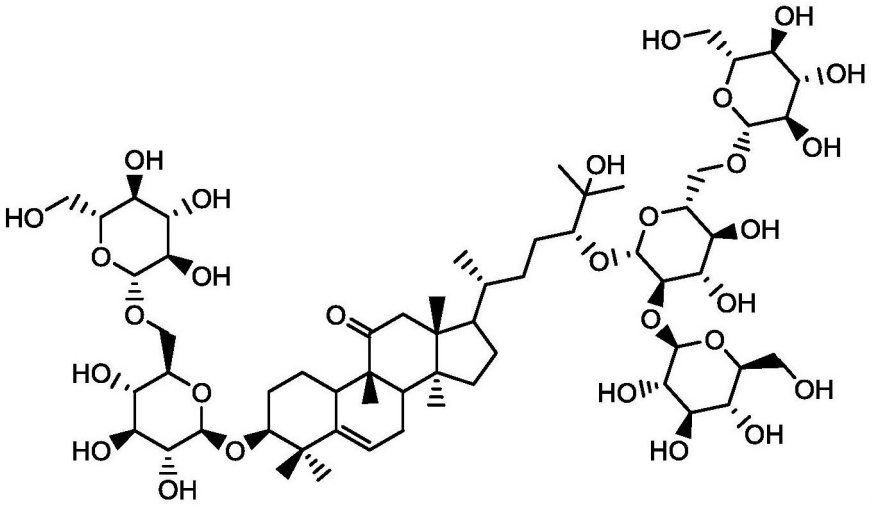
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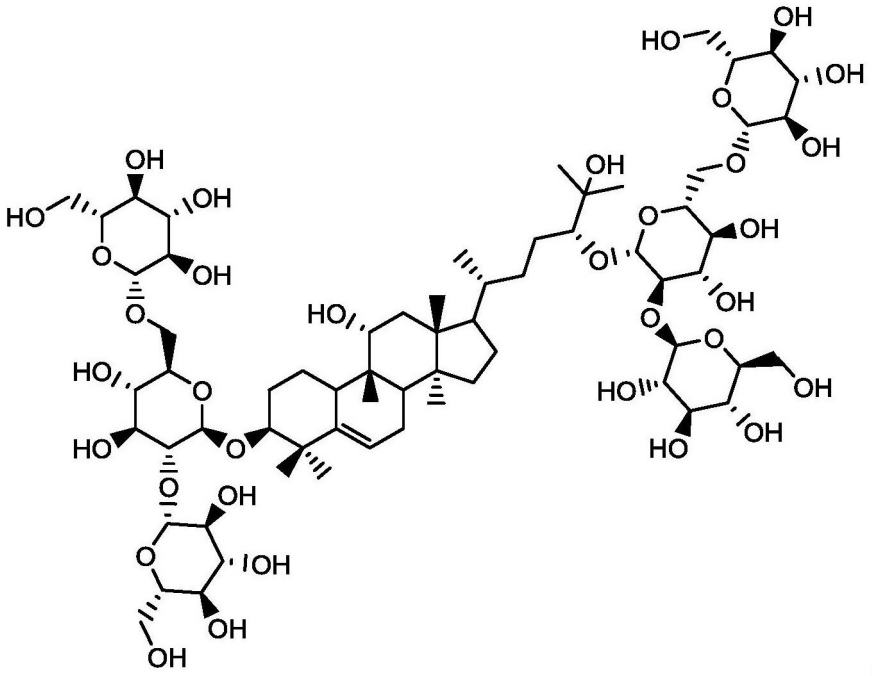
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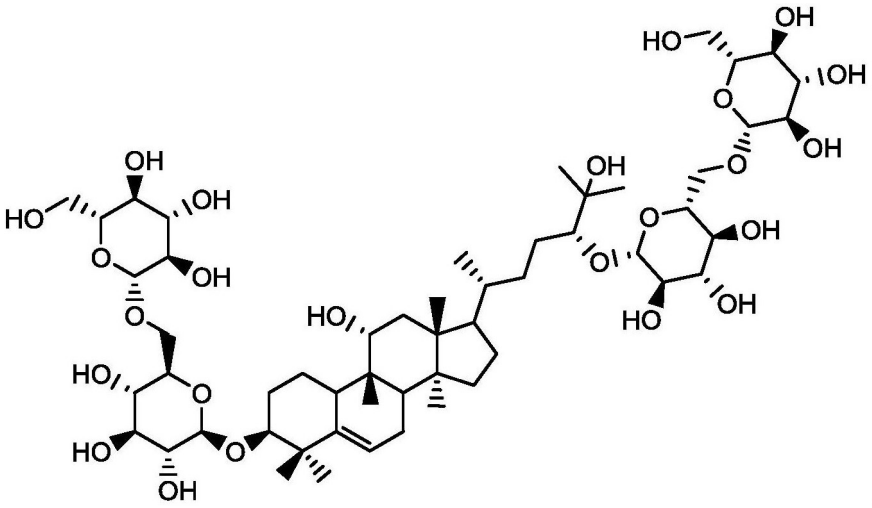
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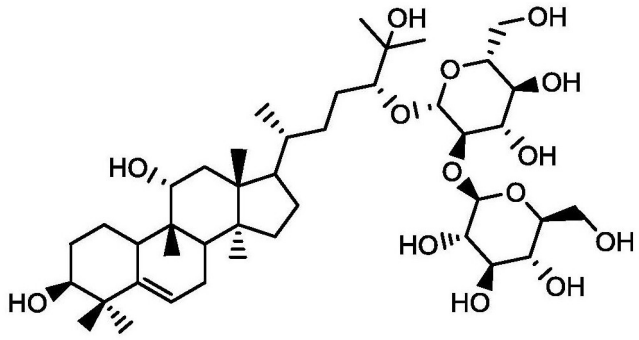
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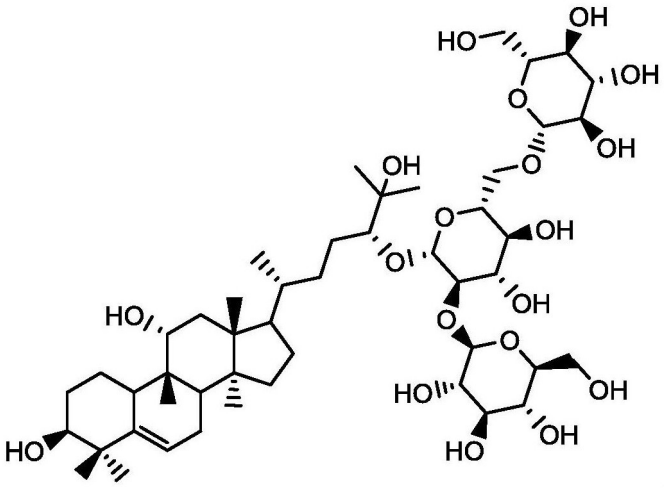
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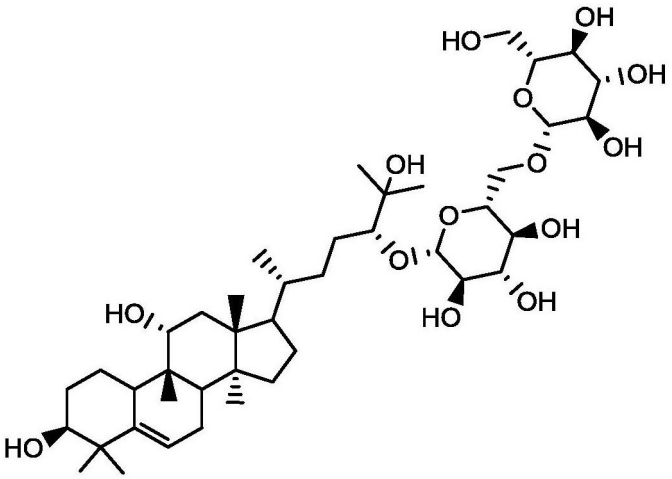
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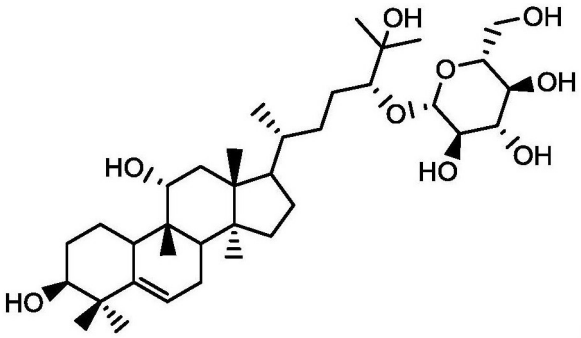
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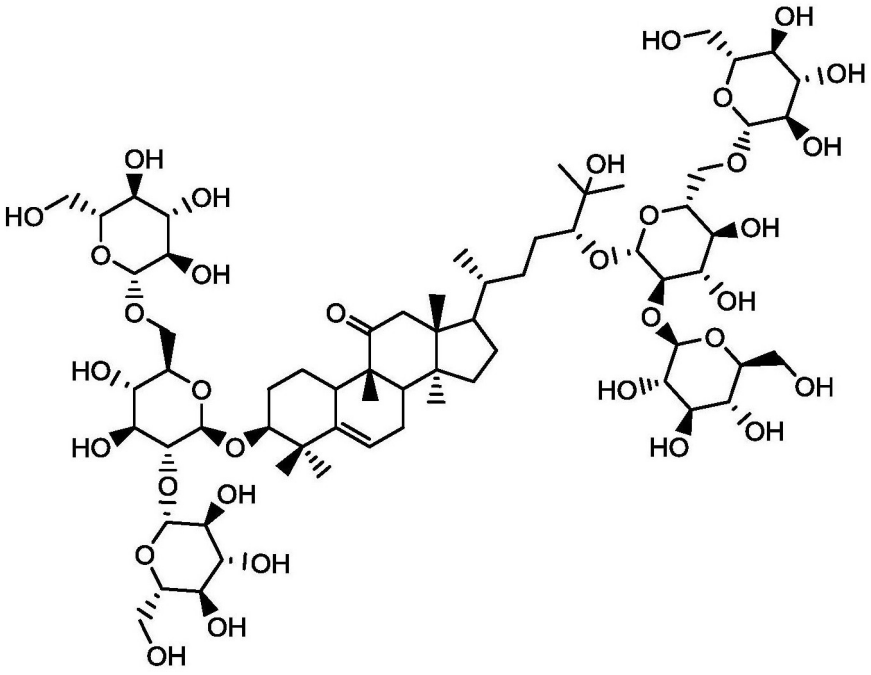
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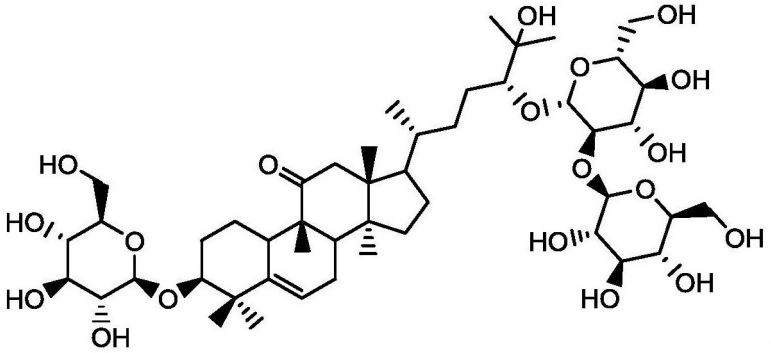
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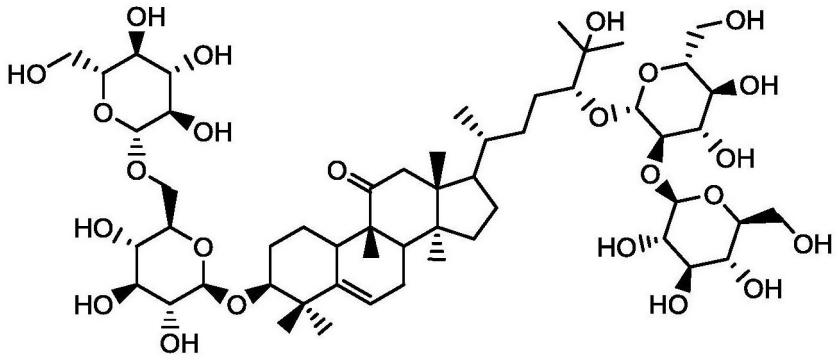
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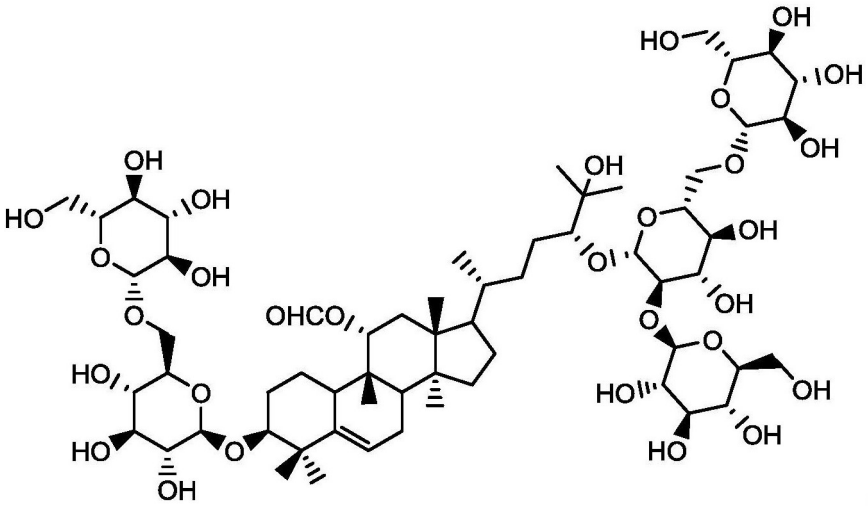
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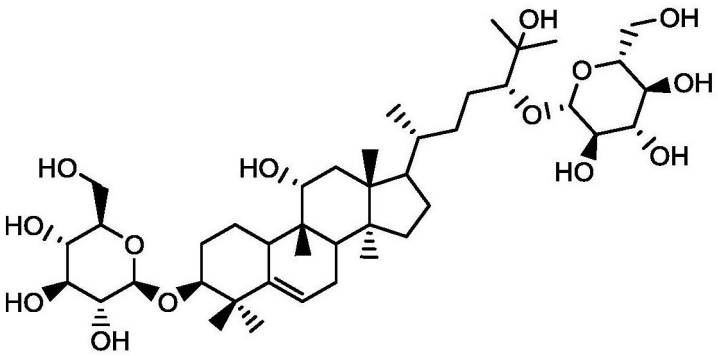
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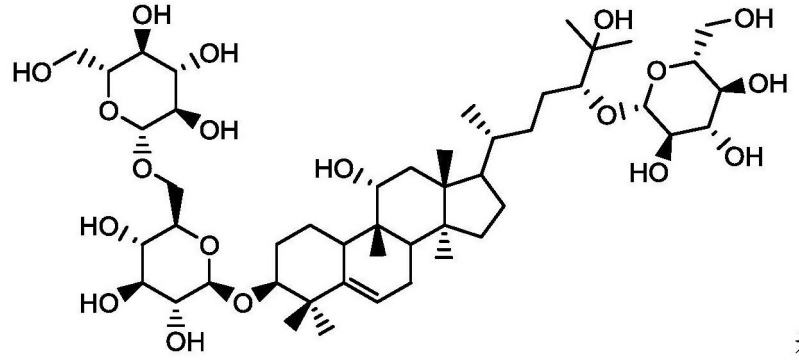
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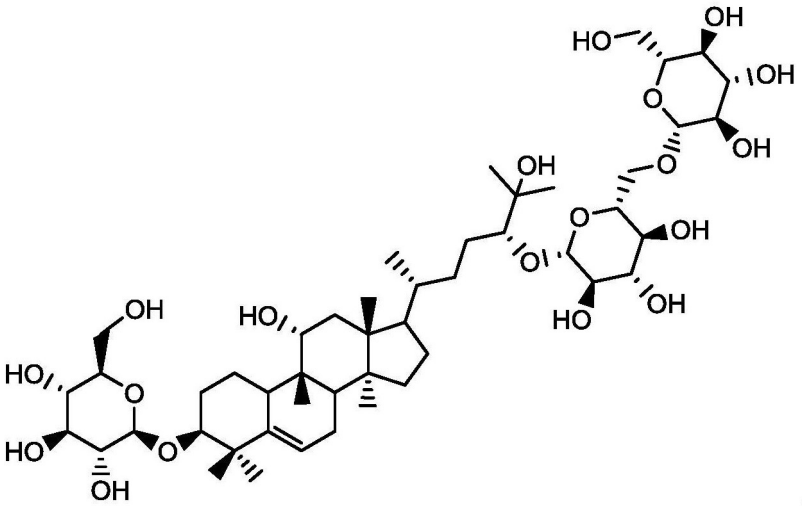
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和



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137.如权利要求136所述的浓缩物，其中所述增味剂为人造增味成分。

138.如权利要求136所述的浓缩物，其中所述增味剂为天然增味成分。

139.如权利要求136至138中任一项所述的浓缩物，其中所述化合物的浓度大于0.1％。

140.如权利要求136至138中任一项所述的浓缩物，其中所述化合物的浓度大于0.5％。

141.如权利要求136至138中任一项所述的浓缩物，其中所述化合物的浓度大于1％。

142.如权利要求136至142中任一项所述的浓缩物，其中所述浓缩物为液体。

143.如权利要求142所述的浓缩物，其中所述浓缩物为溶液。

144.如权利要求136至138中任一项所述的浓缩物，其中所述浓缩物为固体。

145.如权利要求136至143中任一项所述的浓缩物，其中所述化合物以即用的食品或饮料产品中所述化合物浓度的至少2倍的浓度存在。

146.制备食品或饮料产品的方法，包括将权利要求136至145中任一项所述的浓缩物与稀释剂结合。

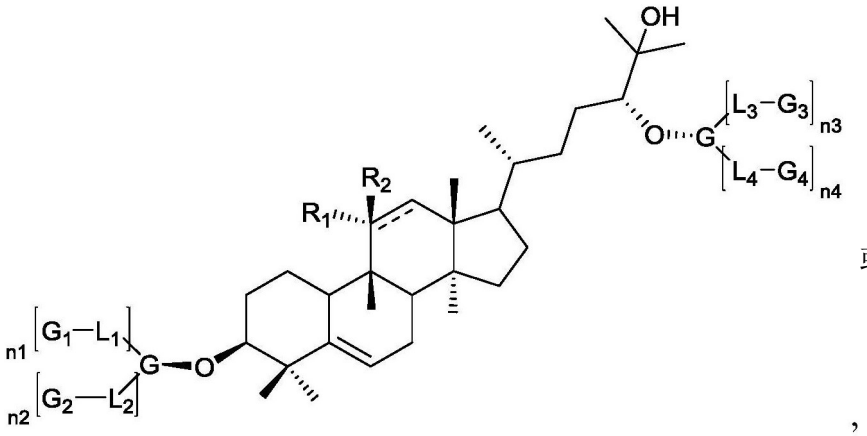
147.如权利要求146所述的方法，其中所述稀释剂为水。

148.如权利要求146所述的方法，其中所述稀释剂为碳酸水。

149.如权利要求146所述的方法，其中所述稀释剂为注入氮的水。

150.如权利要求146至149中任一项所述的方法，其中所述食品或饮料产品选自可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料以及冰沙。

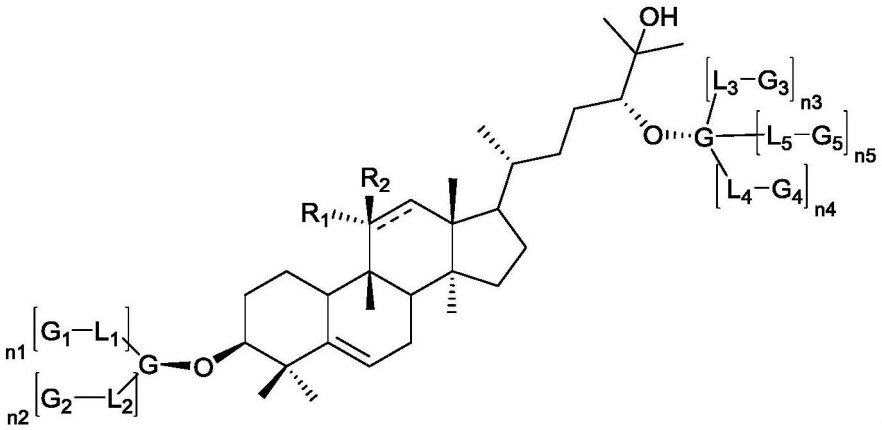
151.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有式(Ia)的结构：



或其盐。

(Ia)

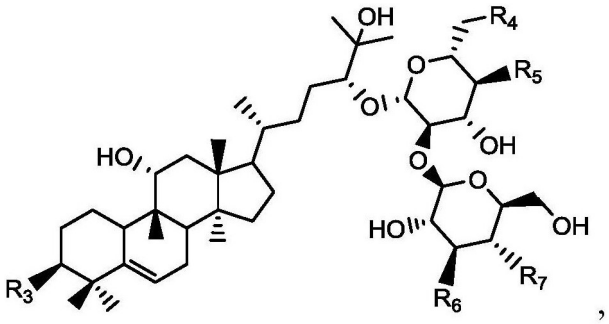
152.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有式(Ib)的结构：



或其盐。

(Ib)

153.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有式(Ic)的结构：



(Ic)

或其盐，其中：

R_4选自-OH和-$(L_3-G_3)_{n3}$；

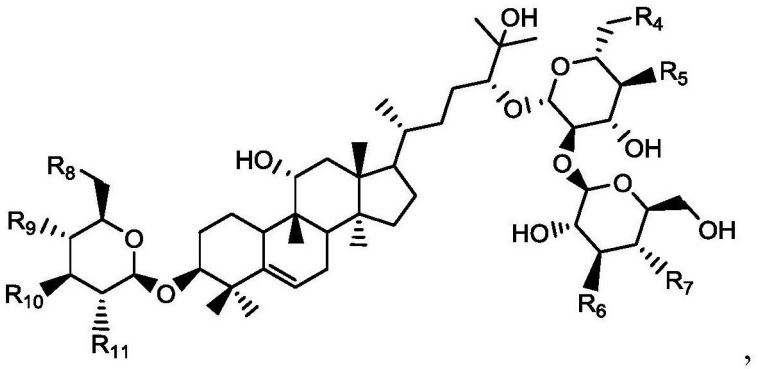
R_5选自-OH和-$(L_5-G_5)_{n5}$；

R_6和R_7独立地选自-OH和-L_6-G_6，条件是R_6和R_7不均为-L_6-G_6；

G_6为呋喃糖部分或吡喃糖部分；以及

L_6为糖苷键。

154.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有式(Id)的结构：



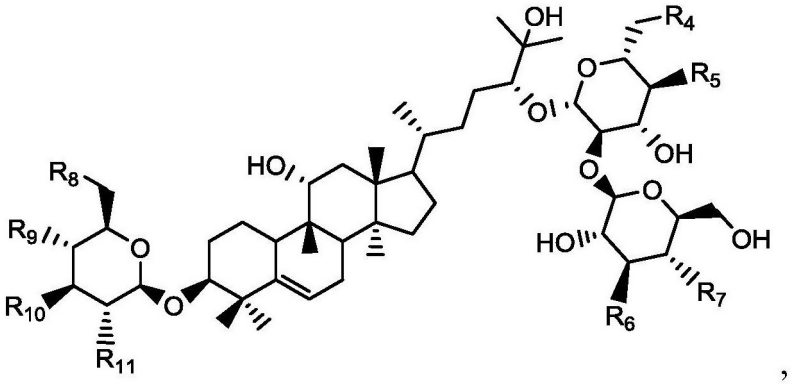
(Id)

或其盐，其中：

R_8和R_9独立地选自-OH和-L_1-G_1，条件是R_8和R_9不均为-L_1-G_1；以及

R_{10}和R_{11}独立地选自-OH和-L_2-G_2，条件是R_{10}和R_{11}不均为-L_2-G_2。

155.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有式(Id)的结构：



(Id)

或其盐，其中：

R_8和R_{10}独立地选自-OH和-L_1-G_1，条件是R_8和R_9不均为-L_1-G_1；以及

R_9和R_{11}独立地选自-OH和-L_2-G_2，条件是R_{10}和R_{11}不均为-L_2-G_2。

156.如权利要求154或155所述的化合物、组合物、产品、方法或浓缩物，其中各个R_8、R_9、R_{10}和R_{11}为-OH。

157.如权利要求154或155所述的化合物、组合物、产品、方法或浓缩物，其中R_8为-L_1-G_1，并且各个R_9、R_{10}和R_{11}为-OH。

158.如权利要求154所述的化合物、组合物、产品、方法或浓缩物，其中R_9为L_1-G_1，并且各个R_8、R_{10}和R_{11}为-OH。

159.如权利要求153至158中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_4为-OH。

160.如权利要求153至158中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_4为-L_3-G_3。

161.如权利要求153至160中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_5为-OH。

162.如权利要求153至160中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_5为-L_5-G_5。

163.如权利要求153至162中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_6和R_7为-OH。

164.如权利要求153至162中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_6为-L_6-G_6，并且R_7为-OH。

165.如权利要求153至162中任一项所述的化合物、组合物、产品、方法或浓缩物，其中R_6为-OH，并且R_7为-L_6-G_6。

166.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中各个G、G_1、G_2、G_3、G_4和G_5独立地选自D-吡喃葡萄糖、L-吡喃葡萄糖、D-吡喃果糖、D-吡喃甘露糖、L-吡喃甘露糖、D-吡喃半乳糖、L-吡喃半乳糖、D-吡喃塔格糖、L-吡喃山梨糖、D-吡喃木糖、D-吡喃核糖、D-吡喃阿糖、L-吡喃阿糖、L-吡喃木酮糖、D-吡喃核酮糖、6-脱氧-D-吡喃葡萄糖、6-脱氧-L-吡喃葡萄糖、6-

脱氧-D-吡喃半乳糖、6-脱氧-L-吡喃半乳糖、6-脱氧-L-吡喃甘露糖、2-脱氧-D-吡喃核糖、D-吡喃金镂梅糖、D-呋喃葡萄糖、L-呋喃葡萄糖、D-呋喃果糖、D-呋喃甘露糖、L-呋喃甘露糖、D-呋喃半乳糖、L-呋喃半乳糖、D-呋喃塔格糖、L-呋喃山梨糖、D-呋喃木糖、D-呋喃核糖、D-呋喃阿糖、L-呋喃阿糖、L-呋喃木酮糖、D-呋喃核酮糖、D-苏式呋喃糖、D-赤式呋喃糖、6-脱氧-D-呋喃葡萄糖、6-脱氧-L-呋喃葡萄糖、6-脱氧-D-呋喃半乳糖、6-脱氧-L-呋喃半乳糖、6-脱氧-L-呋喃甘露糖、2-脱氧-D-呋喃核糖、D-呋喃芹菜糖(D-Apiofuranose)和D-呋喃金镂梅糖。

167.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中各个n^1、n^2、n^3、n^4和n^5独立地为0至2的整数。

168.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中n^4为1、2或3。

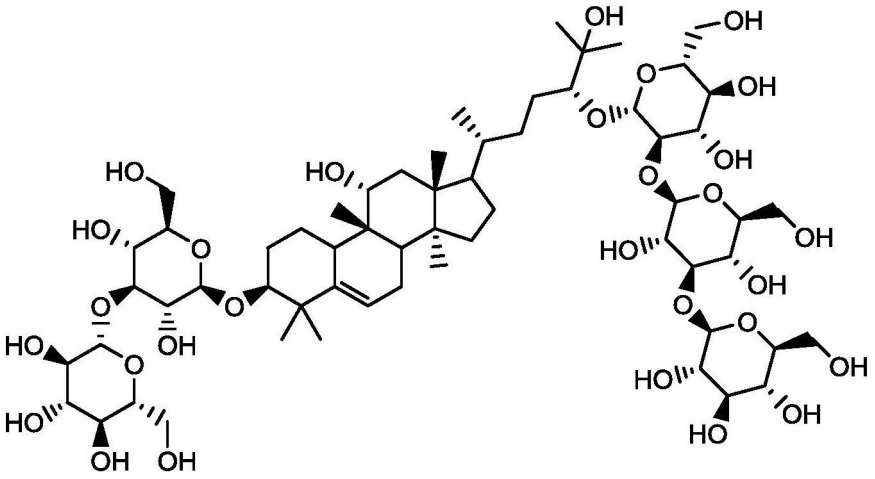
169.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中n^3为0。

170.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中各个L_1、L_2、L_3L_4和L_5为β糖苷键。

171.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中各个L_1、L_2、L_3、L_4和L_5为α糖苷键。

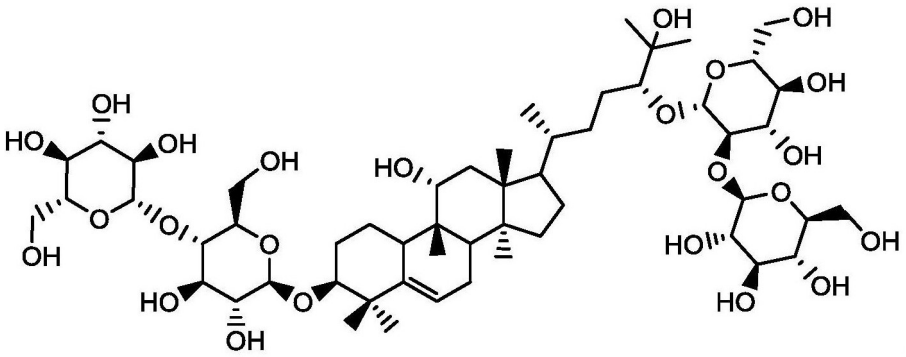
172.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中L_1、L_2、L_3、L_4和L_5中的至少一个为α糖苷键。

173.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有结构：



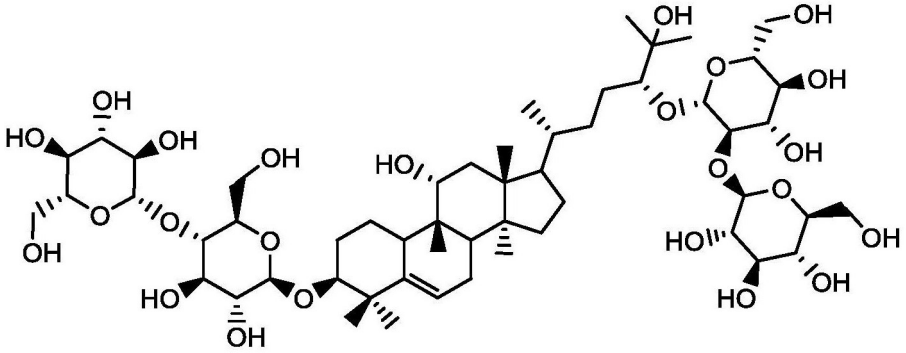
或其盐。

174.如权利要求1所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有结构：

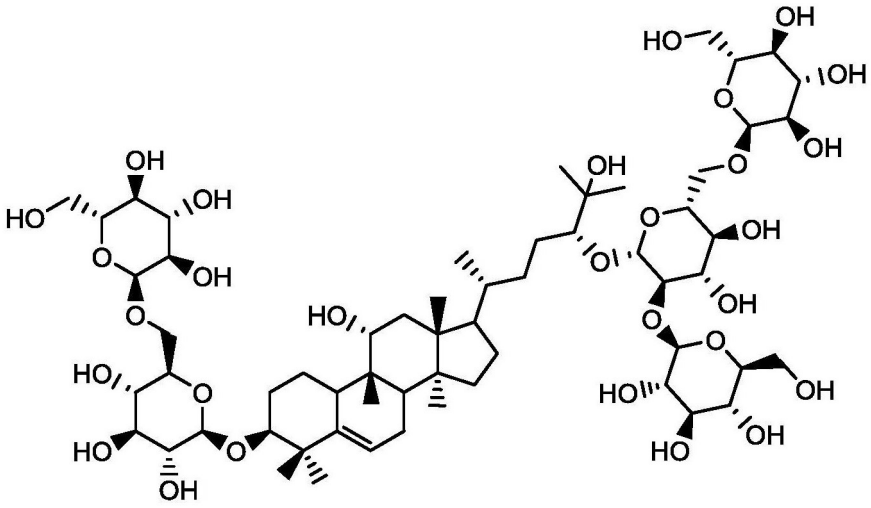


或其盐。

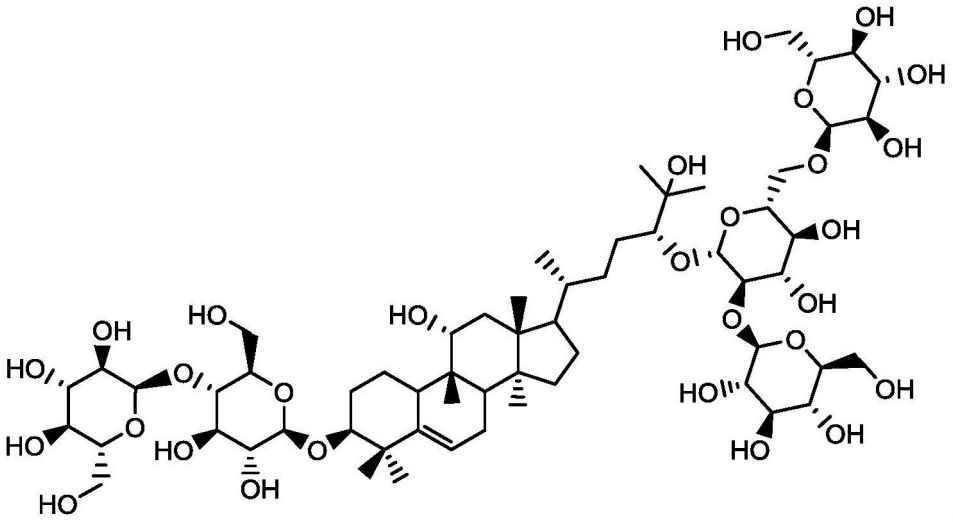
175.如权利要求1或2所述的化合物，权利要求3至94和103至129中任一项所述的组合物，权利要求95至102中任一项所述的产品，权利要求130至135和146至150中任一项所述的方法，或者权利要求136至145中任一项所述的浓缩物，其中所述化合物具有选自以下的结构：



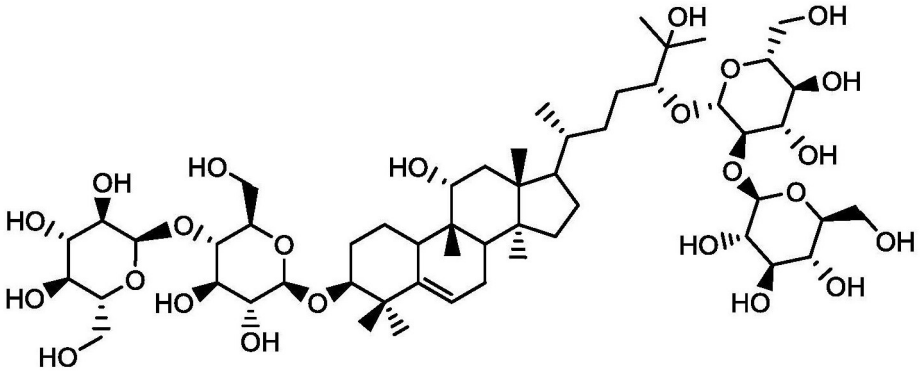
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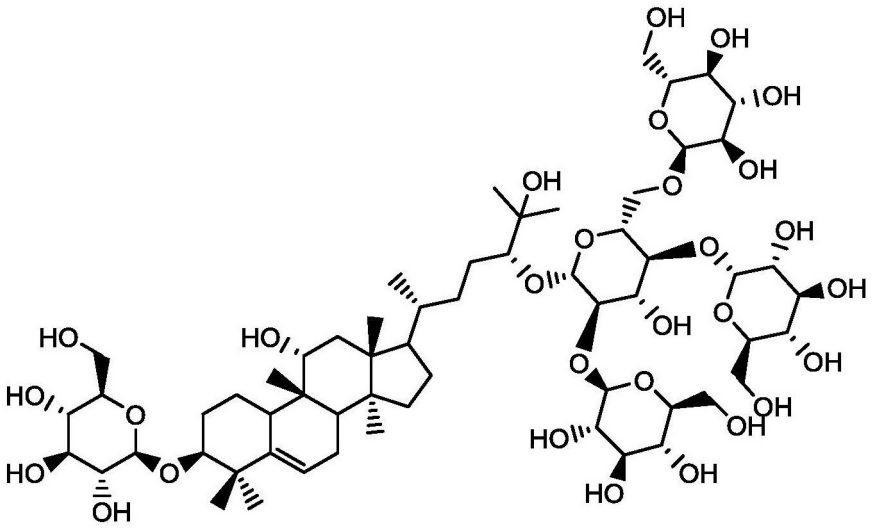
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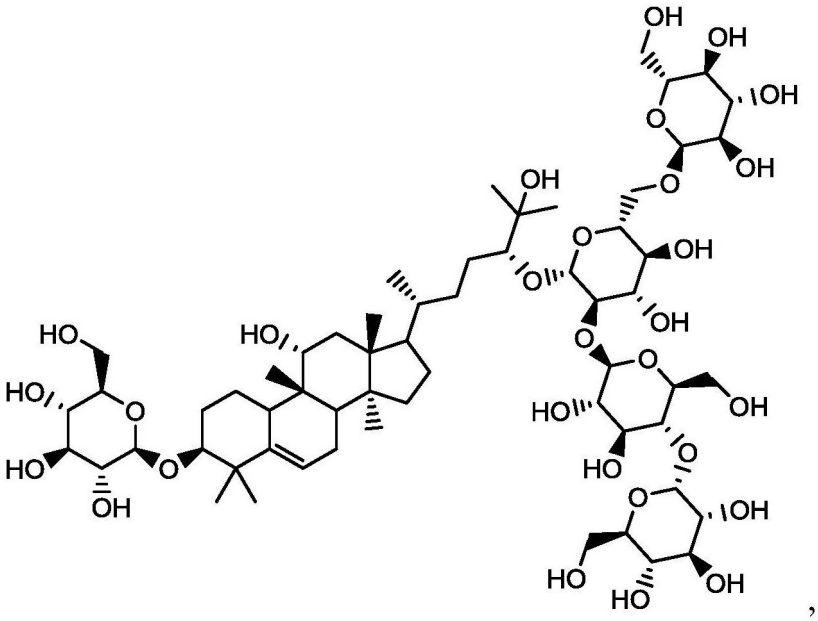
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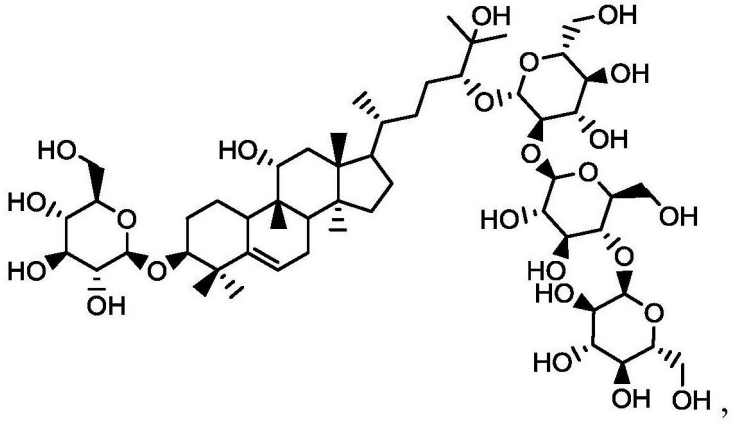
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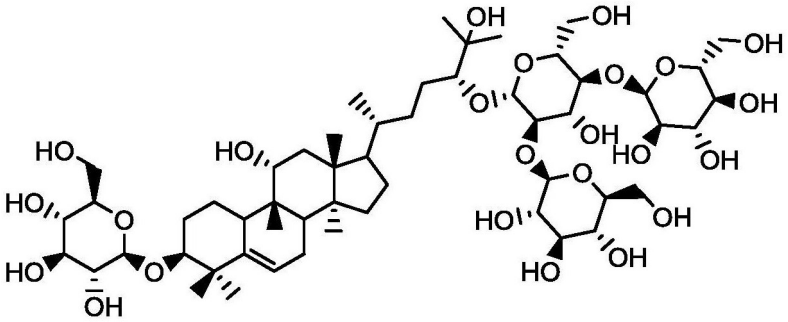
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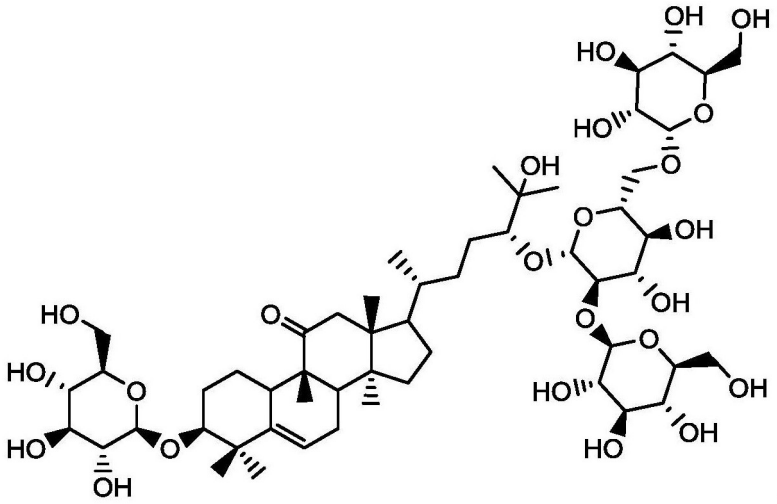
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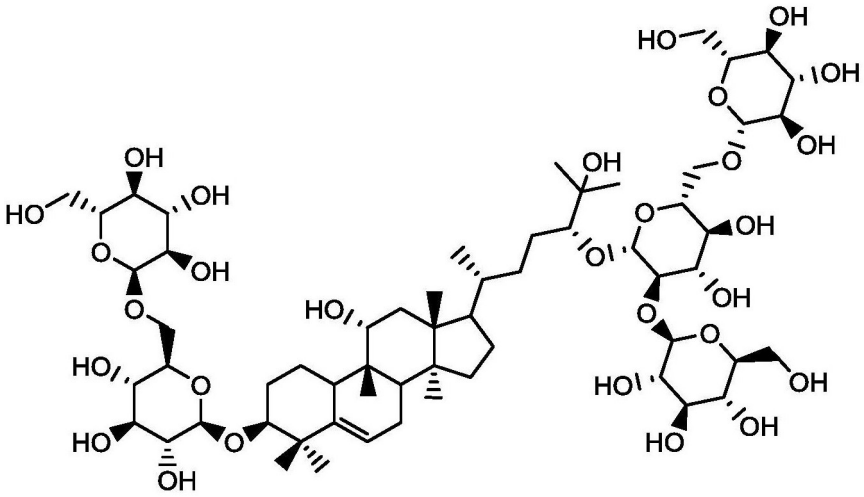
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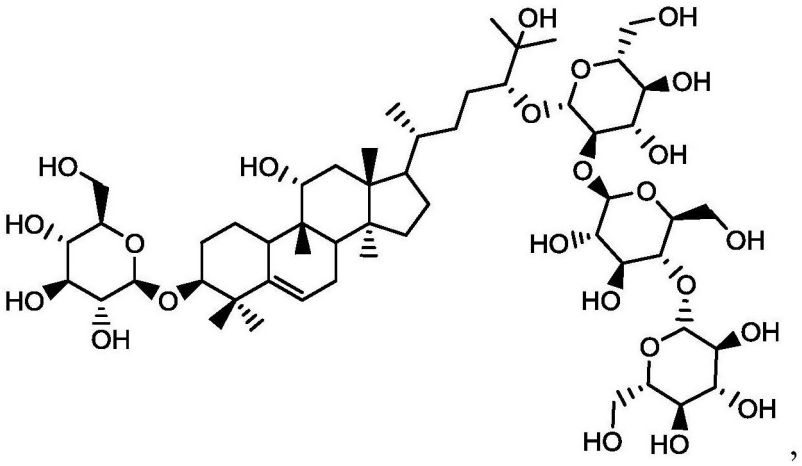
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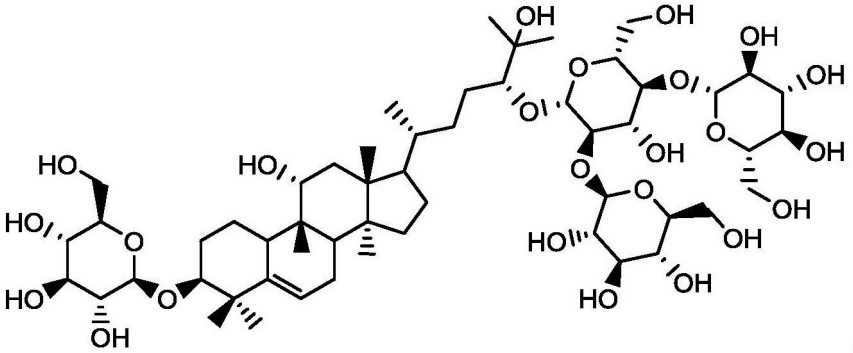
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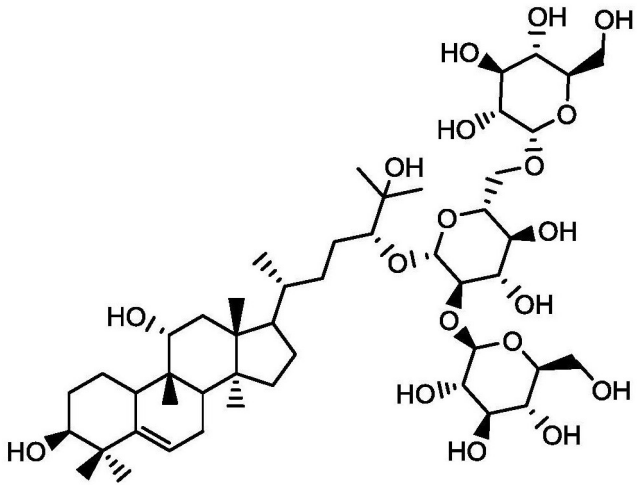
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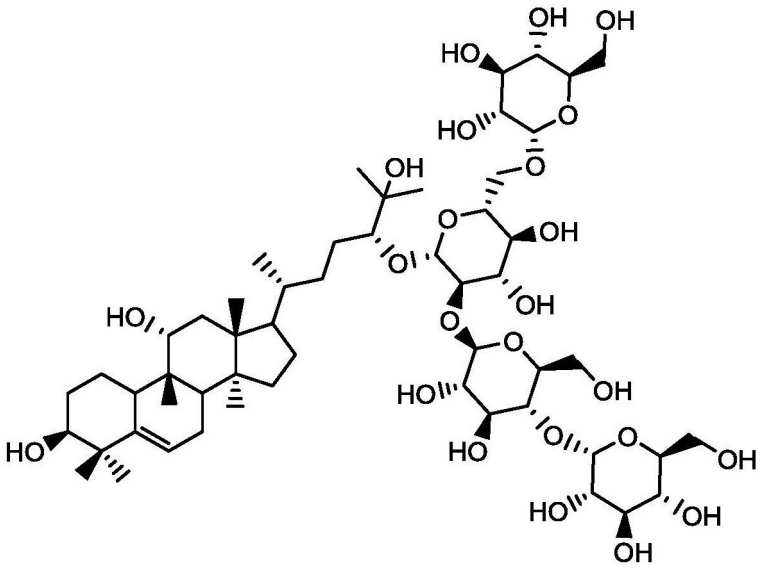
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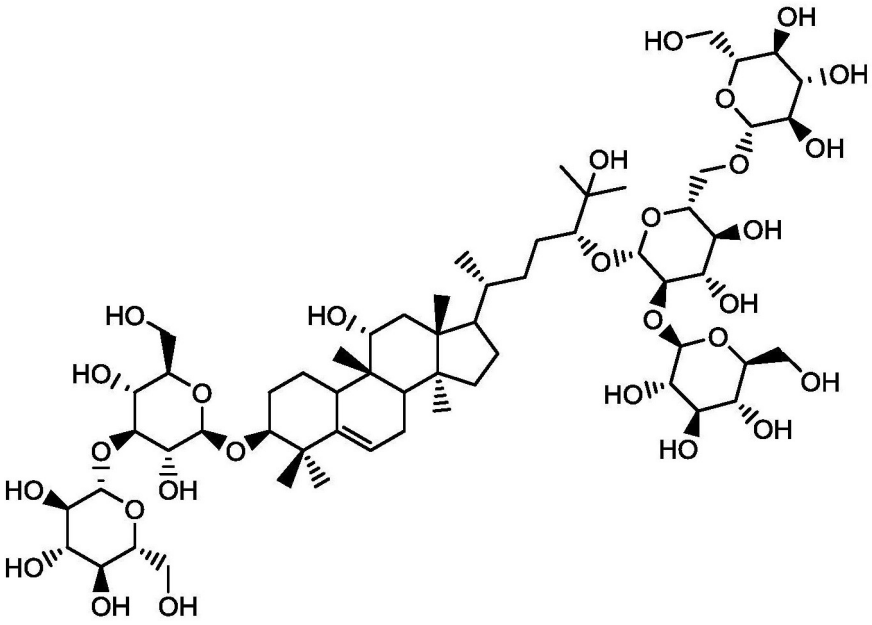
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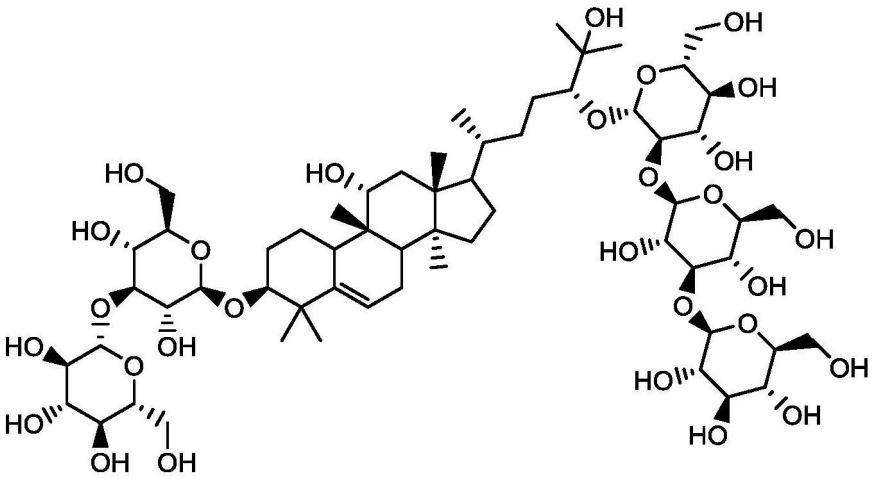
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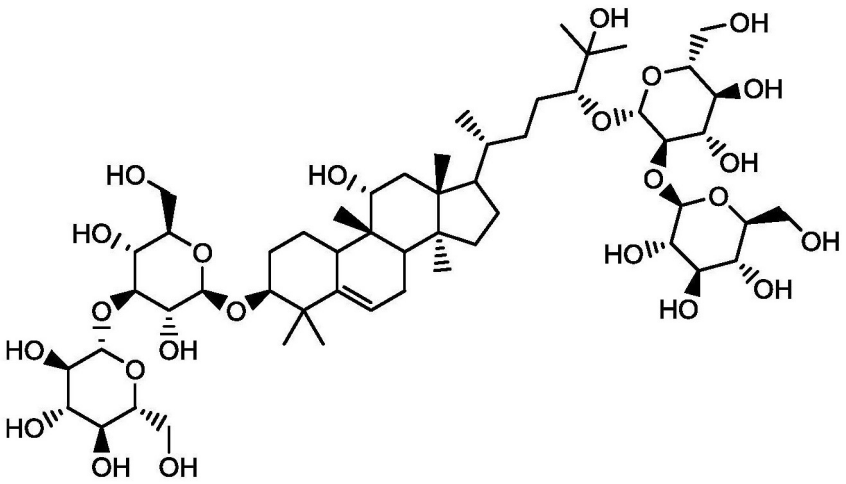
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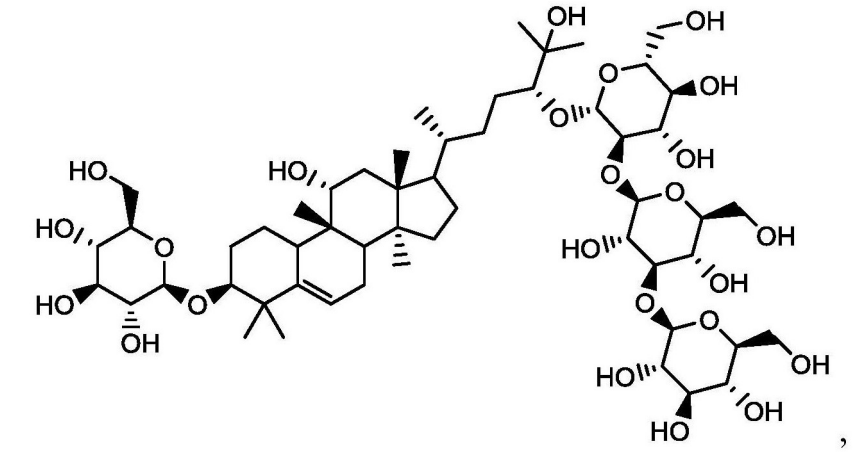
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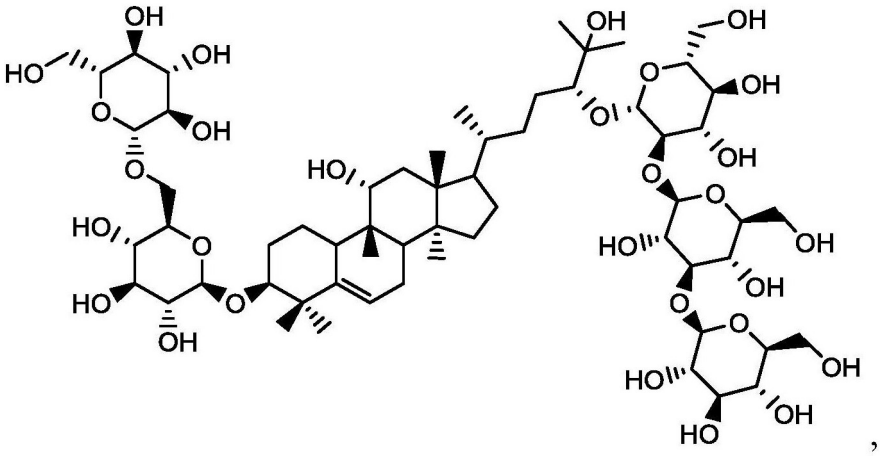
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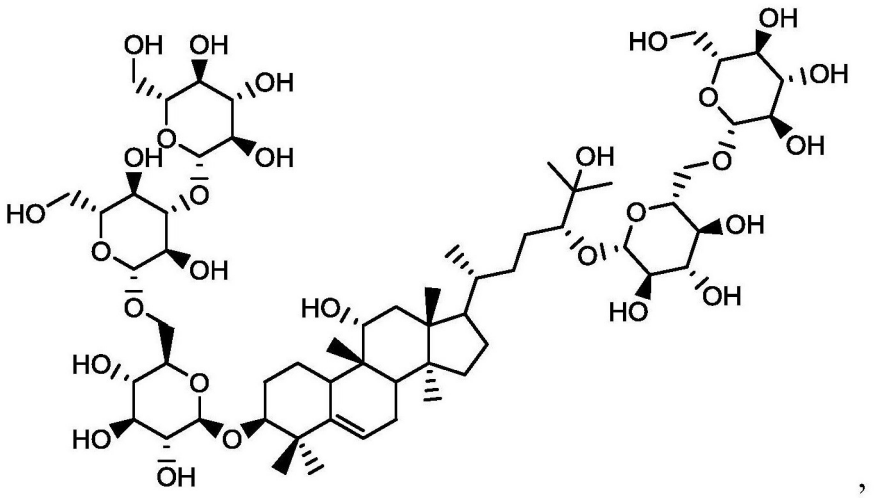
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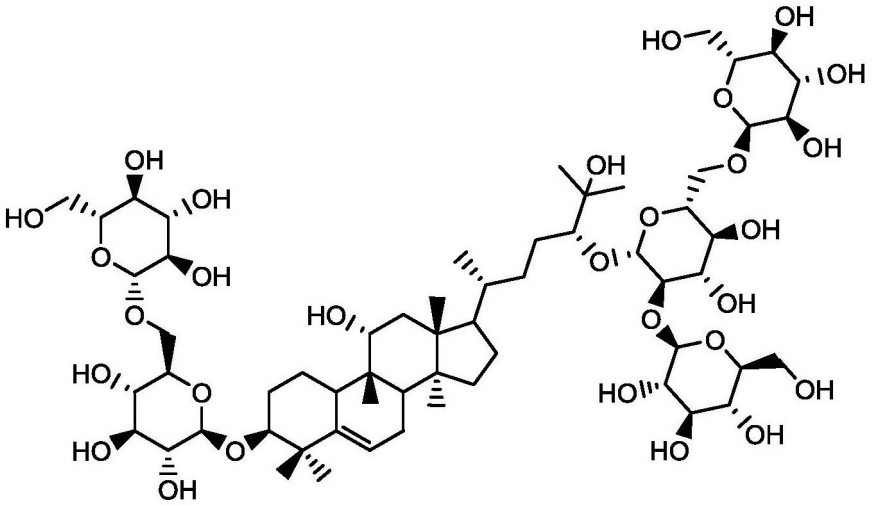
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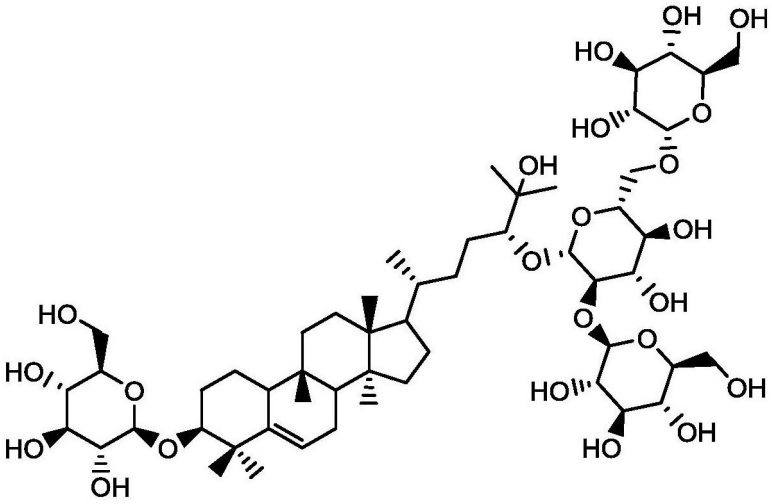
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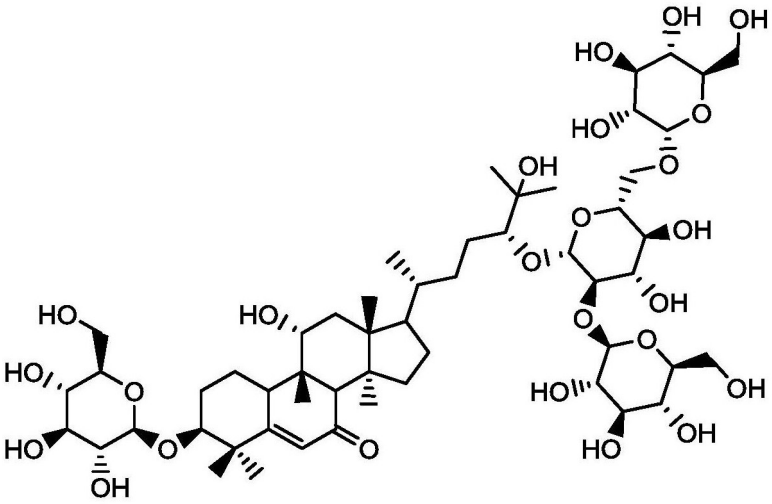
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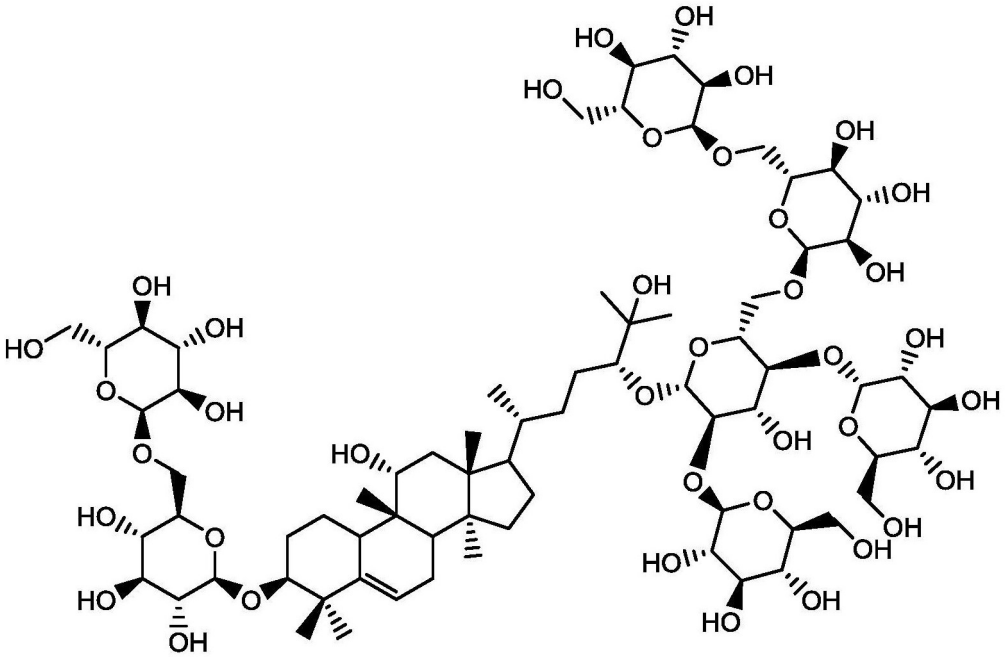
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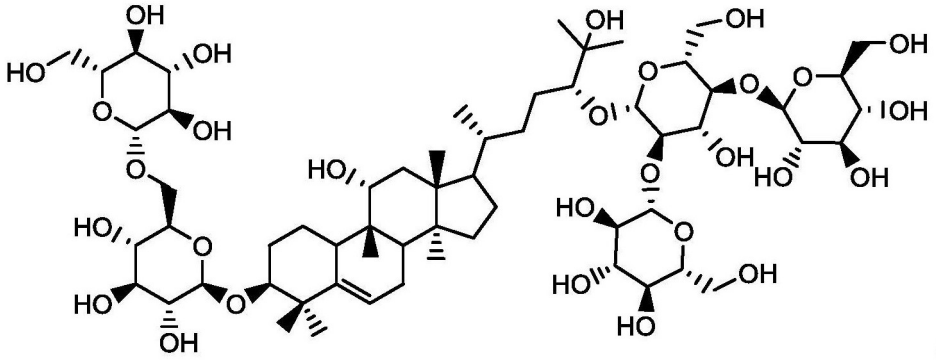
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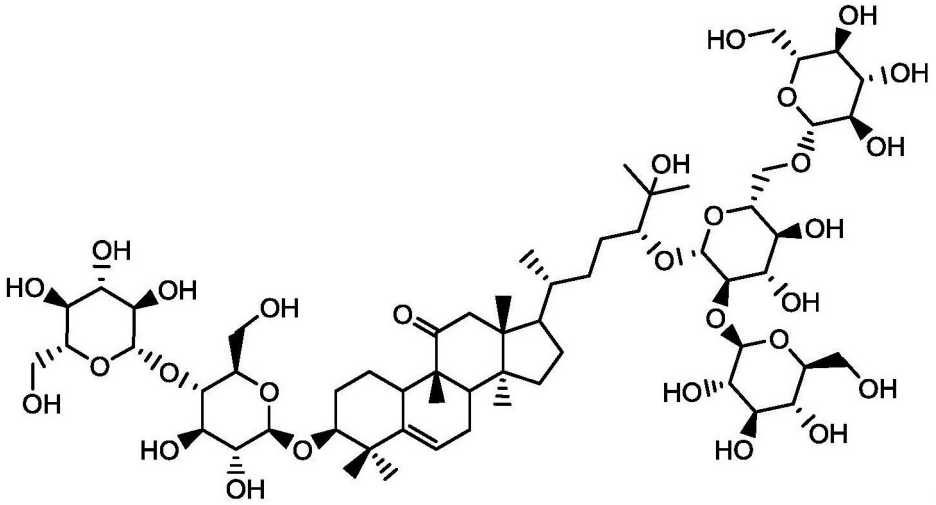
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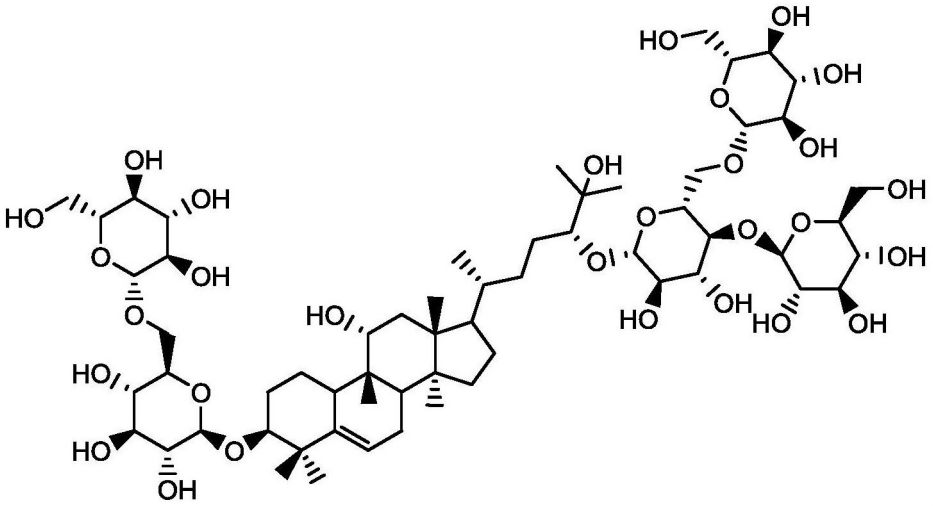
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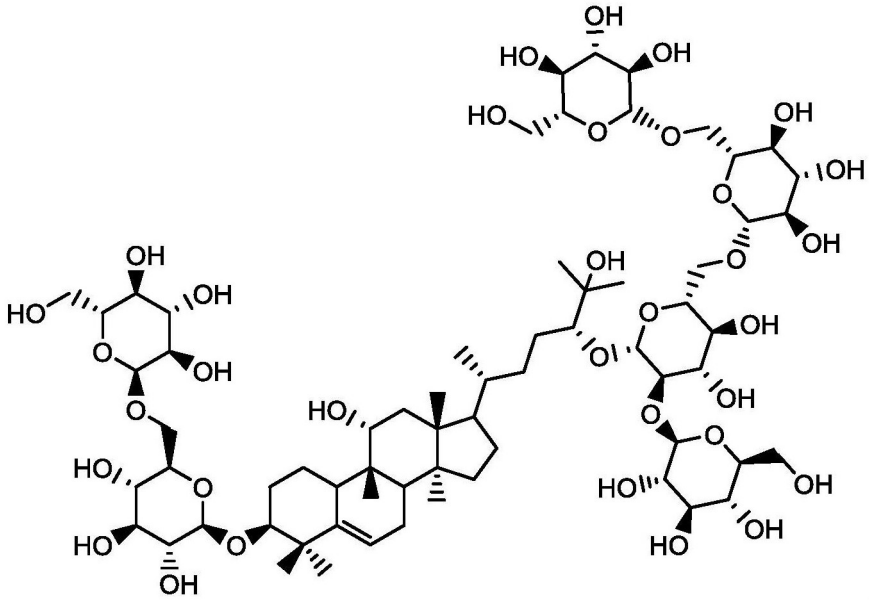
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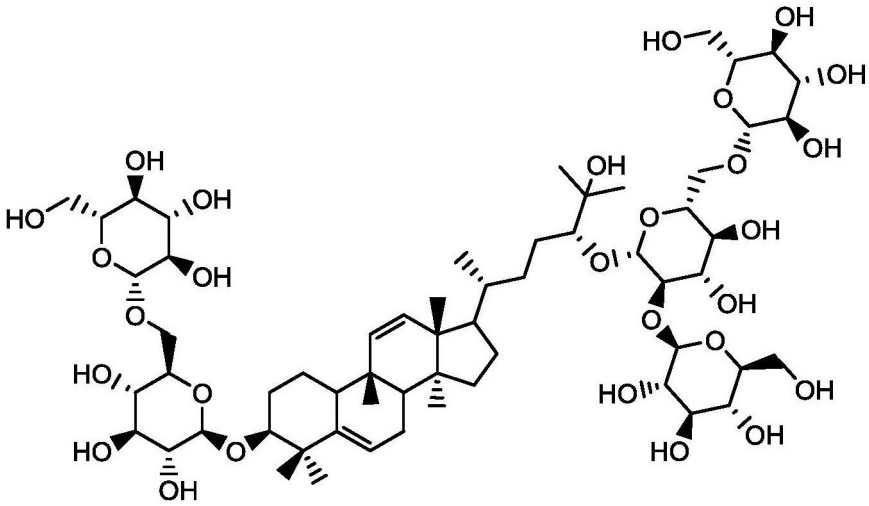
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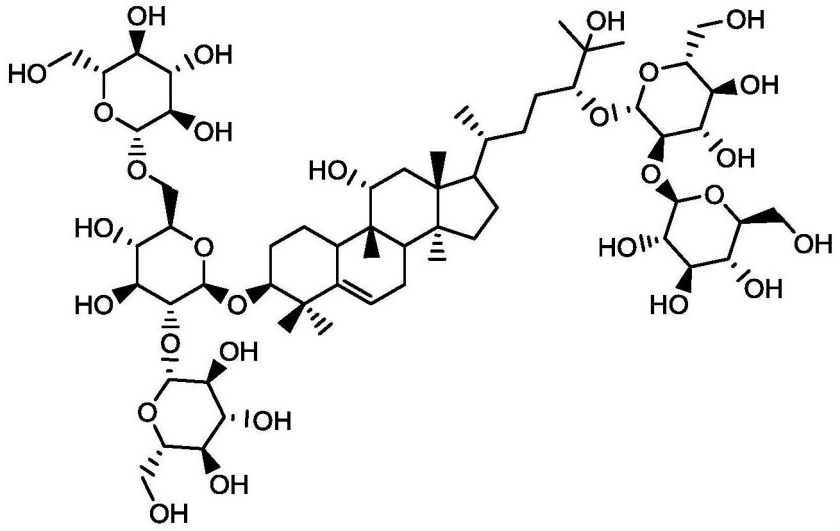
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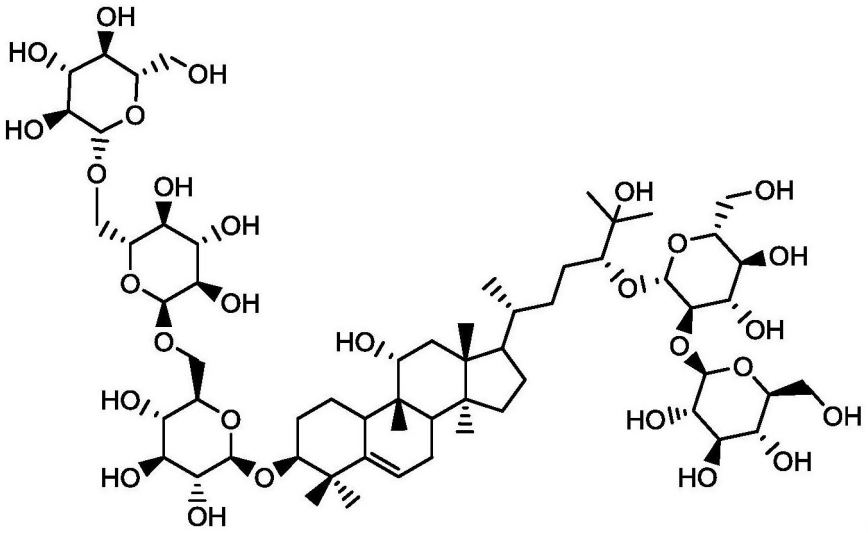
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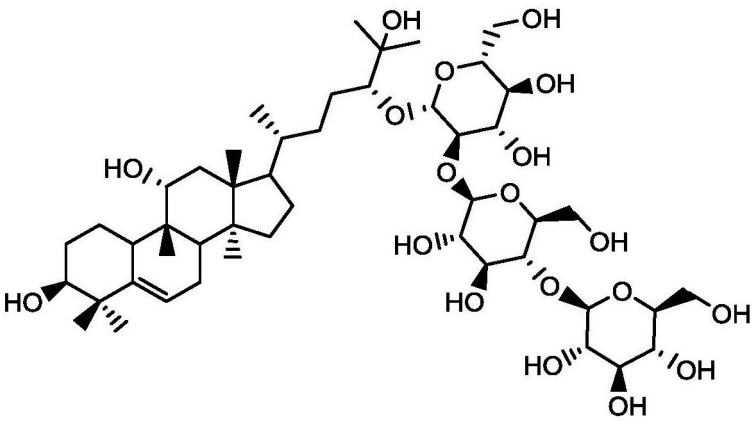
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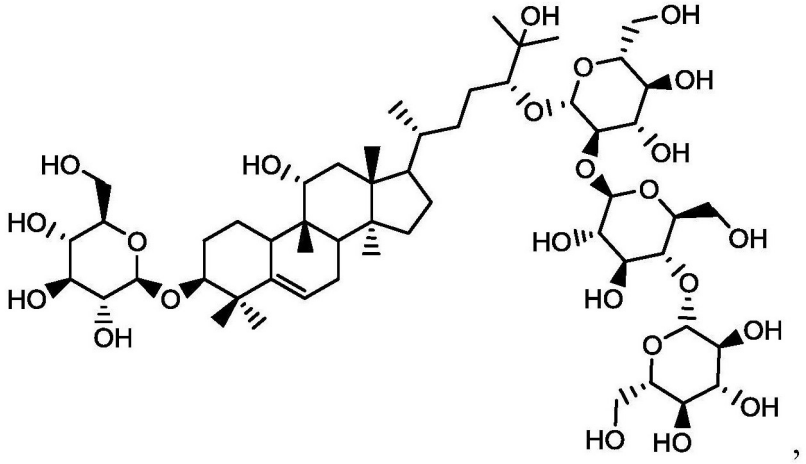
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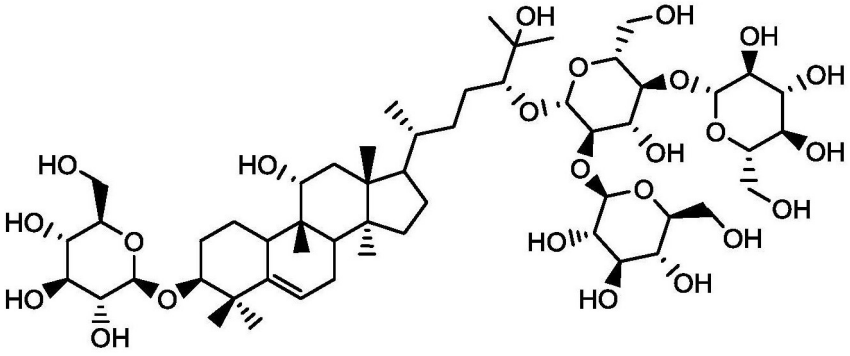
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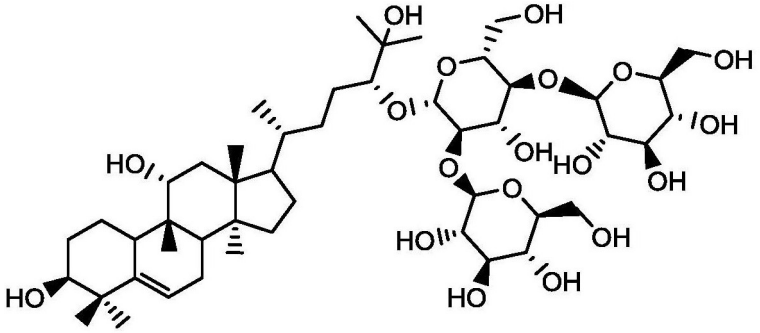
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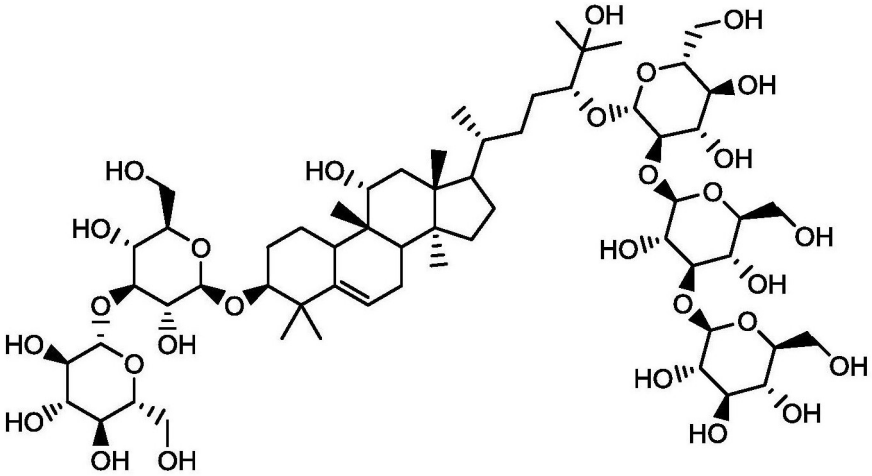
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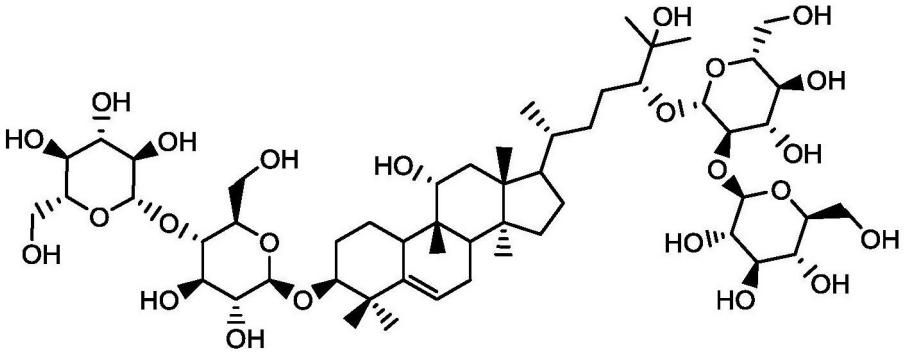
176.制备具有以下结构的化合物的方法：



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所述方法包括用葡萄糖转移酶UGT76G1处理罗汉果苷III_E。

177.制备具有化合物1的结构的化合物的方法：



(1)，

所述方法包括将罗汉果(Siraitia grosvenorii)的提取物在HPLC柱上分级，并且收集包含化合物1的洗脱级分。

高强度甜味剂

[0001] 背景

[0002] 领域

[0003] 本公开涉及化学和食品、饮料和其他可摄取组合物的领域。更具体地，本公开涉及甜味化合物、甜味增强剂及其组合，用于诸如食品和饮料的可摄取组合物，以及其他的可摄取或口服施用的医药产品或组合物。

[0004] 背景描述

[0005] 味觉系统提供了关于外界化学组合物的感觉信息。味觉传导是动物的化学诱发感觉的最复杂的形式之一。在整个动物界中，从简单的后生动物到最复杂的脊椎动物，均存在味觉的信号转导。哺乳动物被认为具有5种基本的味觉形式：甜味、苦味、酸味、咸味和甘味(谷氨酸一钠的味道，又名鲜美味道)。

[0006] 几个世纪以来，向可摄取组合物(包括食品和饮料)添加了各种天然和非天然组合物和/或化合物，和/或口服施用的医药组合物，以改善它们的味道。虽然很早就了解到仅存在几种基本类型的“味道”，但对于味觉的生物基础和生物化学基础却了解很少，并且大部分味道改善剂或味道改性剂主要通过简单的实验和试错过程来发现。

[0007] 对于甜味而言，糖尿病和心血管疾病是在全球范围增加的健康问题，但在美国它们正在以令人担忧的速率发展。糖和卡路里是可以被限制以得到对健康具有积极营养作用的关键组分。高强度甜味剂可以提供糖的甜味，并具有各种味道品质。因为它们比糖甜很多倍，所以需要少得多的甜味剂来替代糖。

[0008] 高强度甜味剂具有宽范围的化学上不同的结构，并且因此具有不同的性质，例如，但不限于，气味、风味、口感和回味。这些性质，尤其是风味和回味，通常被认为是随着品尝的时间而改变的，使得各个时间曲线(temporal profile)是甜味剂特异性的。

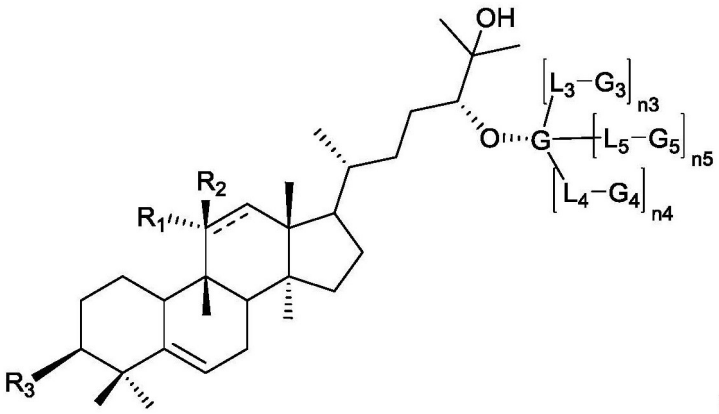
[0009] 最近在鉴定有用的天然增味剂的方面具有显著的进展，所述增味剂例如甜味剂，例如蔗糖、果糖、葡萄糖、赤藓糖醇、异麦芽酮糖醇、乳糖醇、甘露糖醇、山梨糖醇、木糖醇、某些已知的天然萜类、黄酮类、或蛋白质甜味剂。参见，例如，Kinghom等人，“Noncariogenic Intense Natural Sweeteners”，Med.Res.Rev.18(5)347-360(1998)(讨论了相比诸如蔗糖、果糖等的常见天然甜味剂在强度上甜得多的经发现的天然物质)。类似地，最近在新型人造甜味剂的鉴定和商业化方面取得了进展，所述新型人造甜味剂例如阿斯巴甜、糖精、乙酰舒泛-K、环己氨磺酸盐(cyclamate)、三氯蔗糖等。参见，例如，Ager等人，Angew.Chem.Int.Ed.37,1802-1817(1998)。上述文献的全部公开内容通过引用整体并入本文。

[0010] 诸如糖精和6-甲基-1,2,3-噁噻嗪-4(3H)-酮-2,2-二氧化物钾盐(乙酰舒泛钾)的甜味剂通常特征为具有苦味和/或金属回味。使用2,4-二羟基苯甲酸制备的产品据称表现出减少的与甜味剂有关的不期望的回味，并且在低于它们自身的味道可察觉的那些浓度的浓度下正是如此。并且，诸如三氯蔗糖和阿斯巴甜的高强度甜味剂被报导具有甜味递送问题，即，甜味的延迟起效和残留。参见S.G.Wiet等人，J.Food Sci.,58(3):599-602,666(1993)。

[0011] 需要具有改善的味道和递送特性的新型甜化化合物、甜味增强剂、以及含有此类化合物和增强剂的组合物。另外，需要含有具有此类期望特性的新型甜化化合物和/或甜味增强剂的食品。

[0012] 概述

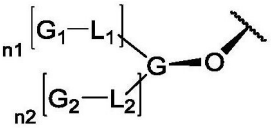
[0013] 一些实施方案提供了具有式(I)的结构的化合物：

[0014]  或其盐。

(I)，

[0015] 在一些实施方案中，------表示碳-碳单键或碳-碳双键。

[0016] 在一些实施方案中，R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团。

[0017] 在一些实施方案中，R_3选自-OH和  。

[0018] 在一些实施方案中，n^1、n^2、n^3、n^4和n^5各自独立地为0至3的整数。

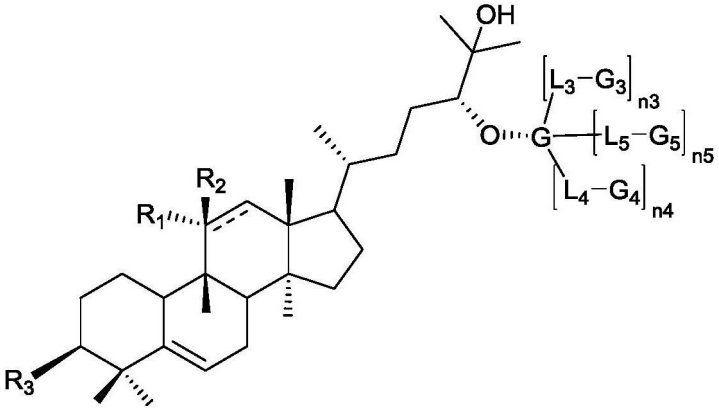
[0019] 在一些实施方案中，G、G_1、G_2、G_3、G_4和G_5各自独立地为呋喃糖部分或吡喃糖部分。

[0020] 在一些实施方案中，L_1、L_2、L_3、L_4和L_5各自独立地为糖苷键。

[0021] 当------为碳-碳双键时，R_1不存在。

[0022] 在一些实施方案中，化合物为分离的形式。在一些实施方案中，化合物为纯化的形式。在一些实施方案中，化合物为分离且纯化的形式。

[0023] 一些实施方案提供了组合物，其包含一种或多种具有式(I)的结构的化合物：

[0024]  或其盐。

(I)，

[0025] 在一些实施方案中，组合物包含大于50重量％的化合物。

[0026] 在一些实施方案中，组合物包含小于1重量％的罗汉果苷III_E。在一些实施方案

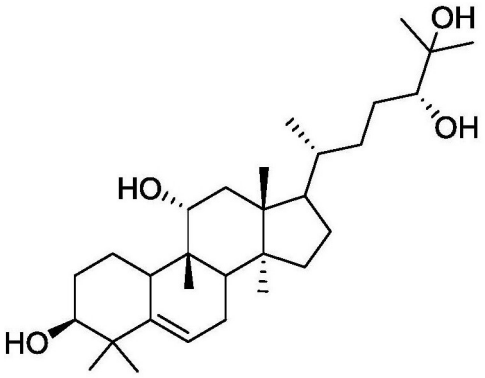
中，组合物包含小于0.5重量％的罗汉果苷III_E。在一些实施方案中，组合物包含小于0.1重量％的罗汉果苷III_E。

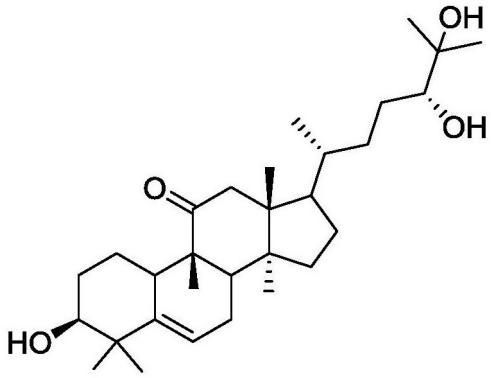
[0027] 在一些实施方案中，组合物包含小于0.3重量％的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含小于0.3重量％的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含小于0.1重量％的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含小于0.05重量％的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含小于0.01重量％的11-氧代-罗汉果苷III_E。

[0028] 在一些实施方案中，组合物包含小于1重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含小于0.5重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含小于0.1重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含小于0.1重量％的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。

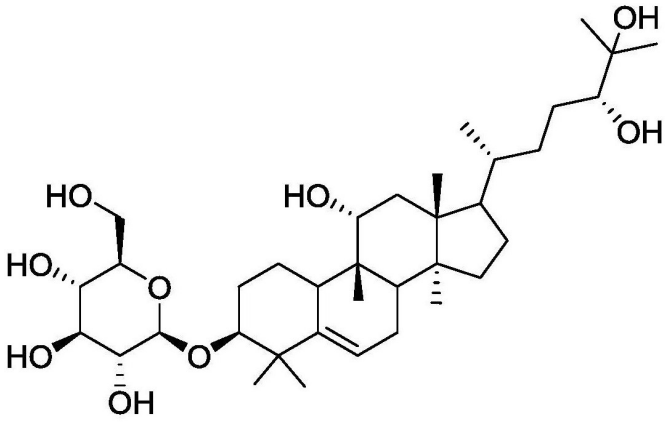
[0029] 在一些实施方案中，组合物包含小于1重量％的11-氧代-罗汉果醇。在一些实施方案中，组合物包含小于0.5重量％的11-氧代-罗汉果醇。在一些实施方案中，组合物包含小于0.1重量％的11-氧代-罗汉果醇。

[0030] 在一些实施方案中，组合物包含一种或多种选自以下的另外的化合物：罗汉果醇，11-氧代-罗汉果醇，

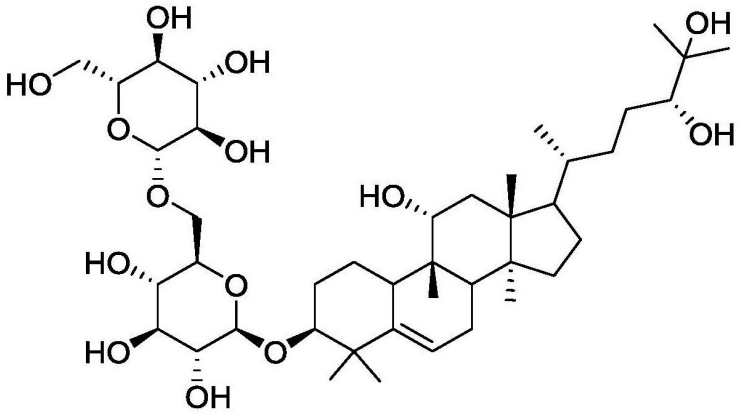
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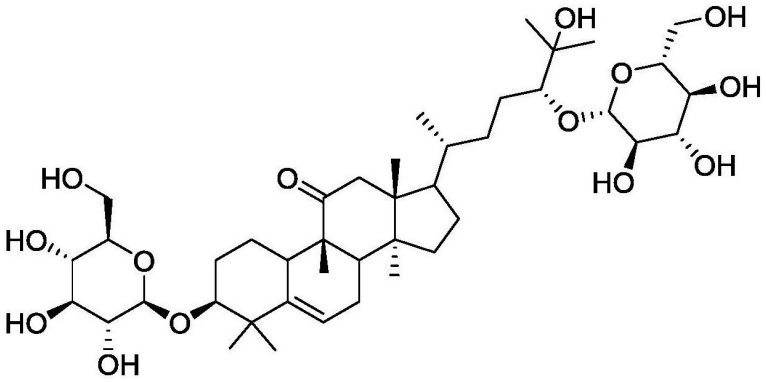
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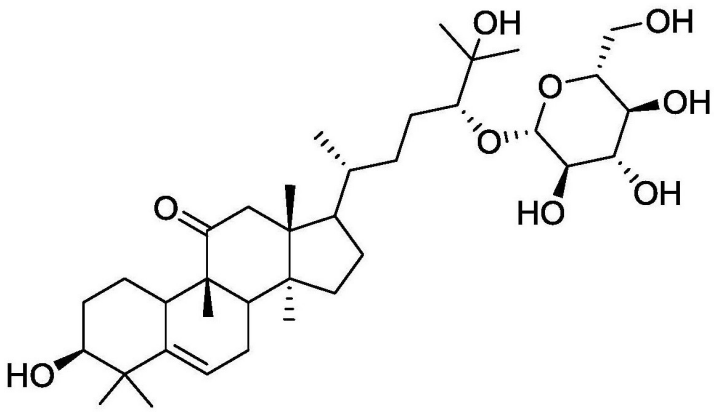
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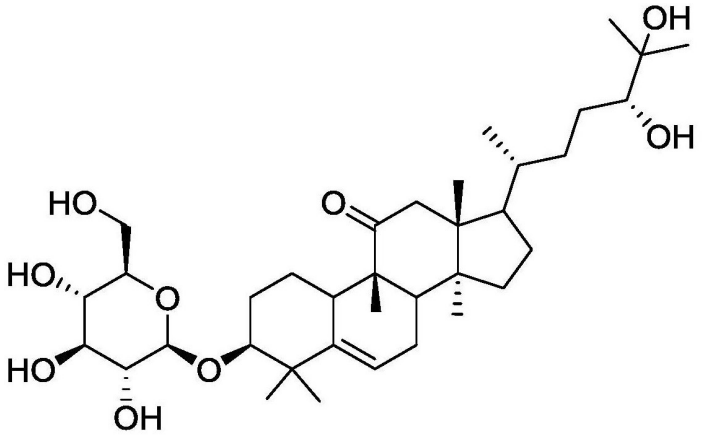
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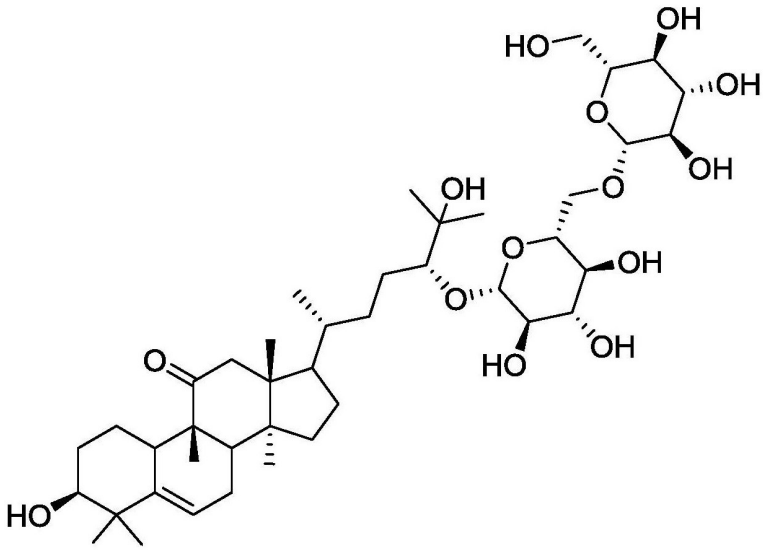


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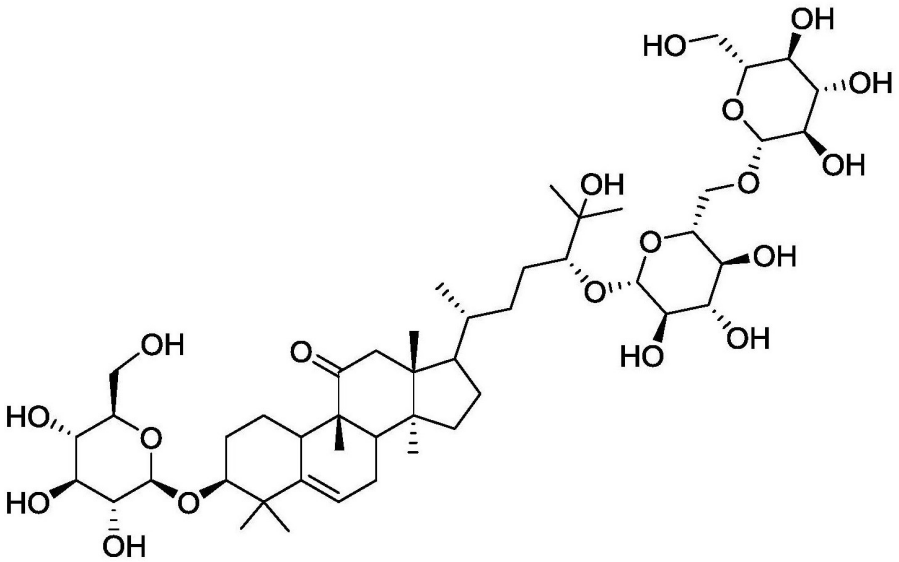


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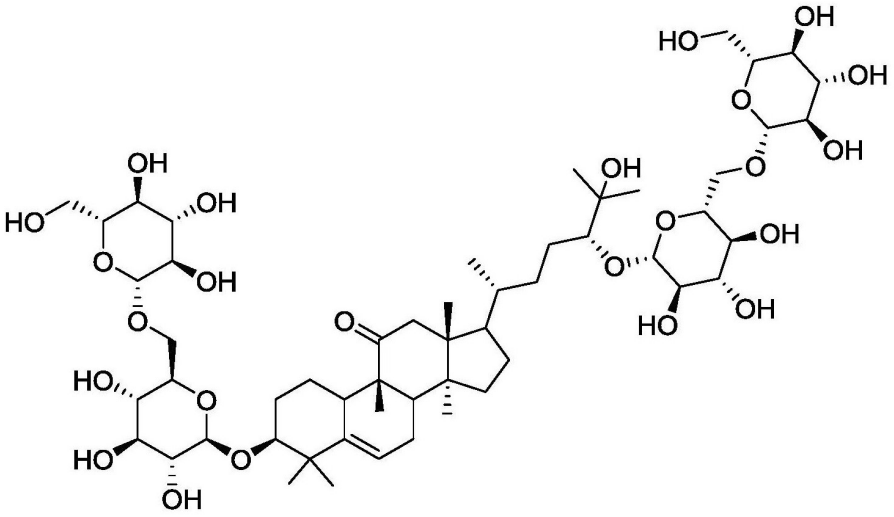
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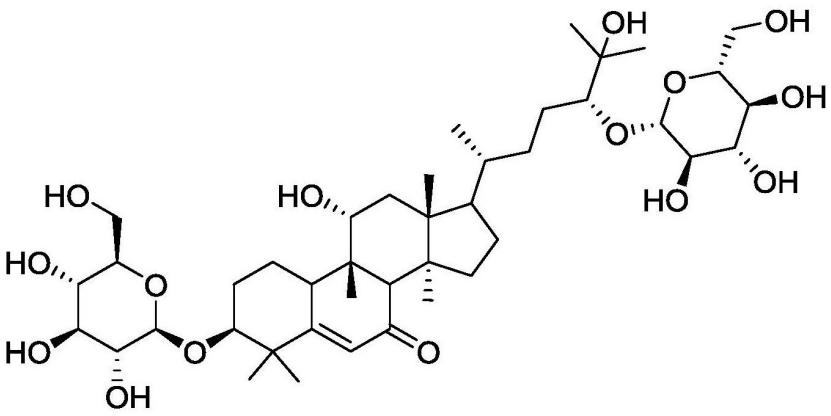


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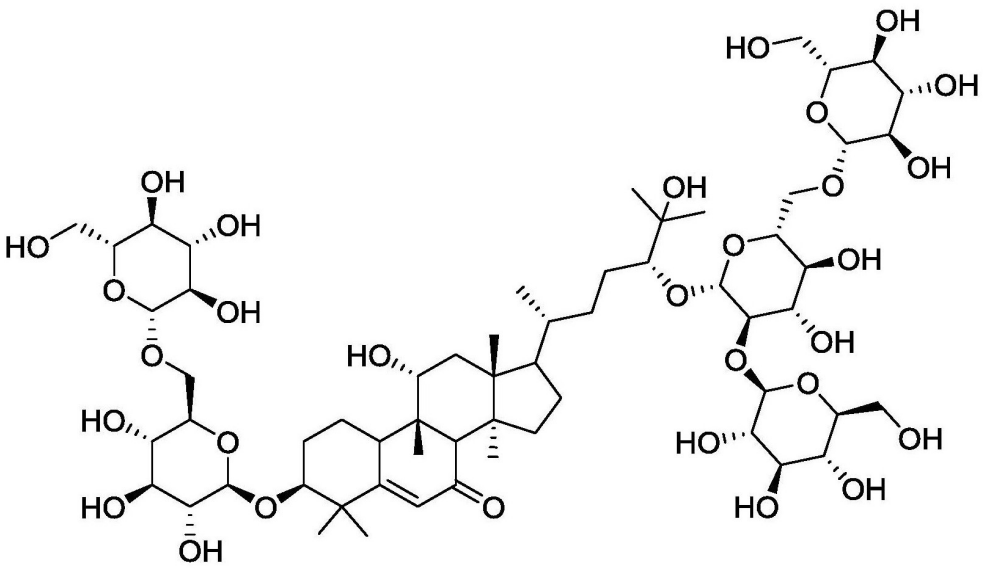


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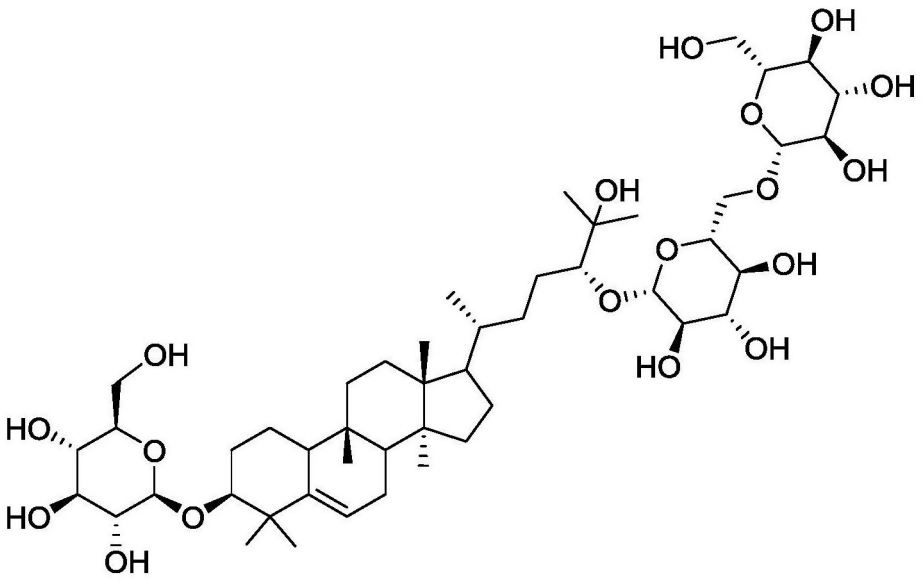


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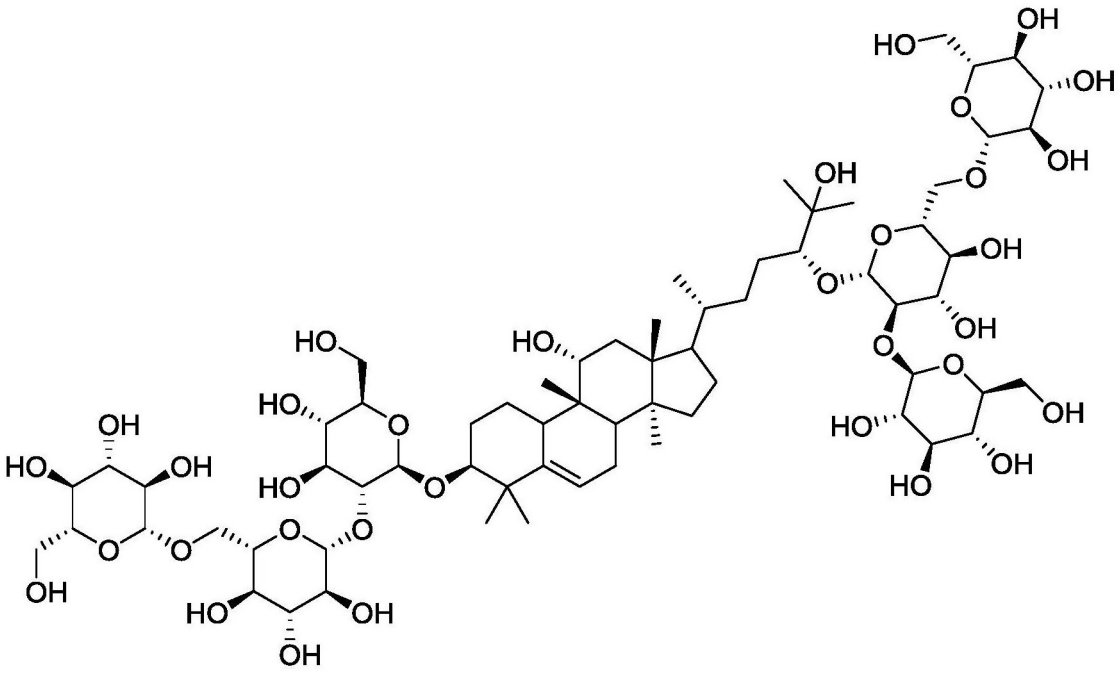


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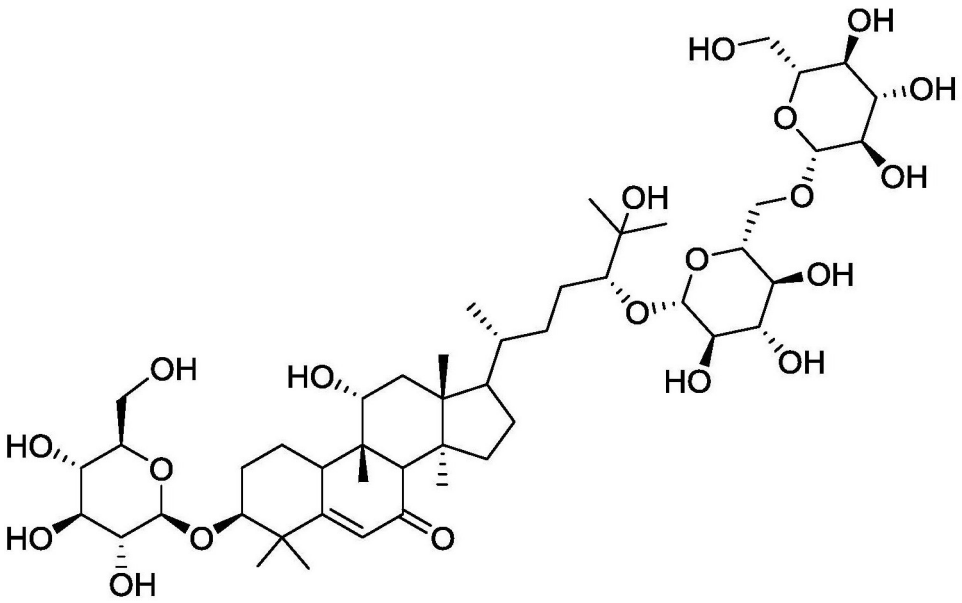


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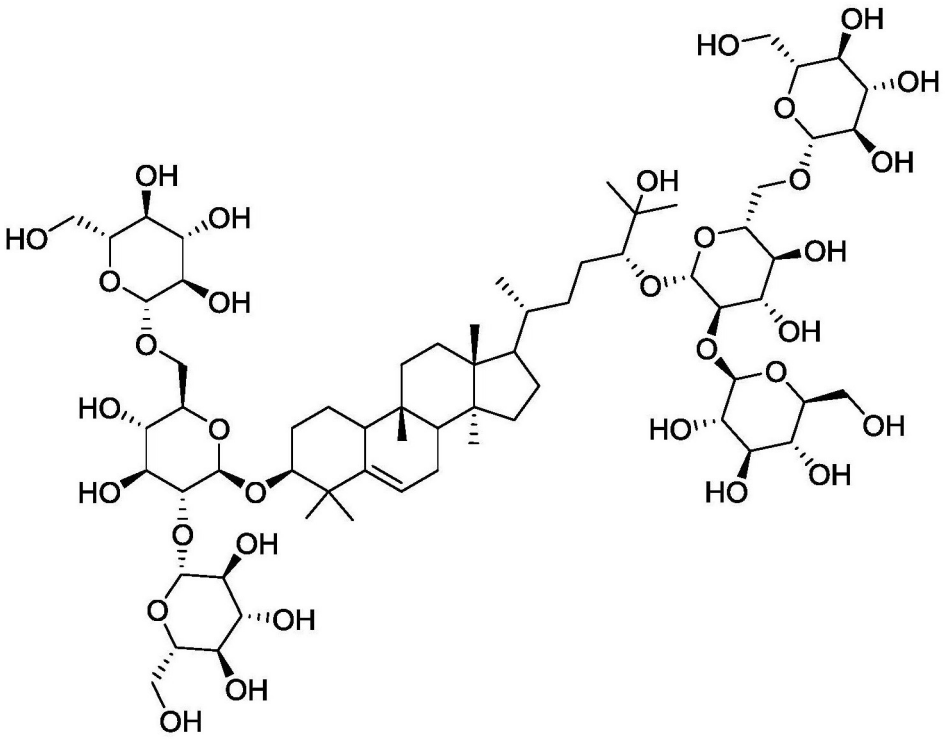


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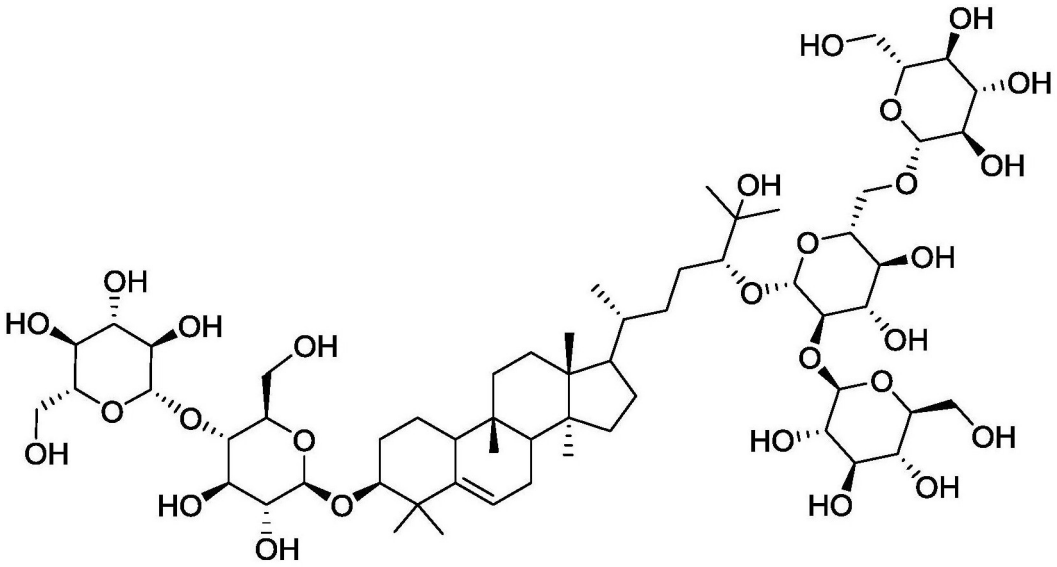


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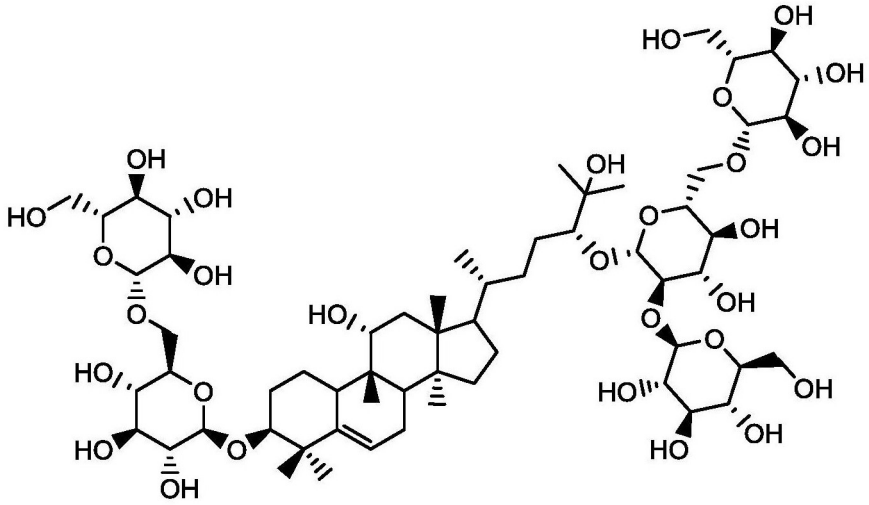


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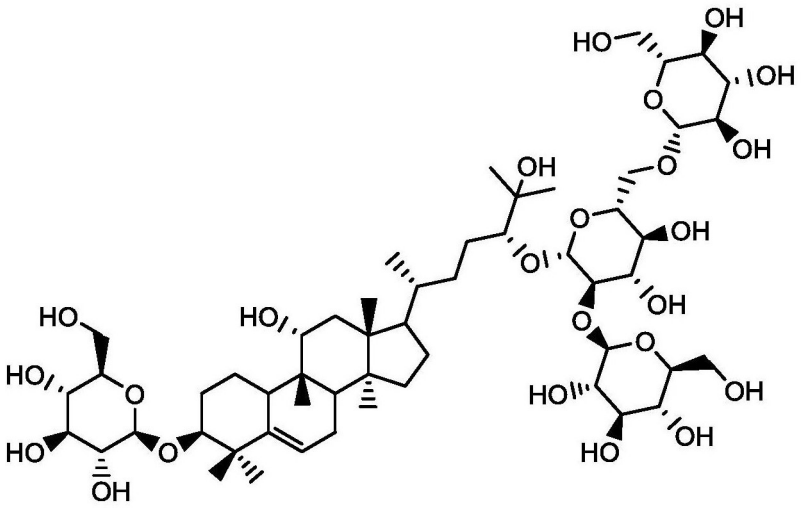
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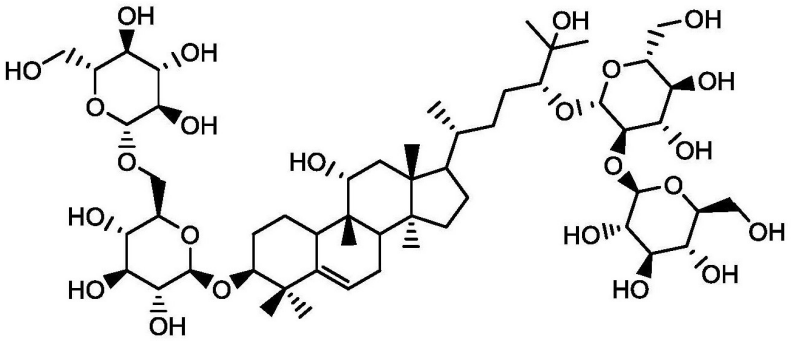
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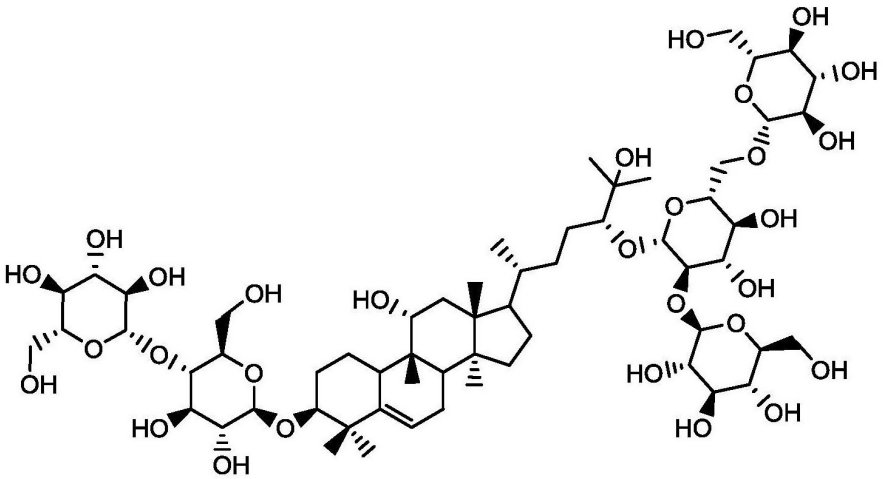
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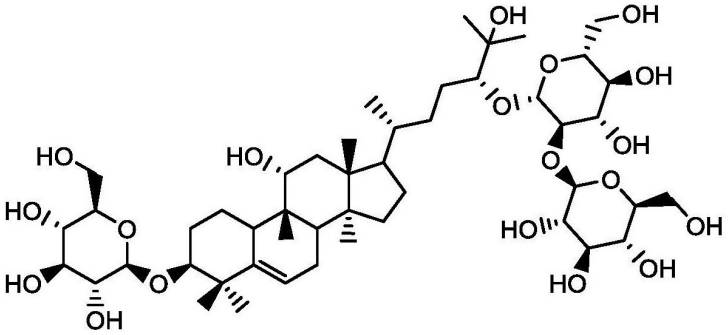


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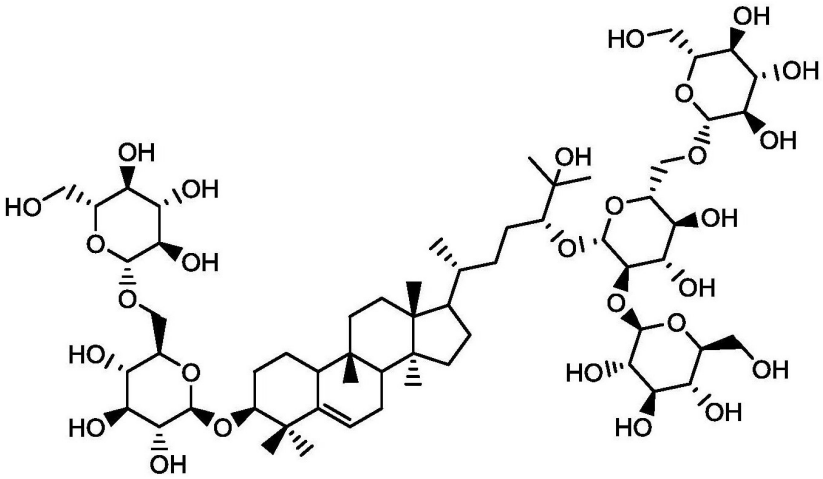


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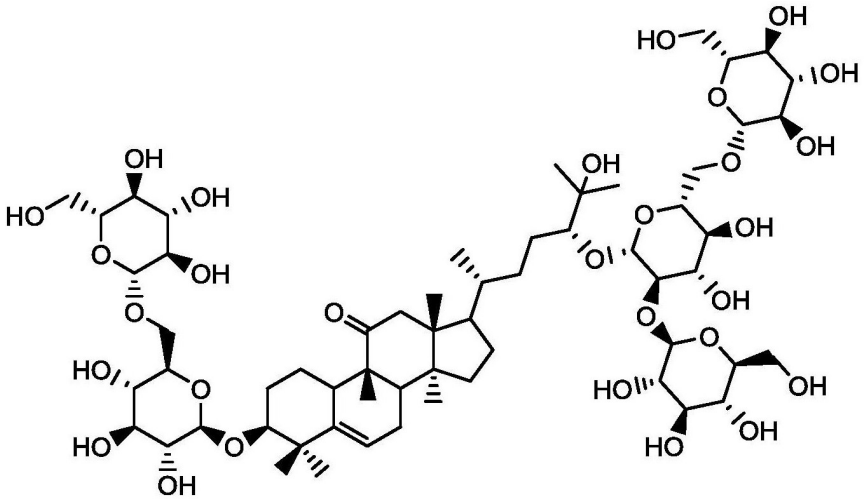


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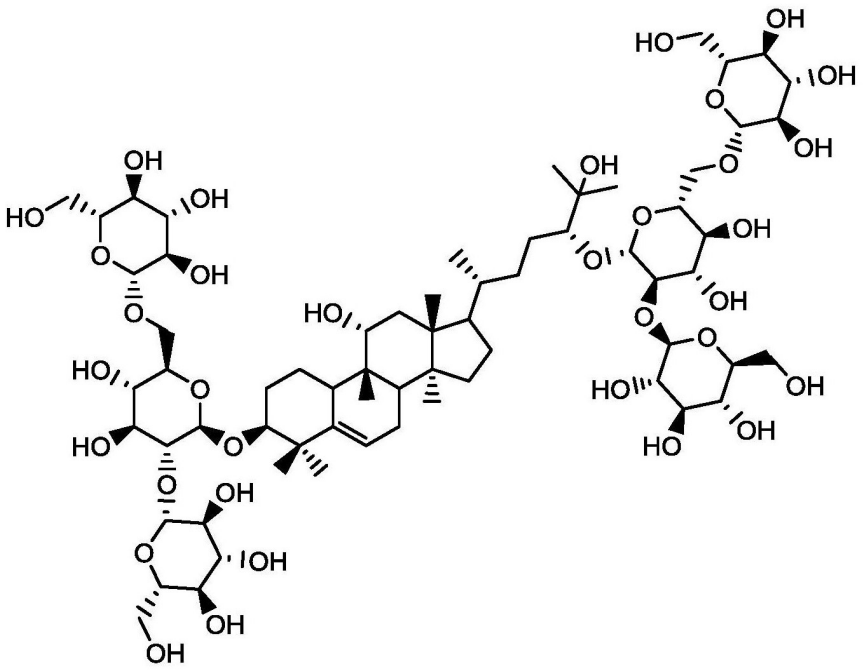


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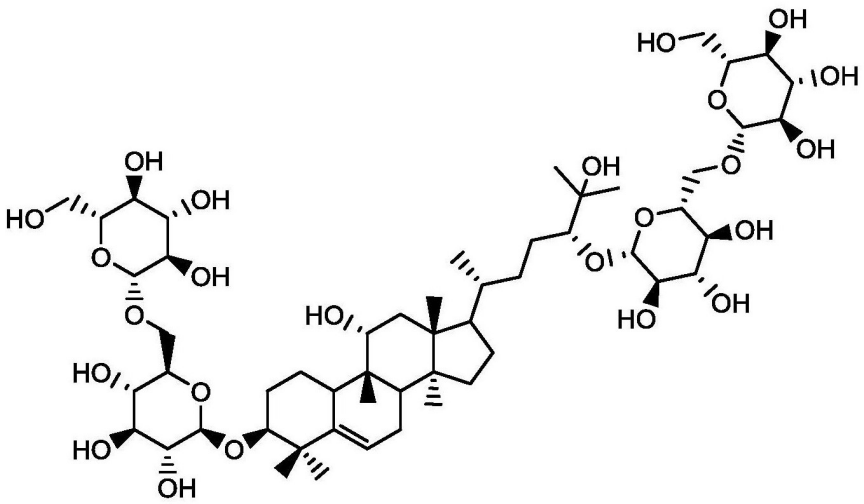
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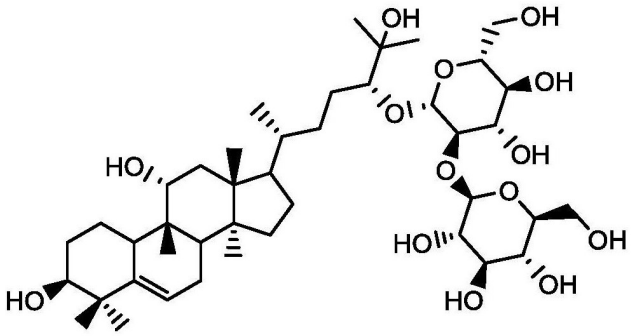


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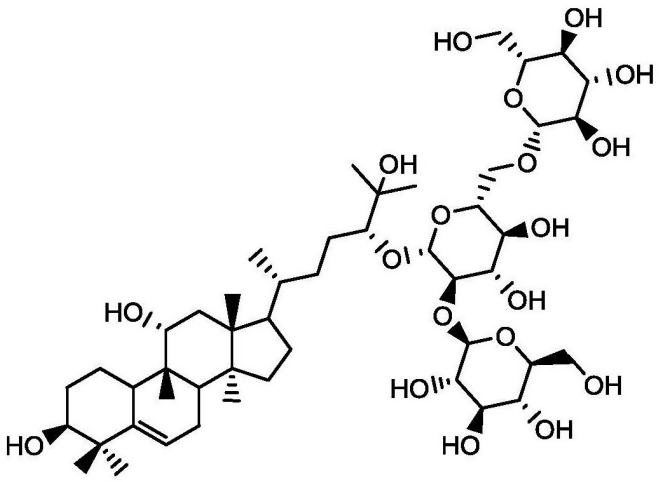


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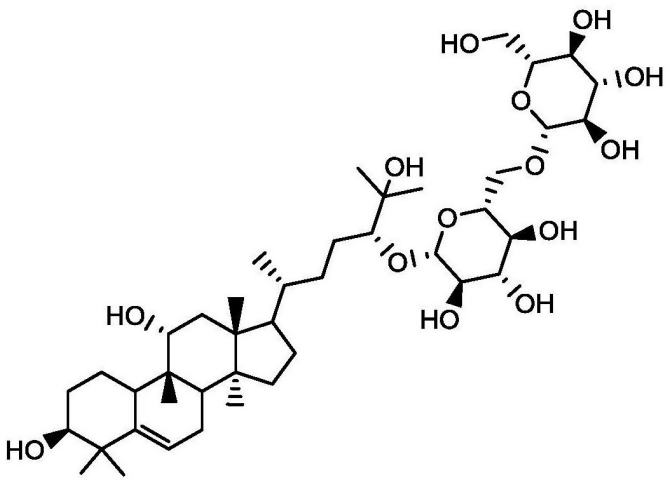
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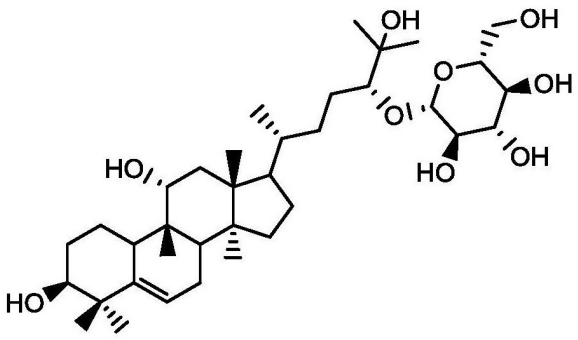
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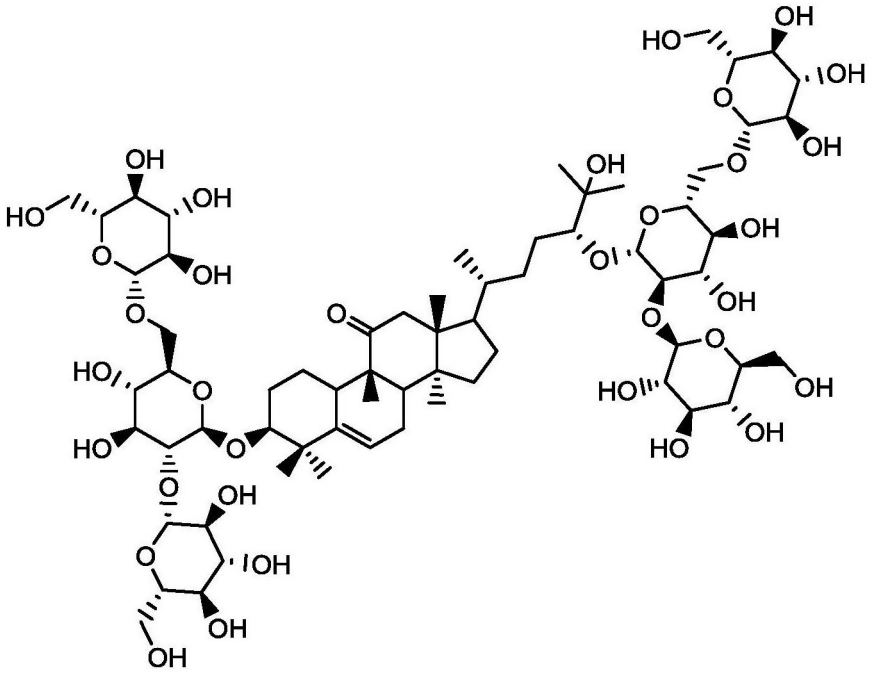

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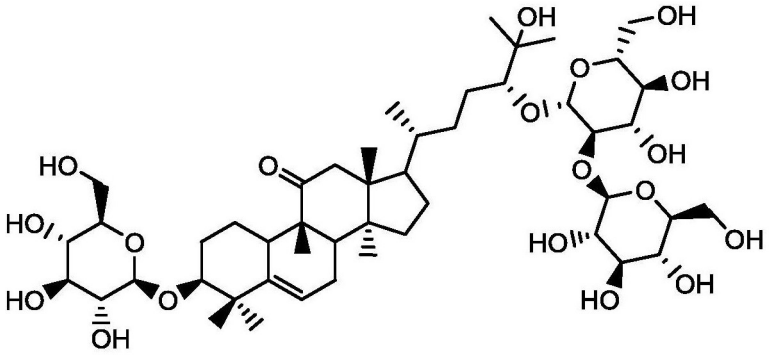

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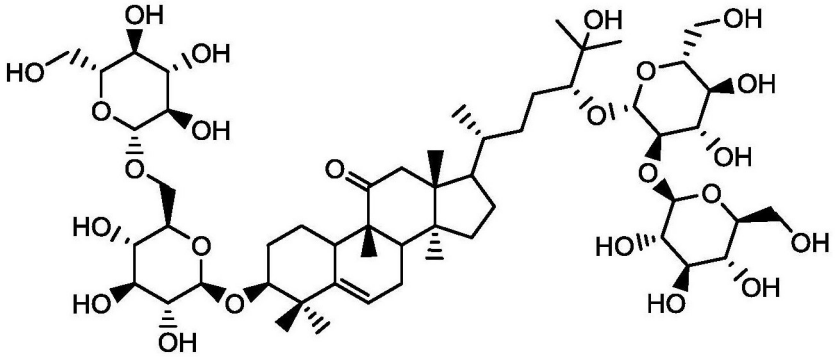
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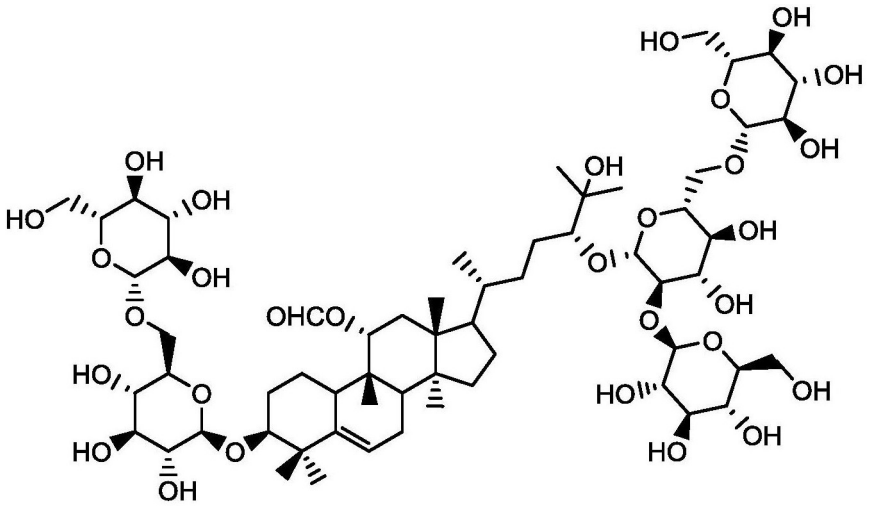


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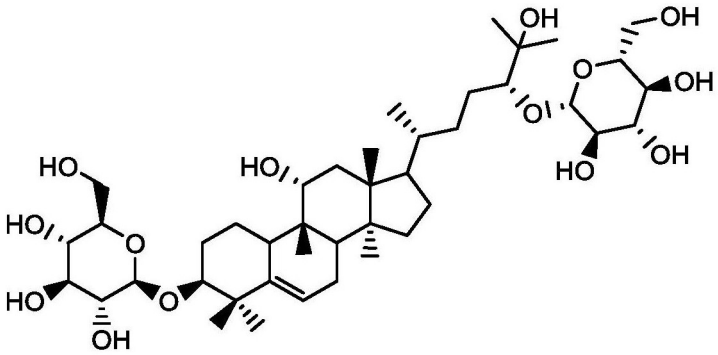


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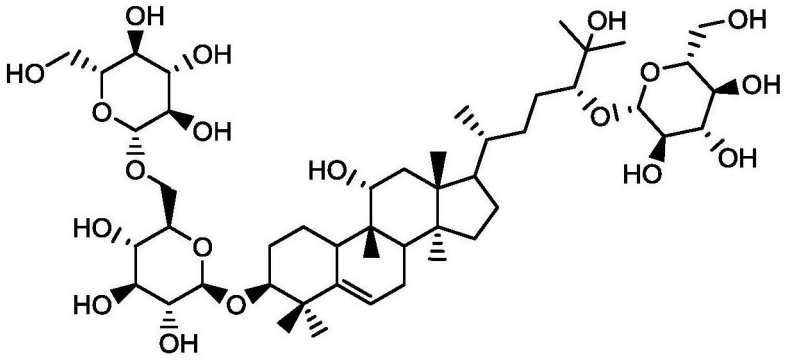
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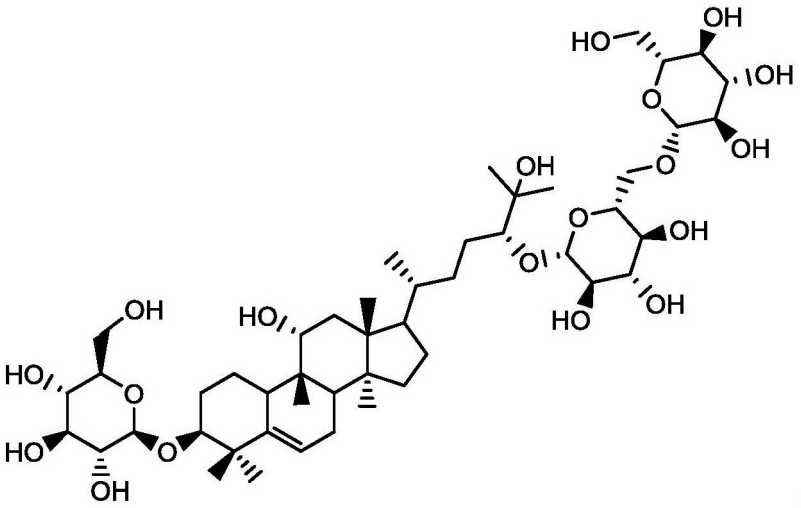
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[0043]  以及其盐和组合。

[0044] 在一些实施方案中，组合物包含大于70重量％的一种或多种式(I)的化合物。在一些实施方案中，组合物包含大于80重量％的一种或多种式(I)的化合物。在一些实施方案中，组合物包含大于90重量％的一种或多种式(I)的化合物。

[0045] 在一些实施方案中，组合物为固体形式。在一些实施方案中，化合物为结晶形式。在一些实施方案中，化合物为无定形形式。在一些实施方案中，化合物涂覆固体载体。

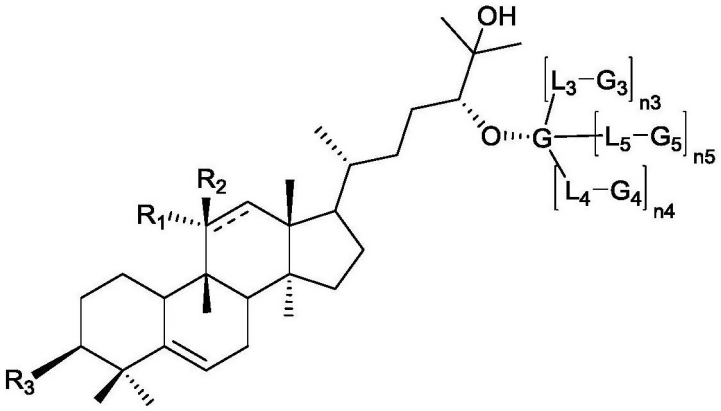
[0046] 在一些实施方案中，固体载体是选自乳糖、改性食品淀粉、阿拉伯胶、麦芽糖糊精、改性玉米淀粉、右旋糖、黄原胶、羧甲基纤维素、纤维素凝胶、纤维素胶、酪蛋白酸钠、角叉菜胶及其组合的颗粒。

[0047] 在一些实施方案中，组合物为颗粒形式。

[0048] 在一些实施方案中，组合物具有50μm至300μm的平均粒径。在一些实施方案中，组合物具有80μm至200μm的平均粒径。在一些实施方案中，组合物具有80μm至150μm的平均粒径。

[0049] 一些实施方案提供了包含液体载体中的组合物的固体颗粒的组合物。在一些实施方案中，固体颗粒悬浮于液体载体。在一些实施方案中，液体载体选自水、醇、丙二醇、三醋酸甘油酯、中链甘油三酯、甘油及其组合。在一些实施方案中，液体载体为水。在一些实施方案中，液体载体为醇。在一些实施方案中，所述醇为乙醇。

[0050] 一些实施方案提供了组合物，其包含一种或多种具有式(I)的结构的化合物：

[0051]  或其盐的溶液。

(I)，

[0052] 在一些实施方案中，溶液中化合物的浓度大于300ppm。在一些实施方案中，溶液中化合物的浓度大于500ppm。在一些实施方案中，溶液中化合物的浓度大于800ppm。在一些实

施方案中，溶液中化合物的浓度大于0.1重量％。在一些实施方案中，溶液中化合物的浓度大于0.5重量％。在一些实施方案中，溶液中化合物的浓度大于1重量％。在一些实施方案中，溶液中化合物的浓度大于5重量％。在一些实施方案中，溶液中化合物的浓度大于10重量％。

[0053] 在一些实施方案中，溶液是水性的。在一些实施方案中，溶液是醇溶液。在一些实施方案中，醇为乙醇。

[0054] 在一些实施方案中，组合物包含浓度小于100ppm的罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于50ppm的罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于20ppm的罗汉果苷III_E。

[0055] 在一些实施方案中，组合物包含浓度小于5ppm的罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于30ppm的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于10ppm的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于1ppm的11-氧代-罗汉果苷III_E。在一些实施方案中，组合物包含浓度小于0.1ppm的11-氧代-罗汉果苷III_E。

[0056] 在一些实施方案中，组合物包含组合浓度小于1重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含组合浓度小于0.5重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含组合浓度小于0.1重量％的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

[0057] 在一些实施方案中，组合物包含组合浓度小于500ppm的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物包含组合浓度小于100ppm的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。

[0058] 在一些实施方案中，组合物包含组合浓度小于500ppm的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。在一些实施方案中，组合物包含组合浓度小于100ppm的罗汉果苷III_E、11-氧代-罗汉果苷III_E、罗汉果苷III_{A2}、罗汉果苷I_E和罗汉果苷II_E。

[0059] 在一些实施方案中，组合物包含浓度小于0.5重量％的11-氧代-罗汉果醇。在一些实施方案中，组合物包含浓度小于0.1重量％的11-氧代-罗汉果醇。在一些实施方案中，组合物包含浓度小于100ppm的11-氧代-罗汉果醇。

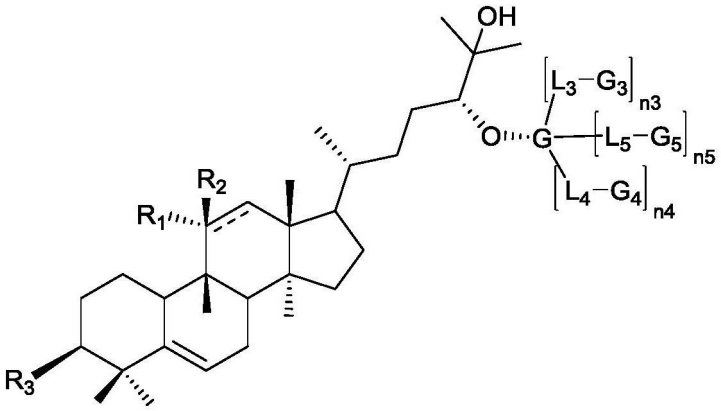
[0060] 在一些实施方案中，组合物包含一种或多种选自以下的另外的化合物：罗汉果苷V、赛门苷I、罗汉果苷IV_E、异罗汉果苷V、罗汉果苷III_E、11-脱氧-罗汉果苷V、11-氧代-罗汉果苷V、罗汉果苷VI、罗汉果苷IV_A、罗汉果苷II_A、罗汉果苷II_{A1}、罗汉果苷II_{A2}、罗汉果苷I_A、11-氧代-罗汉果苷VI、11-氧代-罗汉果苷III_E、11-氧代-罗汉果苷IV_E、罗汉果苷I_E、罗汉果醇、11-氧代-罗汉果醇、罗汉果苷II_E、罗汉果苷III_{A2}和罗汉果苷III。

[0061] 在一些实施方案中，组合物包含一种或多种选自以下的另外的化合物：甜菊苷、瑞鲍迪苷(rebaudiosides)、甘草酸、甘草甜素、GAMG(单葡糖醛酸基甘草次酸)、索马甜(thaumatin)、莫奈林(monellin)、布那珍(brazzein)、仙茅甜蛋白(curculin)、马槟榔甜蛋白(mabinlin)、潘塔亭(pentadin)、莫那甜(monatin)、万年甘三萜苷(abrusoside)、合欢树皂苷(albiziasaponin)、白云参苷(Baiyunoside)、bryoside、cussoracoside、青钱柳苷(cyclocarioside)、无患子倍半萜苷(mukurozioside)、欧亚水龙骨甜素(osladin)、巴西甘

草甜素(periandrin)、糙苏苷(phlomisoside)、多足蕨苷(Polypodoside)、皮提罗苷(pterocaryosides)、甜茶苷(rubusoside)、夜来香苷(telosmoside)、落蕨素A(selligueain A)、荷南度辛(hernandulcin)、根皮苷(phlorizin)、三叶苷(trilobatin)、叶甜素(phylodulcin)、杜尔可苷A(dulcoside A)、gaudichaudioside A及其组合。

[0062] 在一些实施方案中,组合物具有小于或等于7的pH。在一些实施方案中,组合物具有小于7的pH。在一些实施方案中,组合物具有大于或等于7的pH。在一些实施方案中,组合物具有大于7的pH。在一些实施方案中,组合物具有6至10的pH。在一些实施方案中,组合物具有6至9的pH。在一些实施方案中,组合物具有6至8的pH。在一些实施方案中,组合物具有6至7的pH。在一些实施方案中,组合物具有1至7的pH。在一些实施方案中,组合物具有1至6的pH。在一些实施方案中,组合物具有1至5的pH。在一些实施方案中,组合物具有1至4的pH。在一些实施方案中,组合物具有1至3的pH。在一些实施方案中,组合物具有约2的pH。在一些实施方案中,组合物具有约2.5的pH。在一些实施方案中,组合物具有约1.5的pH。在一些实施方案中,组合物具有约3的pH。在一些实施方案中,组合物具有约3.5的pH。在一些实施方案中,组合物具有约4的pH。在一些实施方案中,组合物具有约4.5的pH。在一些实施方案中,组合物具有约5的pH。

[0063] 一些实施方案提供了组合物,其包含填充剂和一种或多种具有式(I)的结构的化合物:

[0064] 

或其盐。

(I),

[0065] 在一些实施方案中,组合物包含大于0.5重量%的化合物。在一些实施方案中,组合物包含大于1重量%的化合物。在一些实施方案中,组合物包含大于2重量%的化合物。在一些实施方案中,组合物包含大于3重量%的化合物。在一些实施方案中,组合物包含0.5重量%至5重量%的化合物。在一些实施方案中,组合物包含1重量%至5重量%的化合物。

[0066] 在一些实施方案中,组合物包含大于30重量%的填充剂。在一些实施方案中,组合物包含大于40重量%的填充剂。在一些实施方案中,组合物包含大于50重量%的填充剂。在一些实施方案中,组合物包含大于70重量%的填充剂。在一些实施方案中,组合物包含大于90重量%的填充剂。

[0067] 在一些实施方案中,组合物包含30重量%至99.5重量%的填充剂。在一些实施方案中,组合物包含30重量%至95重量%的填充剂。在一些实施方案中,组合物包含50重量%至99.5重量%的填充剂。

[0068] 在一些实施方案中,填充剂选自麦芽糖糊精、右旋麦芽糖糊精掺混物、玉米糖浆固体、蔗糖、果糖、葡萄糖、转化糖、山梨糖醇、木糖、核酮糖、甘露糖、甘露糖醇、半乳糖醇、乳糖

醇、异麦芽糖醇、麦芽糖、塔格糖、乳糖、菊粉、甘油、丙二醇、聚右旋糖、低聚果糖、纤维素、纤维素衍生物、赤藓糖醇及其组合。

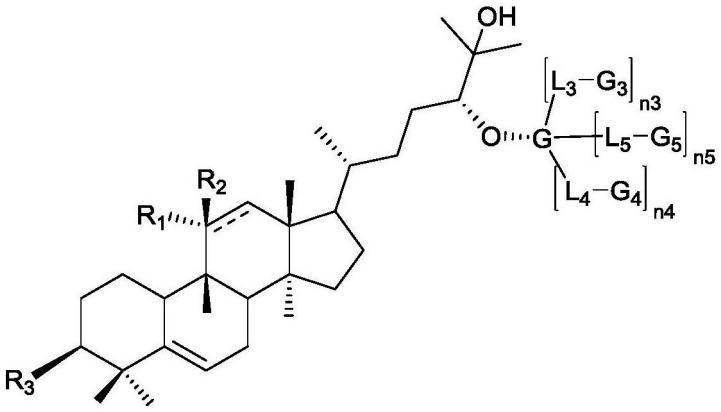
[0069] 在一些实施方案中，填充剂为麦芽糖糊精。在一些实施方案中，填充剂为乳糖。在一些实施方案中，填充剂为赤藓糖醇。在一些实施方案中，填充剂为甘露糖醇。

[0070] 在一些实施方案中，填充剂为颗粒形式，并且化合物作为颗粒上的涂层存在。在一些实施方案中，组合物为颗粒形式。

[0071] 在一些实施方案中，平均粒径为200μm至2mm。在一些实施方案中，平均粒径为200μm至500μm。在一些实施方案中，平均粒径为500μm至700μm。在一些实施方案中，平均粒径为800μm至1.5mm。

[0072] 在一些实施方案中，组合物为餐桌甜味剂产品，其包含含有组合物的包。在一些实施方案中，所述包为单份包(single serving packet)。在一些实施方案中，所述包具有0.2英寸至2英寸的宽度。在一些实施方案中，所述包具有0.5英寸至1英寸的宽度。在一些实施方案中，所述包具有1英寸至5英寸的长度。在一些实施方案中，所述包具有1.5英寸至3英寸的长度。在一些实施方案中，产品包含0.5g至3g的组合物。在一些实施方案中，产品包含0.75g至1.5g的组合物。

[0073] 一些实施方案提供了可摄取组合物，其包含可摄取接受的成分和一种或多种具有式(I)的结构的化合物：

[0074] 

或其盐。

(I)，

[0075] 在一些实施方案中，组合物中的化合物的浓度大于100ppm。在一些实施方案中，化合物的浓度大于300ppm。在一些实施方案中，化合物的浓度大于500ppm。在一些实施方案中，化合物的浓度大于800ppm。

[0076] 在一些实施方案中，化合物的浓度为300ppm至2000ppm。在一些实施方案中，化合物的浓度为300ppm至1500ppm。在一些实施方案中，化合物的浓度为800ppm至1500ppm。

[0077] 在一些实施方案中，可摄取接受的成分包含蔬菜汁、水果汁、啤酒或红酒。在一些实施方案中，可摄取接受的成分包含酸。在一些实施方案中，所述酸为柠檬酸或磷酸。

[0078] 在一些实施方案中，可摄取接受的成分包含苦味剂。

[0079] 在一些实施方案中，可摄取接受的成分包含着色剂。

[0080] 在一些实施方案中，可摄取接受的成分包含防腐剂。

[0081] 在一些实施方案中，可摄取接受的成分包含功能性成分。

[0082] 在一些实施方案中，可摄取接受的成分包含缓冲液。

[0083] 在一些实施方案中，可摄取接受的成分包含天然调味料。在一些实施方案中，可摄

取接受的成分包含人造调味料。

[0084] 在一些实施方案中，可摄取接受的成分包含食品添加剂。

[0085] 在一些实施方案中，可摄取接受的成分包含酸味调味剂。

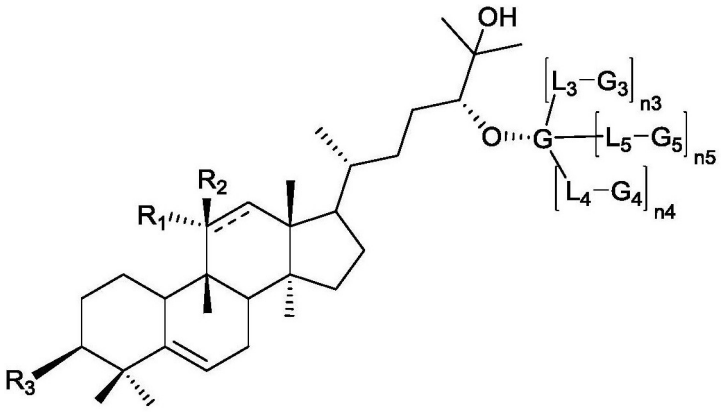
[0086] 在一些实施方案中，可摄取接受的成分包含一种或多种脂肪、油或乳剂。

[0087] 在一些实施方案中，可摄取接受的成分包含面粉或蔬菜粉末。

[0088] 在一些实施方案中，组合物为食品或饮料产品。在一些实施方案中，食品或饮料产品选自可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料以及冰沙。在一些实施方案中，食品或饮料产品为软饮料。

[0089] 在一些实施方案中，组合物具有小于或等于7的pH。在一些实施方案中，组合物具有小于7的pH。在一些实施方案中，组合物具有大于或等于7的pH。在一些实施方案中，组合物具有大于7的pH。在一些实施方案中，组合物具有6至10的pH。在一些实施方案中，组合物具有6至9的pH。在一些实施方案中，组合物具有6至8的pH。在一些实施方案中，组合物具有6至7的pH。在一些实施方案中，组合物具有1至7的pH。在一些实施方案中，组合物具有1至6的pH。在一些实施方案中，组合物具有1至5的pH。在一些实施方案中，组合物具有1至4的pH。在一些实施方案中，组合物具有1至3的pH。在一些实施方案中，组合物具有约2的pH。在一些实施方案中，组合物具有约2.5的pH。在一些实施方案中，组合物具有约1.5的pH。在一些实施方案中，组合物具有约3的pH。在一些实施方案中，组合物具有约3.5的pH。在一些实施方案中，组合物具有约4的pH。在一些实施方案中，组合物具有约4.5的pH。在一些实施方案中，组合物具有约5的pH。

[0090] 一些实施方案提供了增强可摄取组合物的甜味的方法，包括使可摄取组合物与至少一种式(I)的化合物结合：

[0091] 

或其盐。

(I)，

[0092] 一些实施方案提供了增强食品或饮料产品的甜味的方法，包括将组合物添加至食品或饮料产品，由此增强食品或饮料产品的甜味。

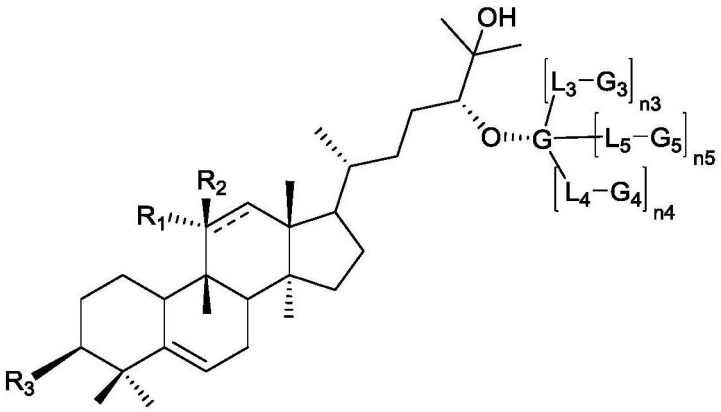
[0093] 一些实施方案提供了制备食品或饮料产品的方法，包括使组合物与一种或多种可摄取接受的成分结合。

[0094] 一些实施方案提供了制备食品或饮料产品的方法，包括结合第一多种可摄取接受的成分以形成中间体混合物；并且将一定剂量的组合物分配至中间体混合物中。

[0095] 在一些实施方案中，所述方法还包括，在分配所述剂量的组合物之后，添加一种或多种另外的可摄取接受的成分。

[0096] 在一些实施方案中，所述方法还包括，将可摄取接受的成分与组合物混合。

[0097] 一些实施方案提供了增味浓缩物，其包含增味剂和具有式(I)的结构的化合物：

[0098] 

或其盐。

(I)，

[0099] 在一些实施方案中，增味剂为人造增味成分。在一些实施方案中，增味剂为天然增味成分。

[0100] 在一些实施方案中，化合物的浓度大于0.1重量％。在一些实施方案中，化合物的浓度大于0.5重量％。在一些实施方案中，化合物的浓度大于1重量％。

[0101] 在一些实施方案中，浓缩物为液体。在一些实施方案中，浓缩物为溶液。在一些实施方案中，浓缩物为固体。

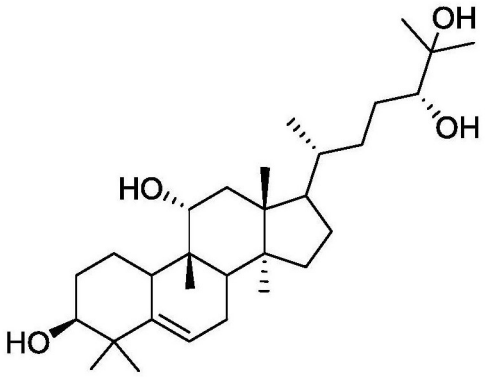
[0102] 在一些实施方案中，化合物以即用的食品或饮料产品中该化合物浓度的至少2倍的浓度存在。

[0103] 一些实施方案提供了制备食品或饮料产品的方法，包括将浓缩物与稀释剂结合。在一些实施方案中，稀释剂为水。在一些实施方案中，稀释剂为碳酸水。在一些实施方案中，稀释剂为注入氮的水。在一些实施方案中，稀释剂为乙醇水溶液。

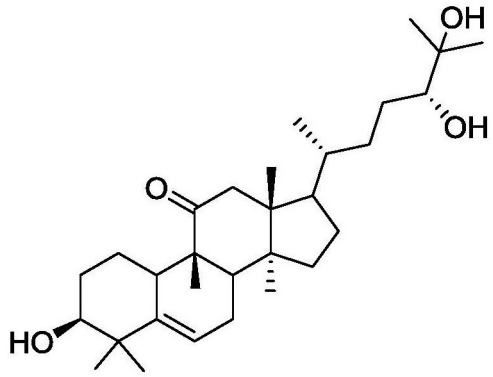
[0104] 在一些实施方案中，食品或饮料产品选自可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料和冰沙。

[0105] 在上述化合物、组合物、产品、方法或浓缩物的一些实施方案中，式(I)不选自：

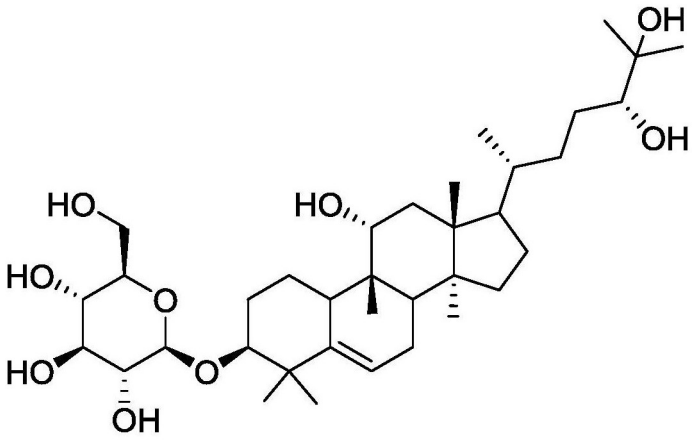
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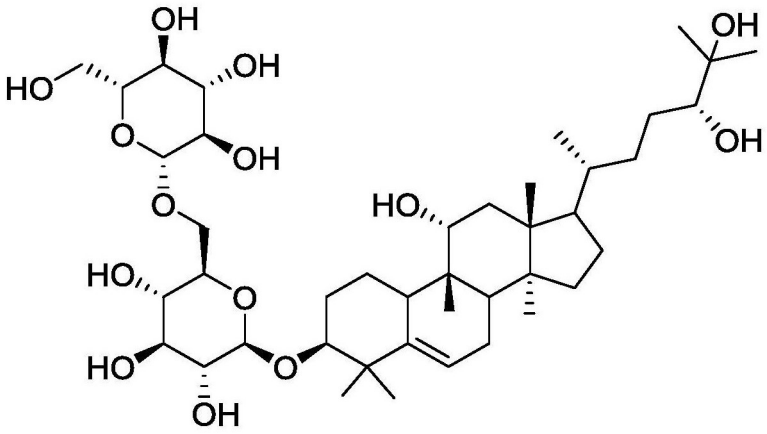
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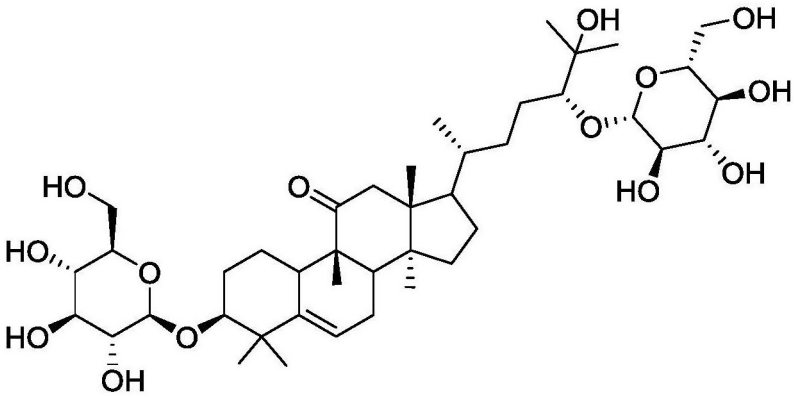

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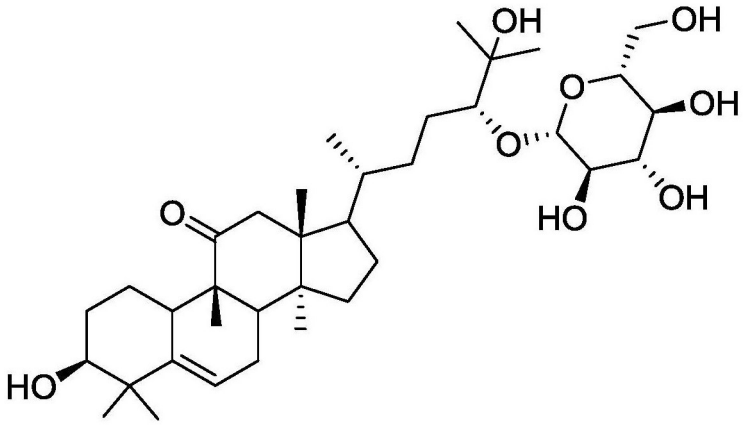

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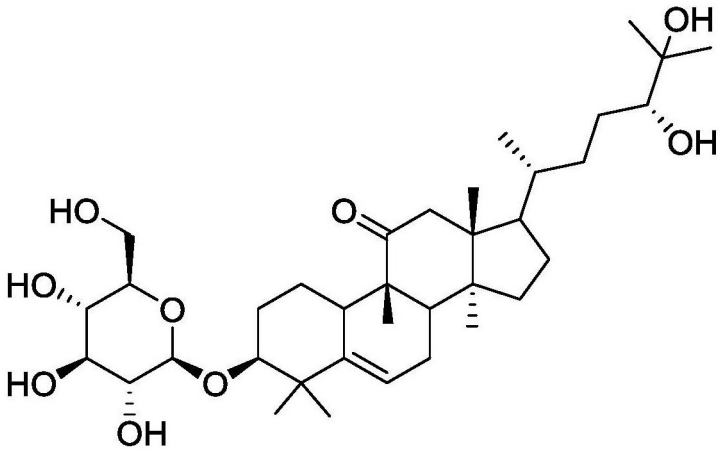
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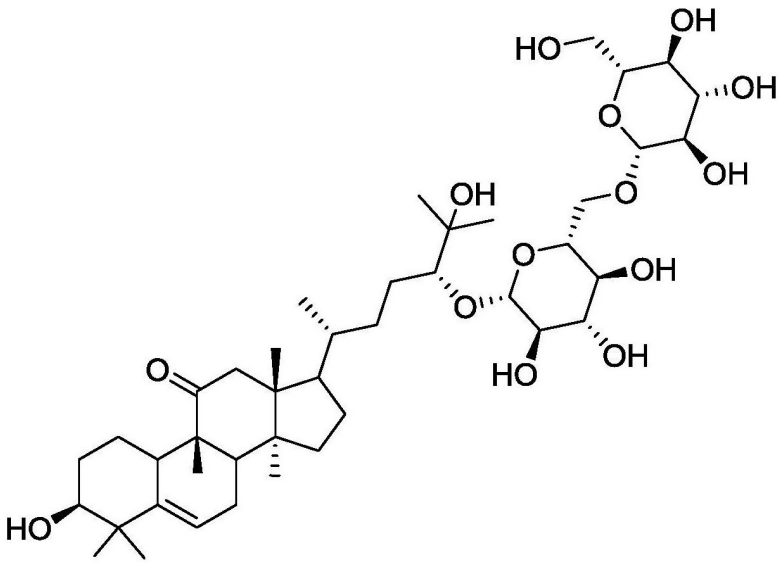

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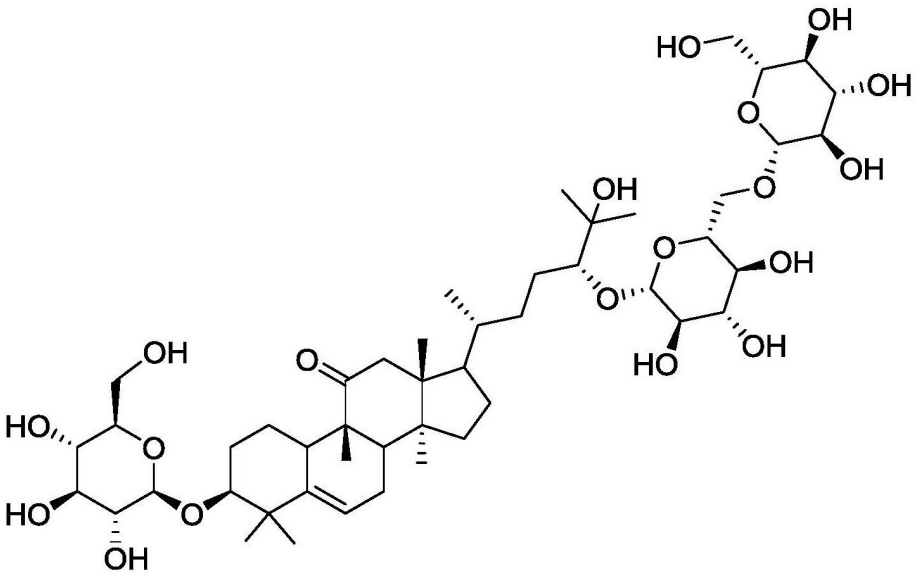

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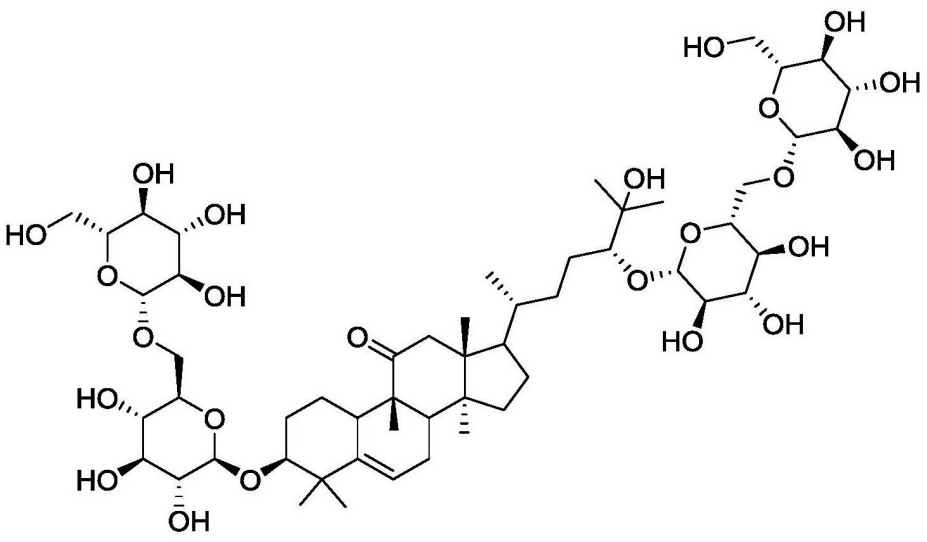
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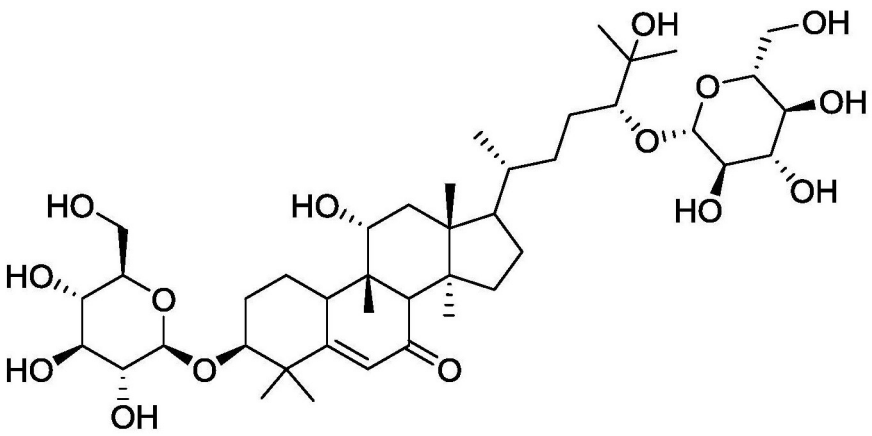


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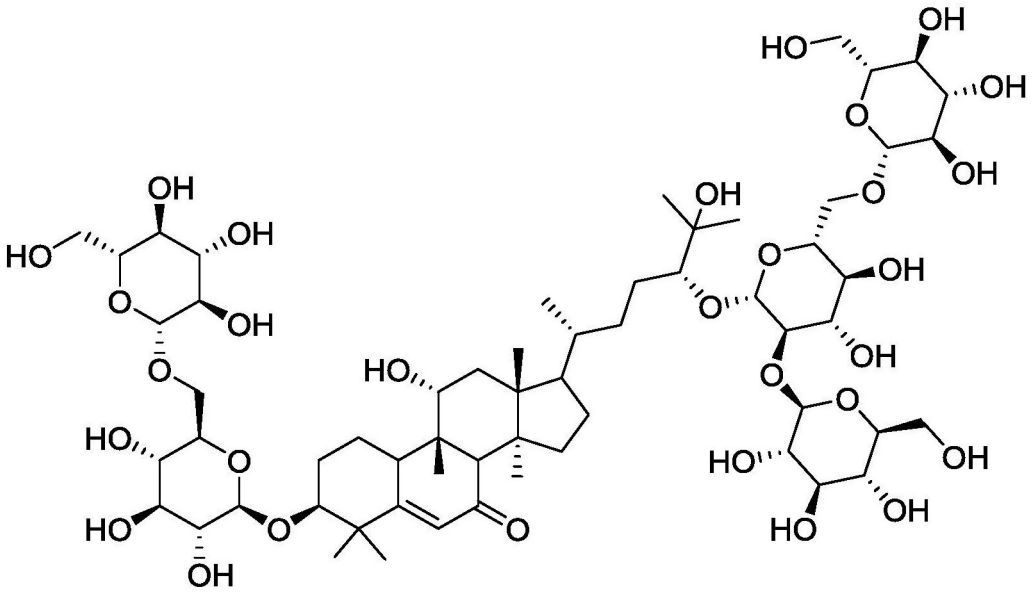


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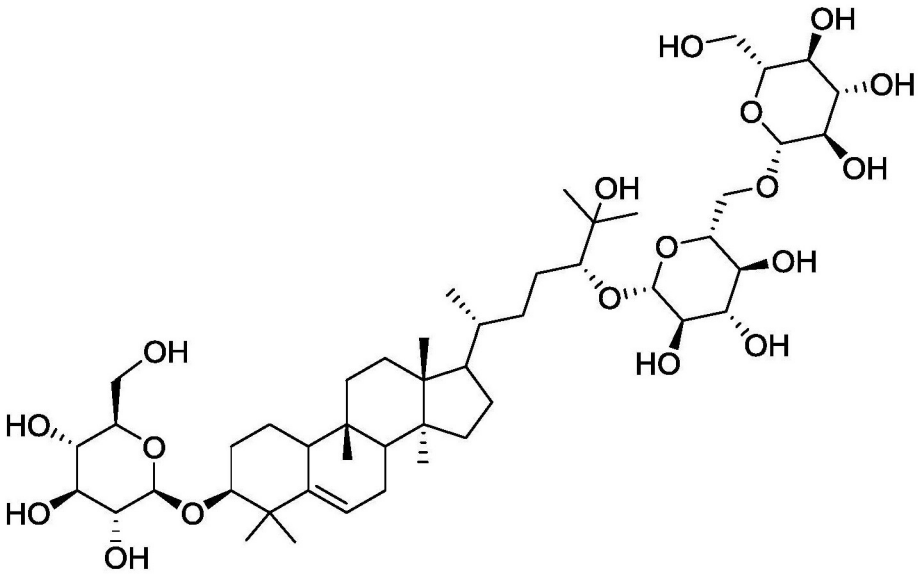
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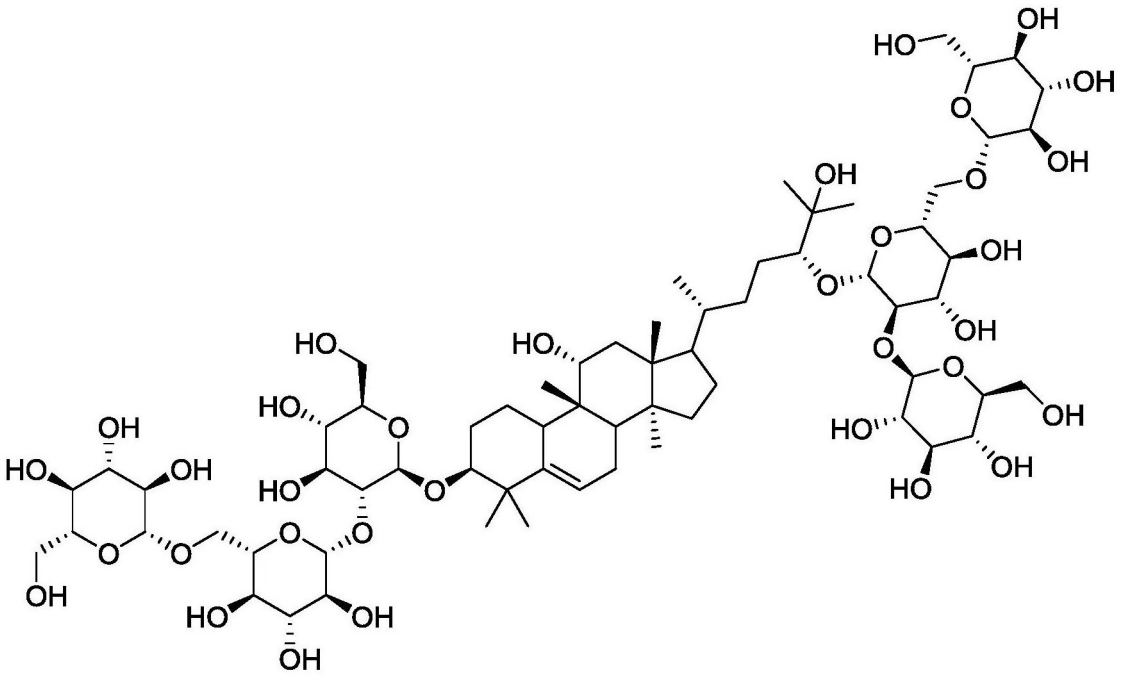


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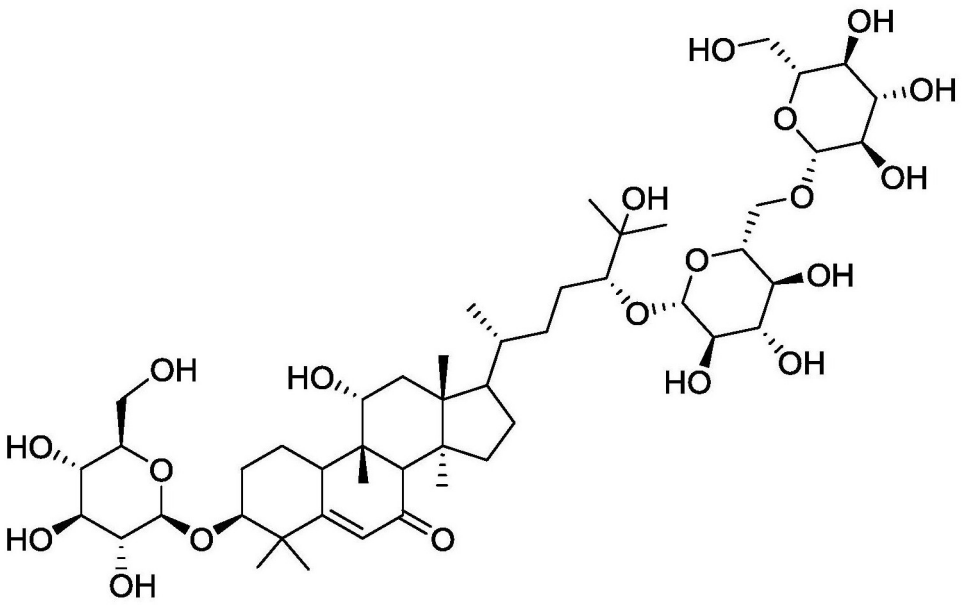


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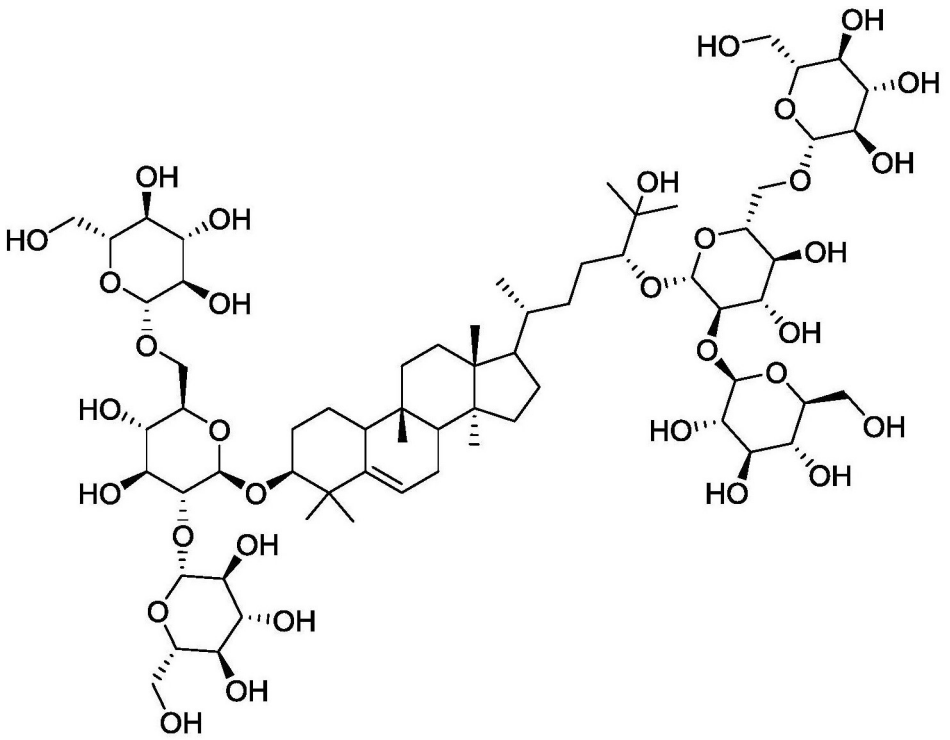


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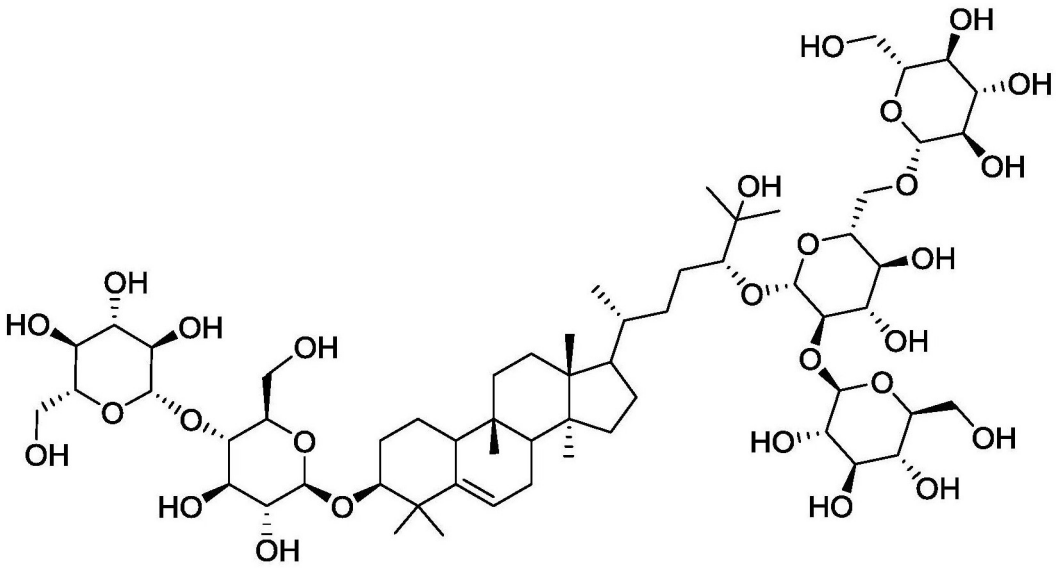


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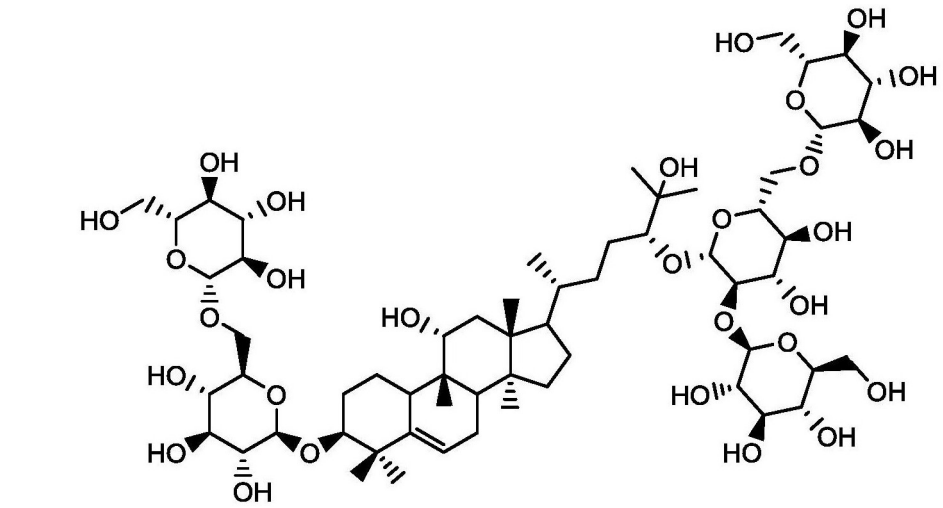


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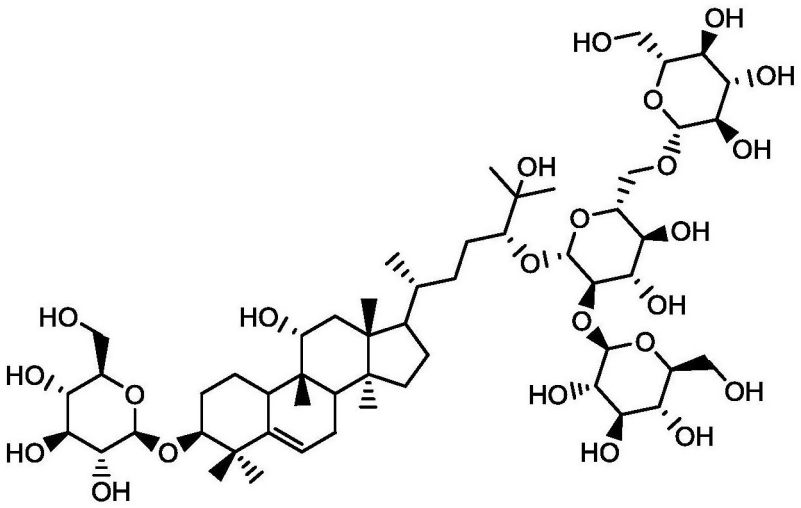


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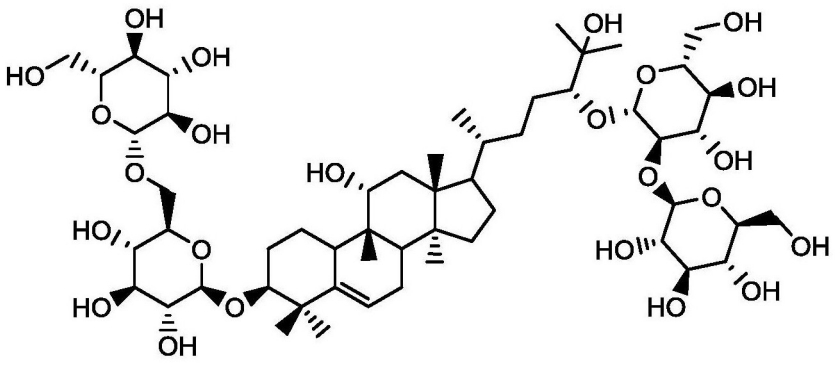
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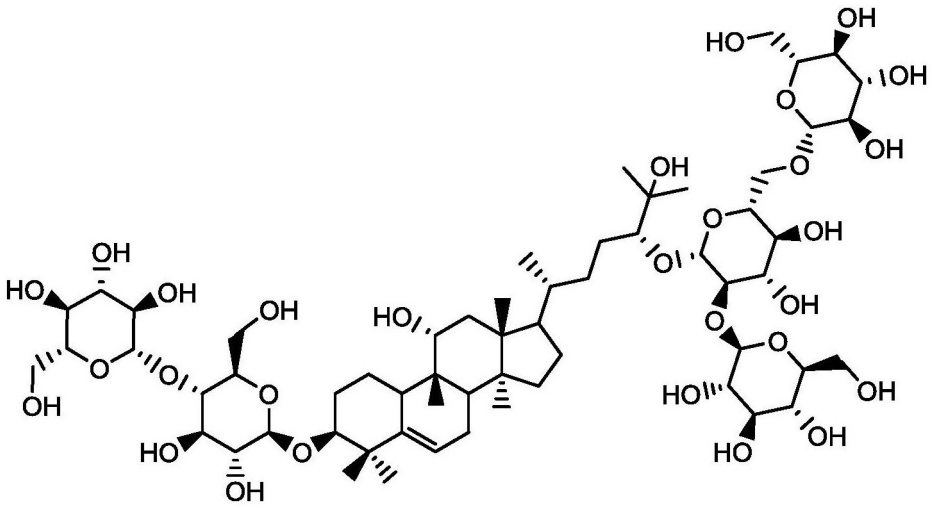


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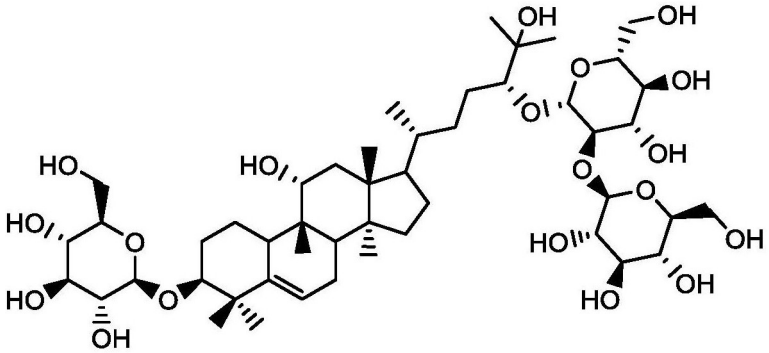


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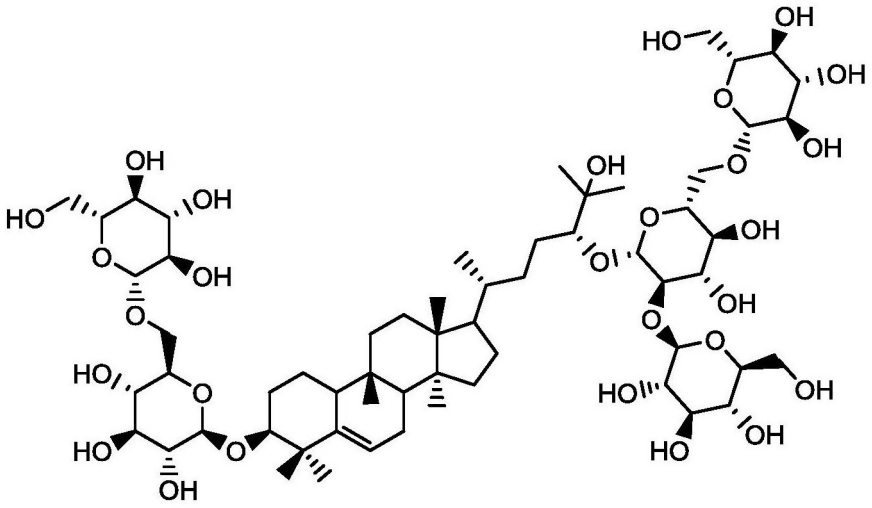
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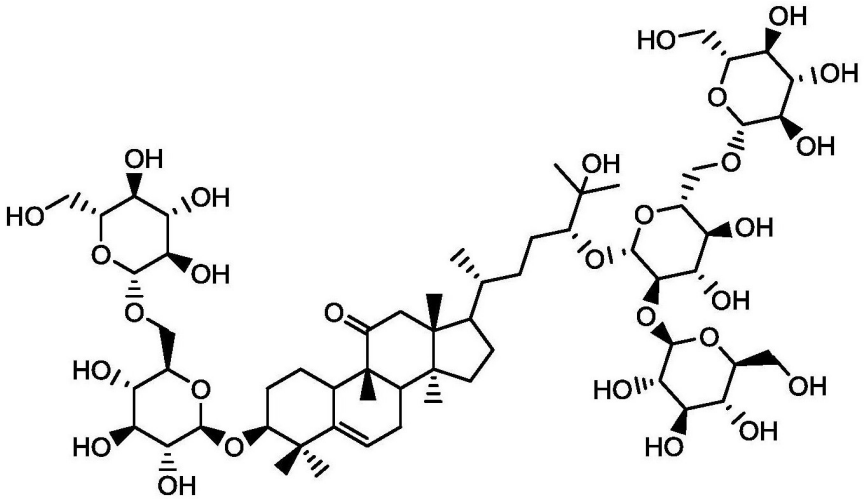


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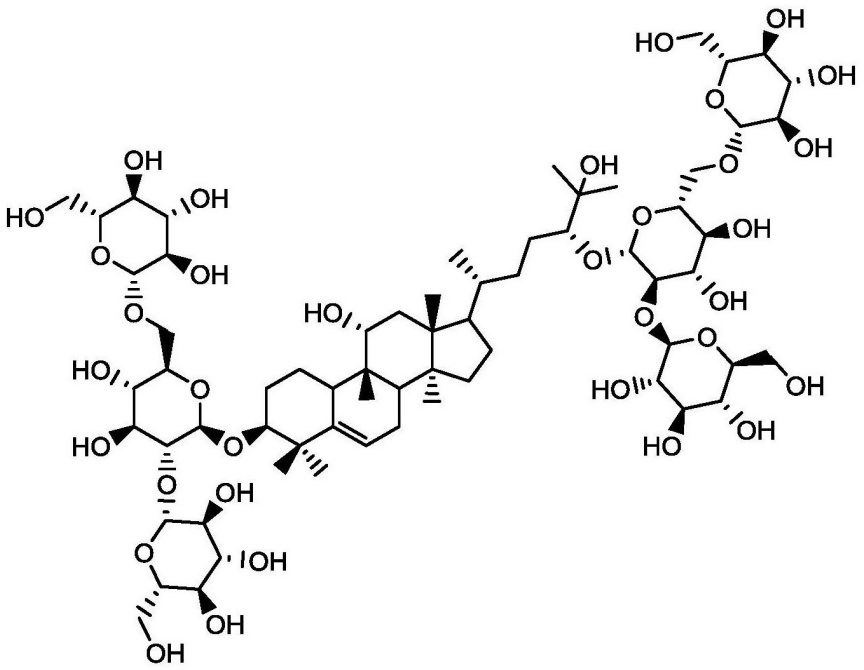


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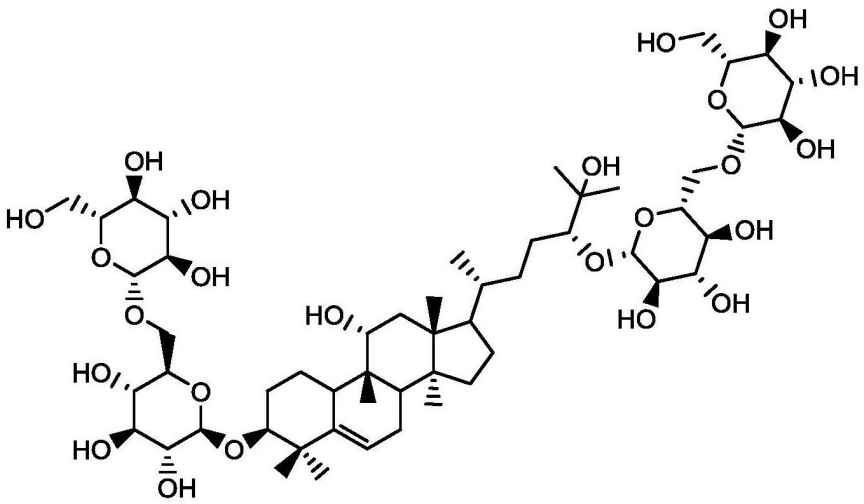
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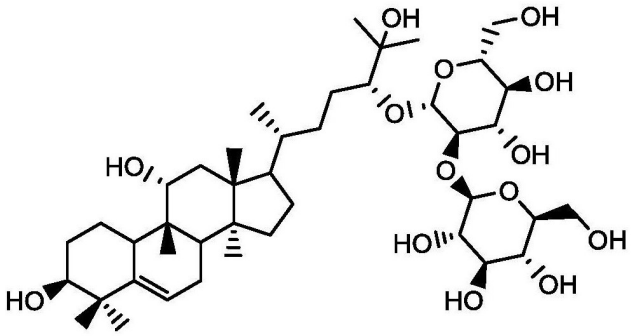


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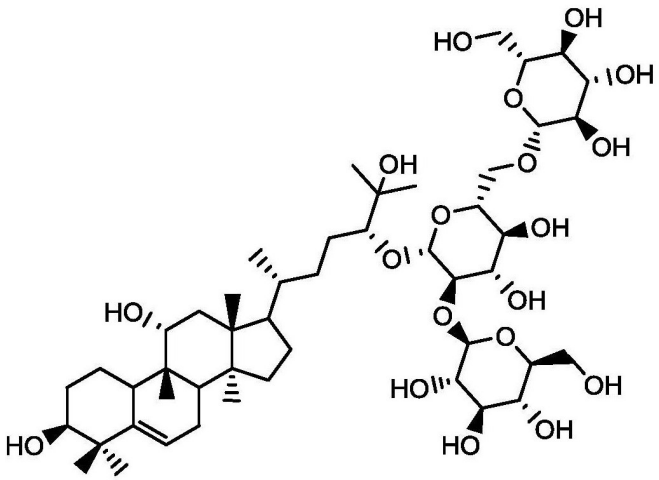


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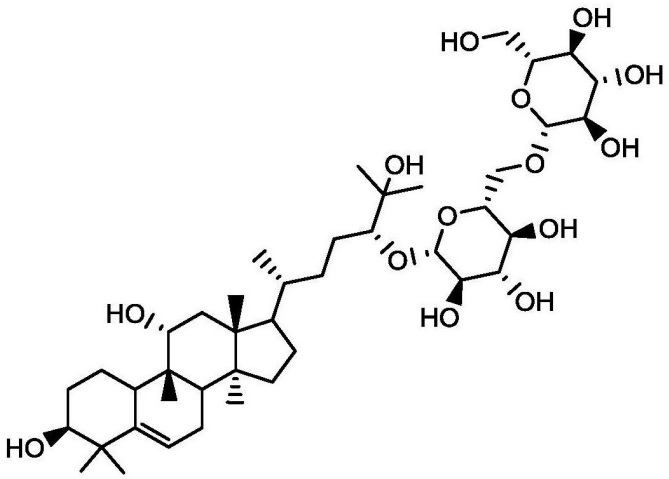
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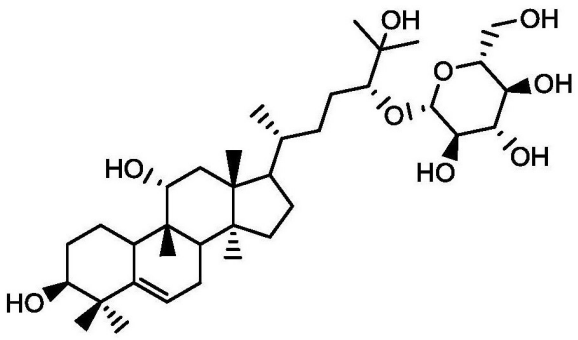
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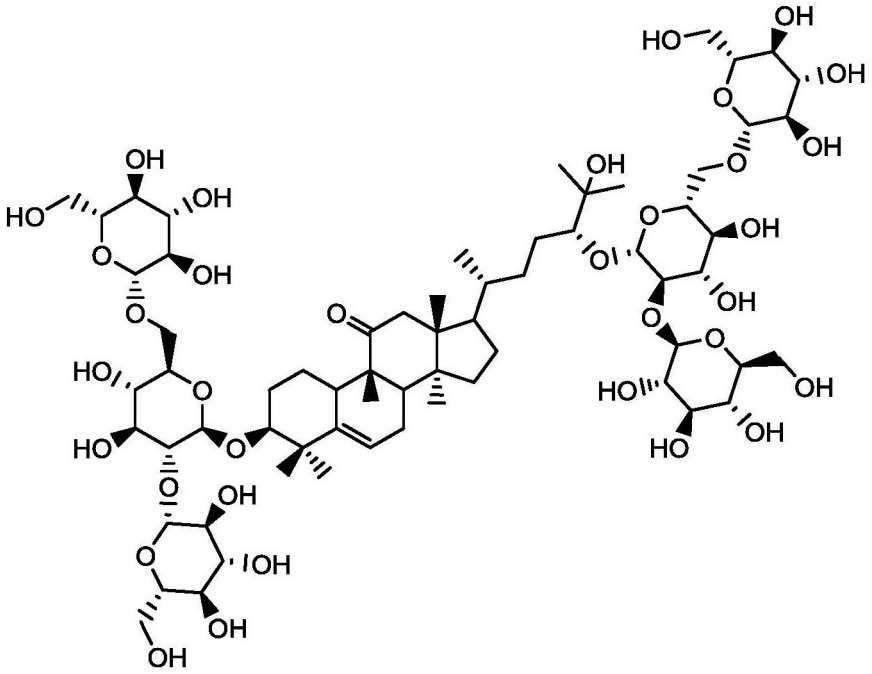


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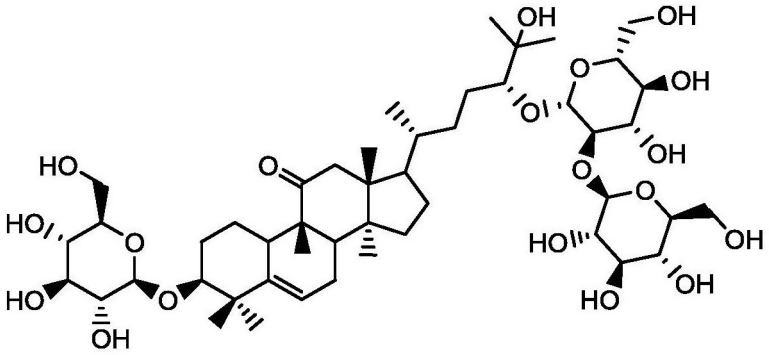


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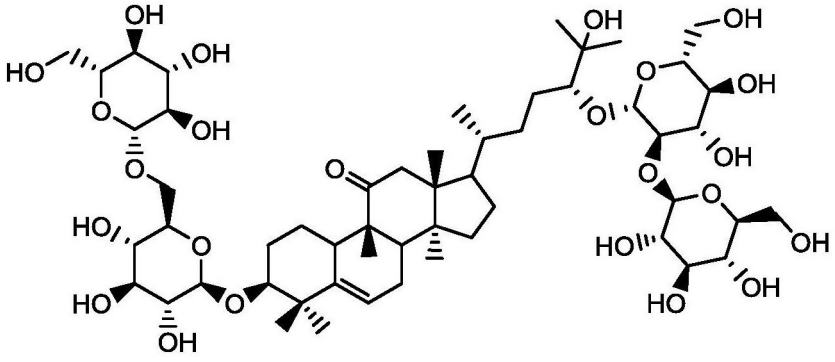
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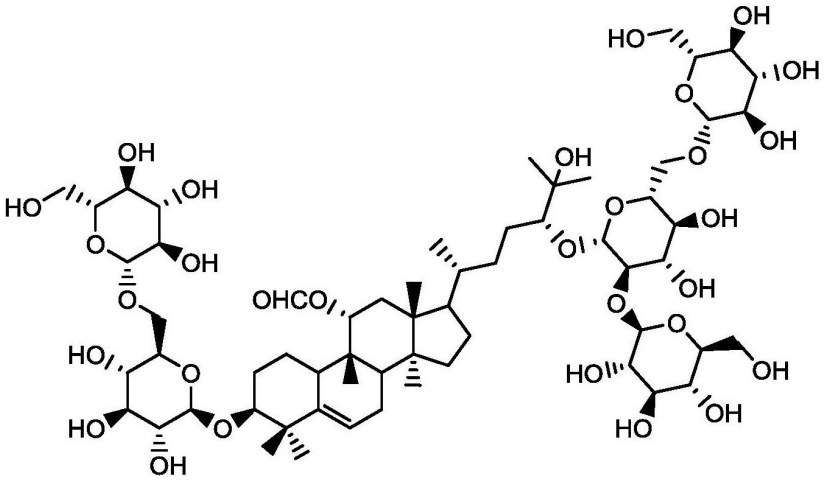
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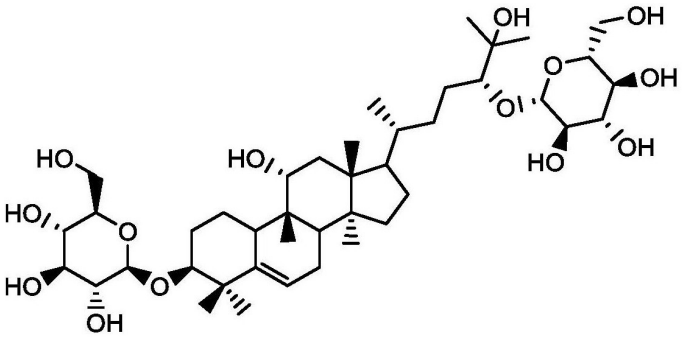
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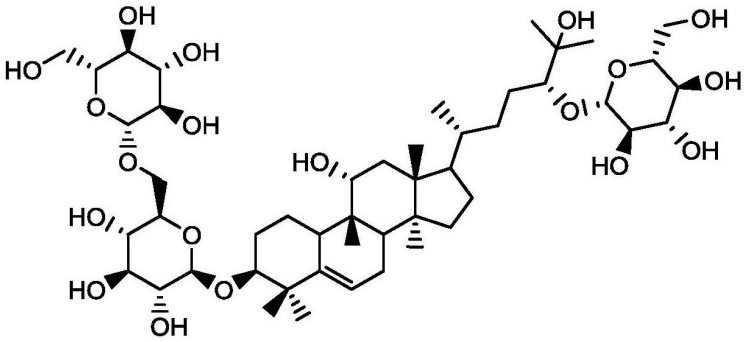


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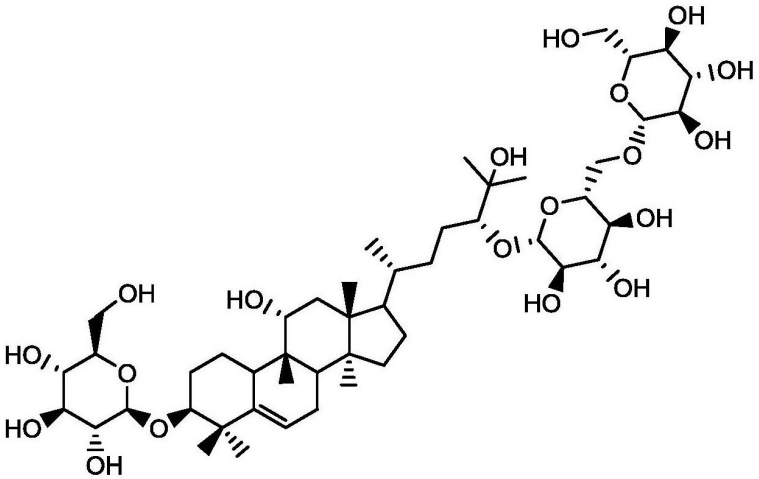


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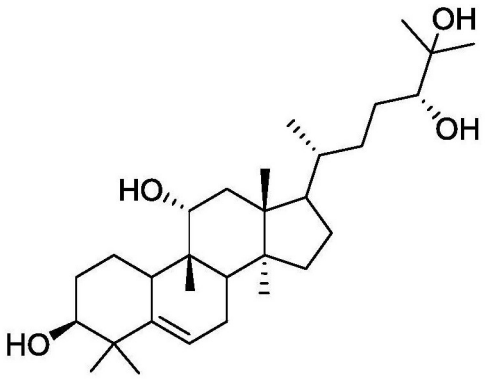
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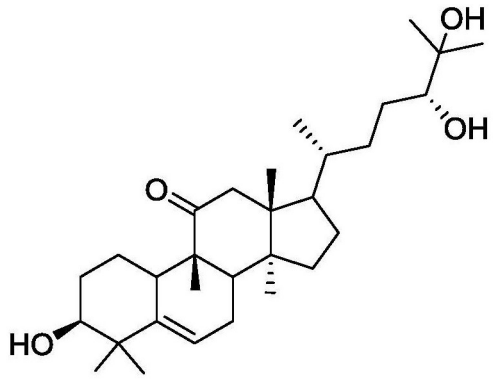
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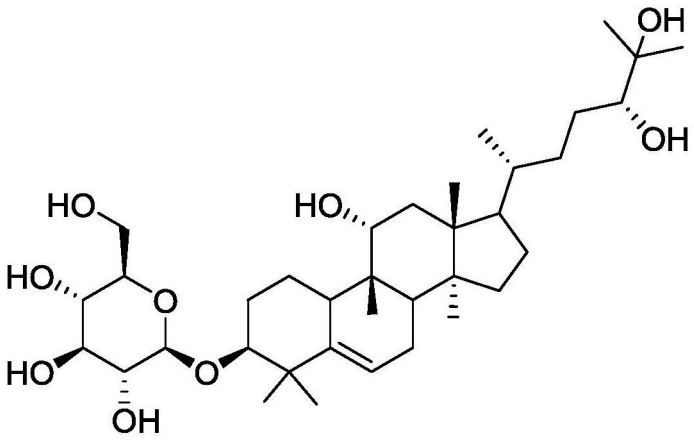
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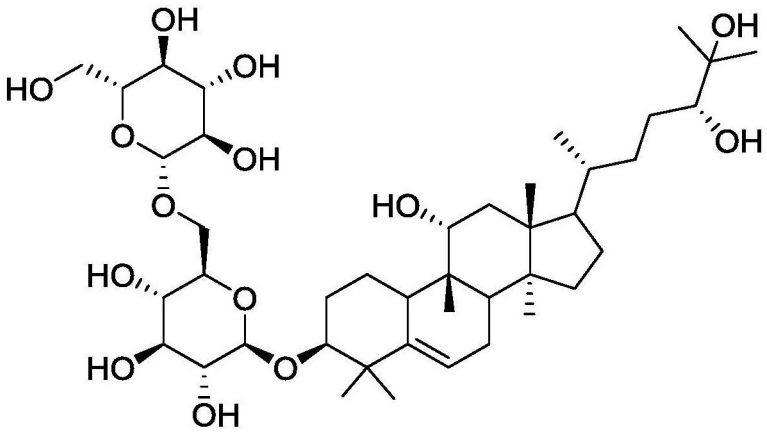
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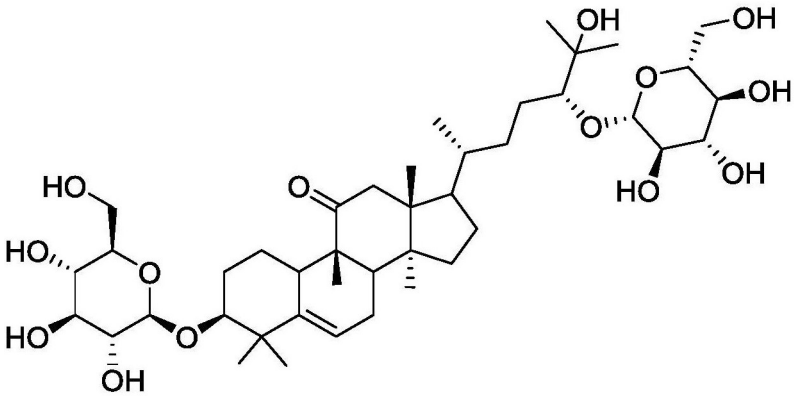

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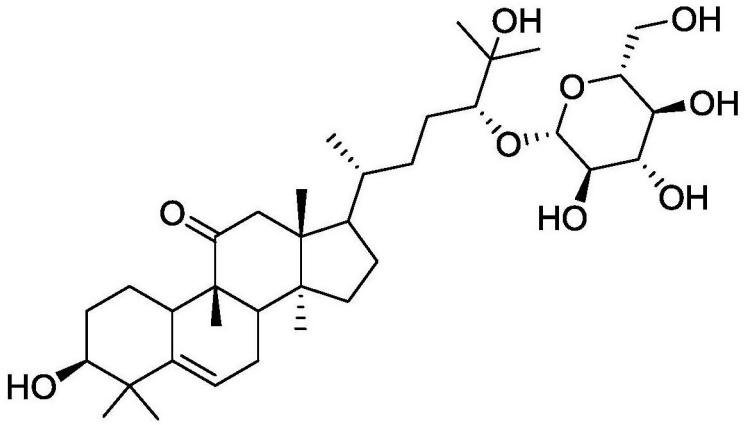

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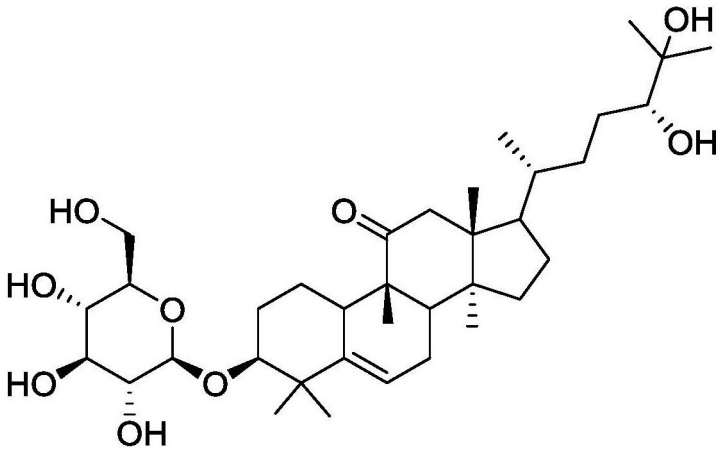
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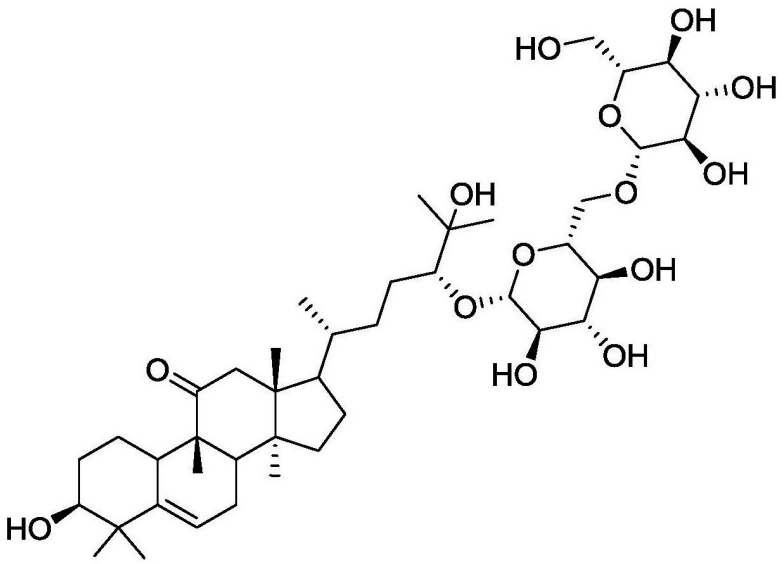


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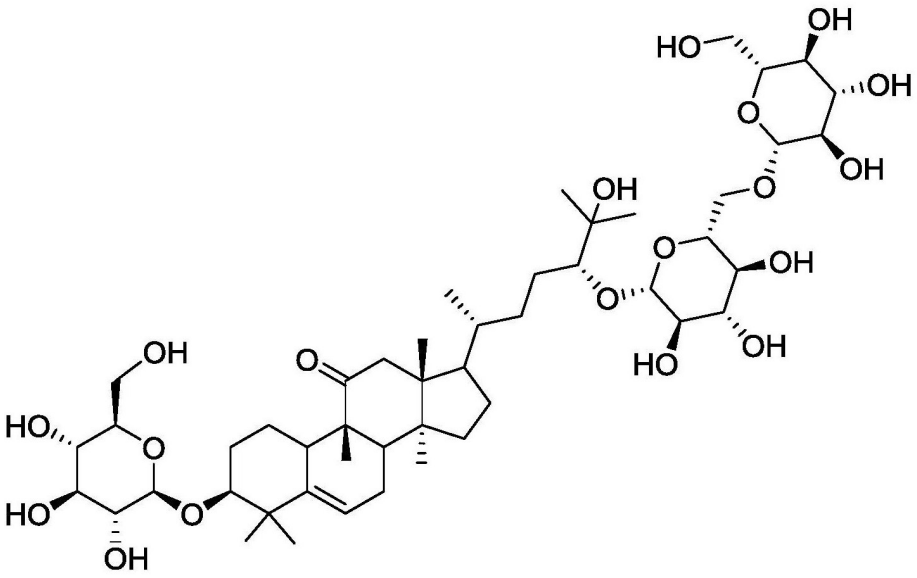


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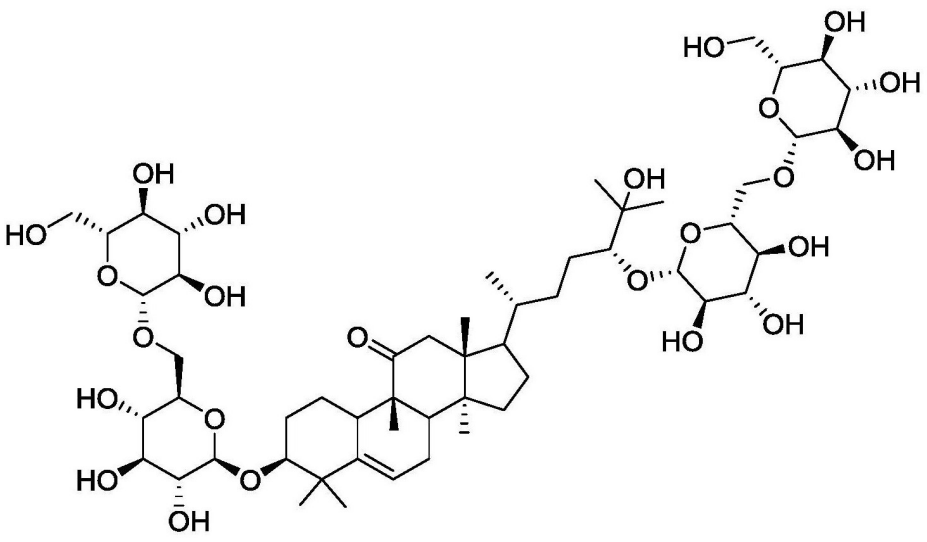
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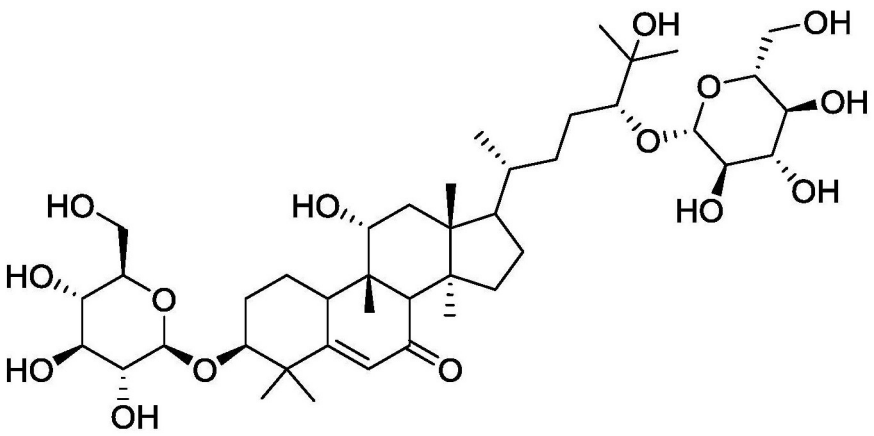


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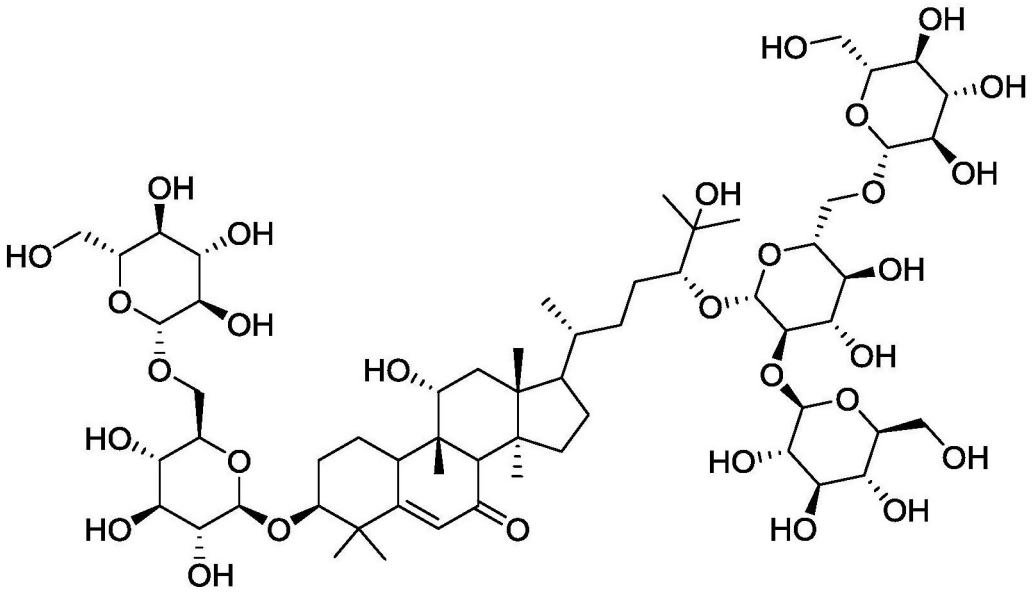


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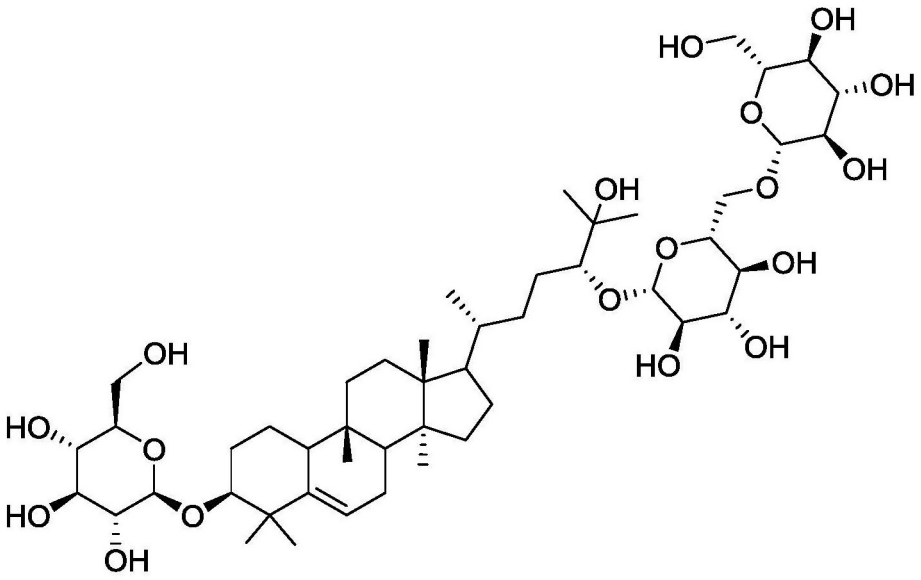
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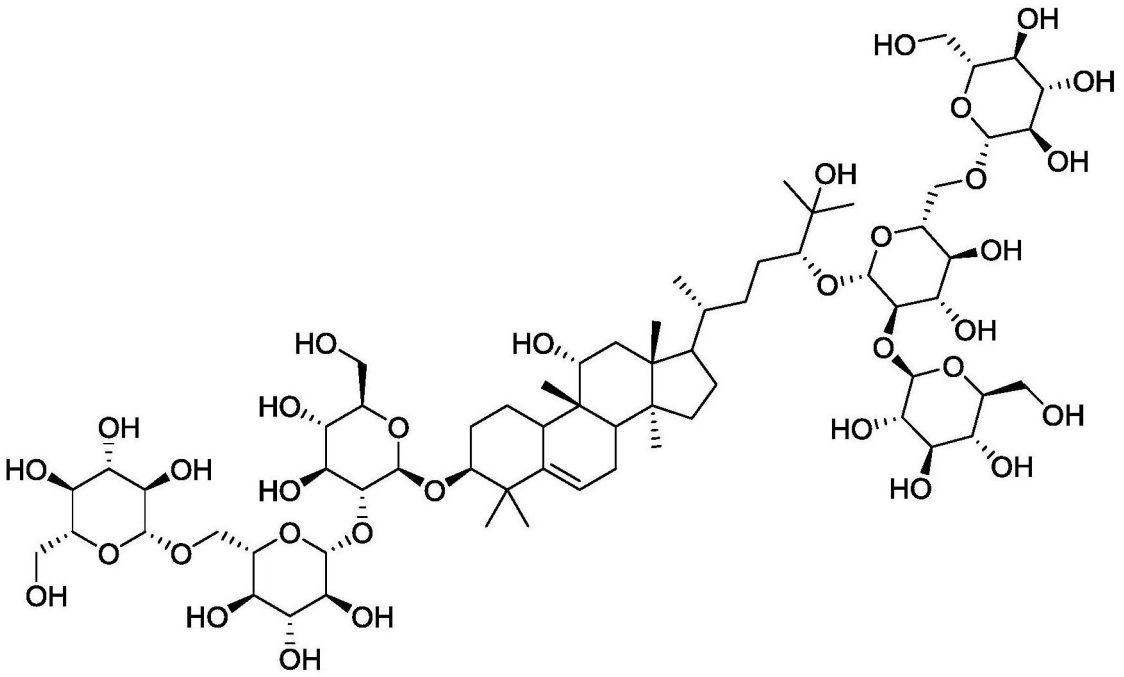


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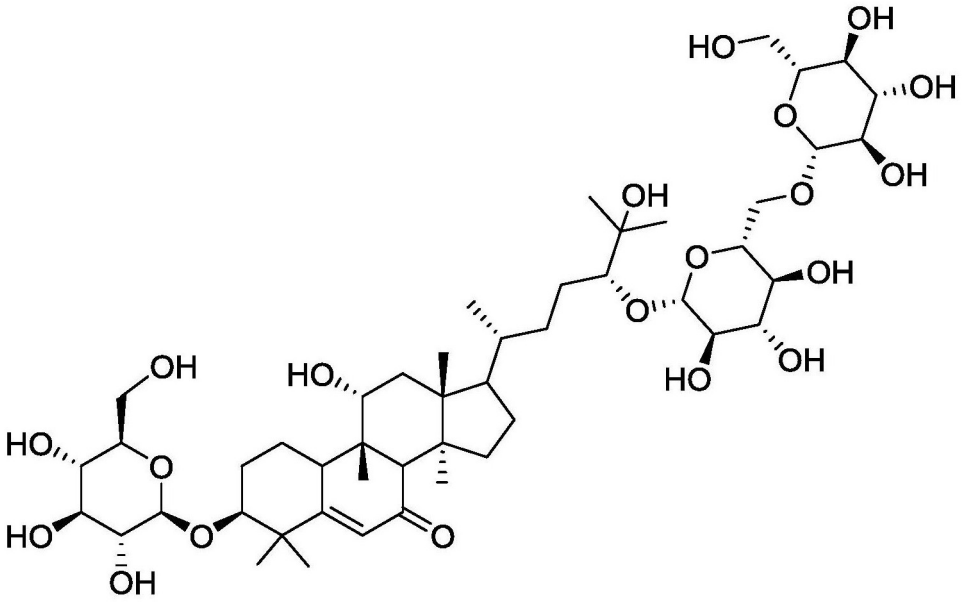


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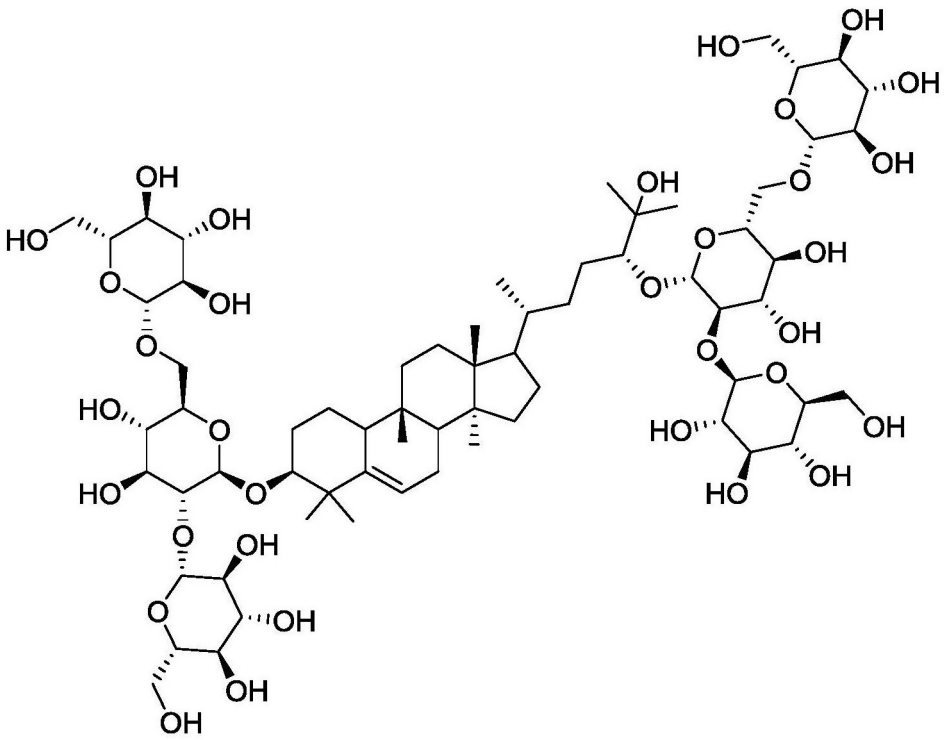


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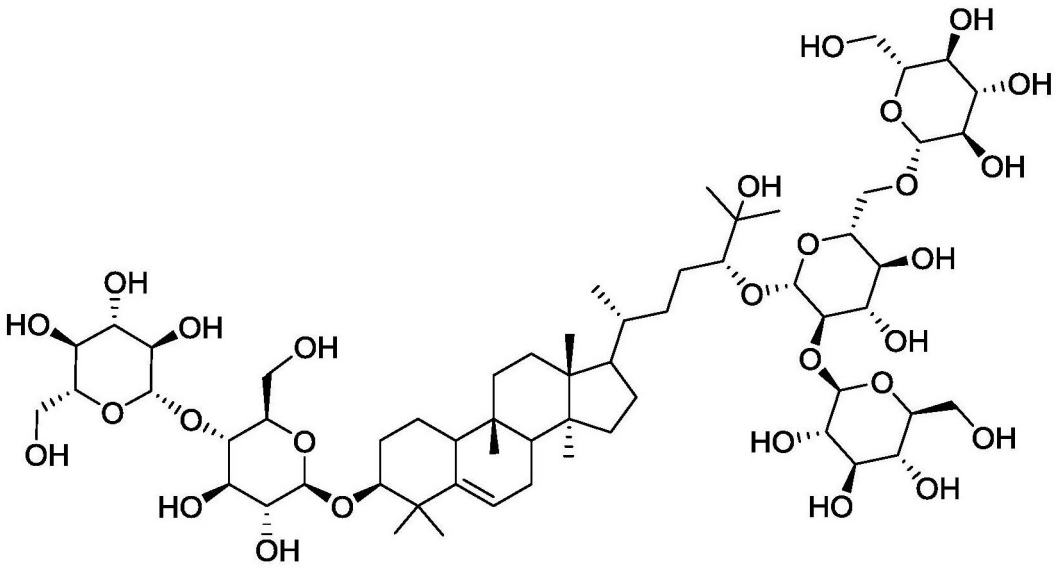


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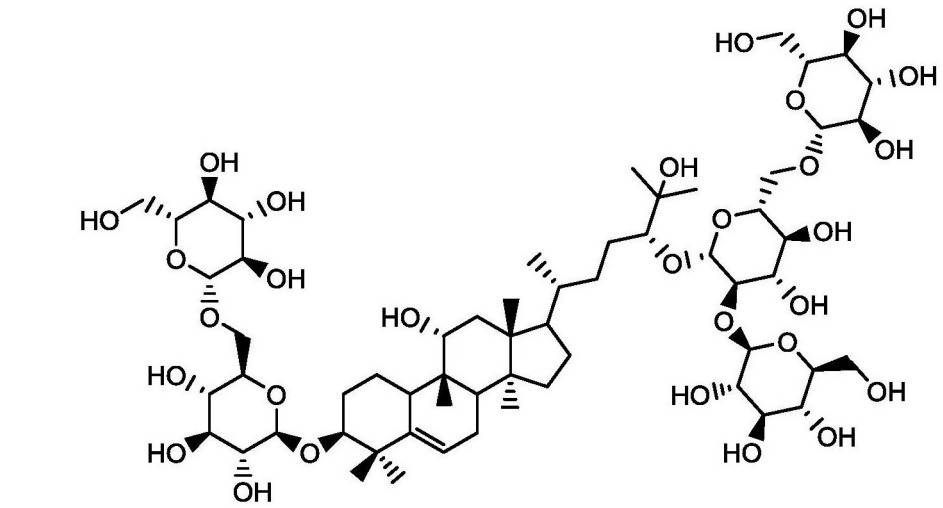


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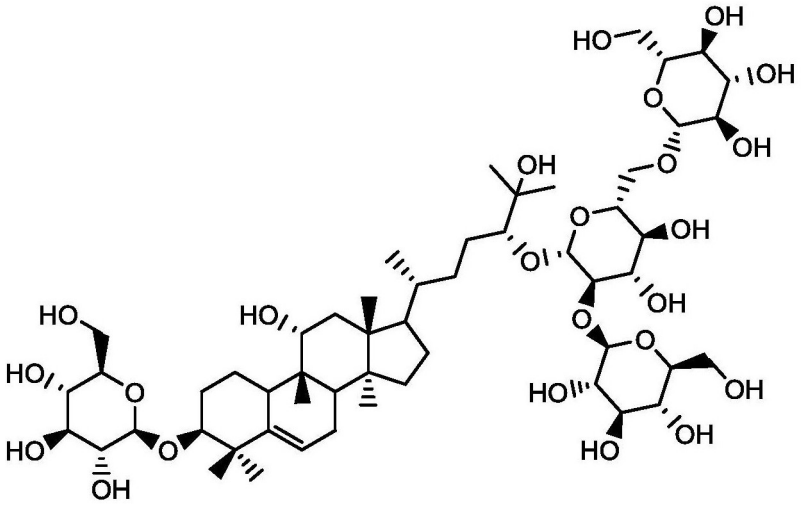


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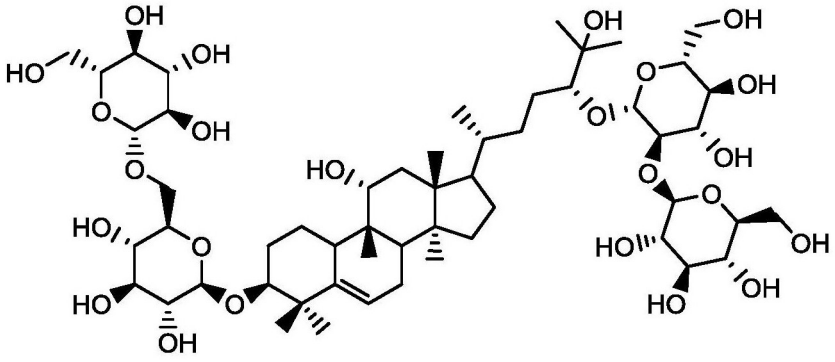
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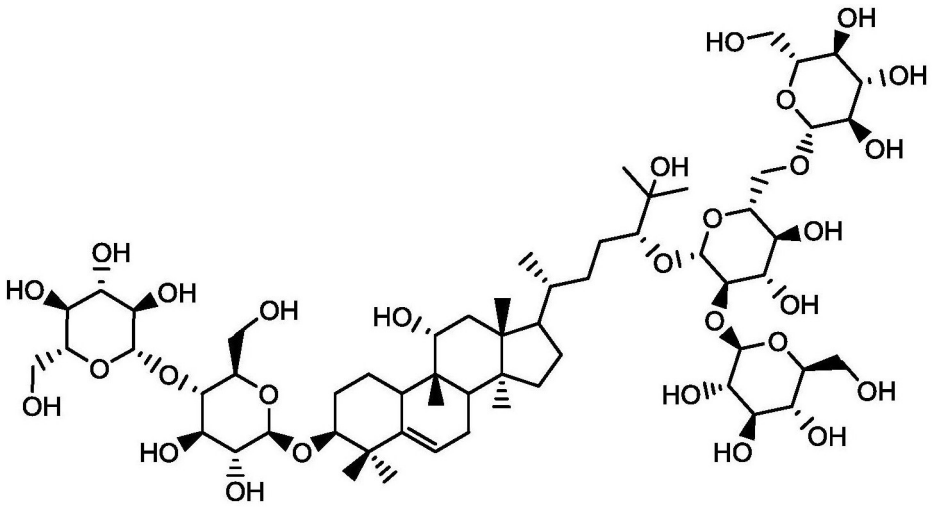


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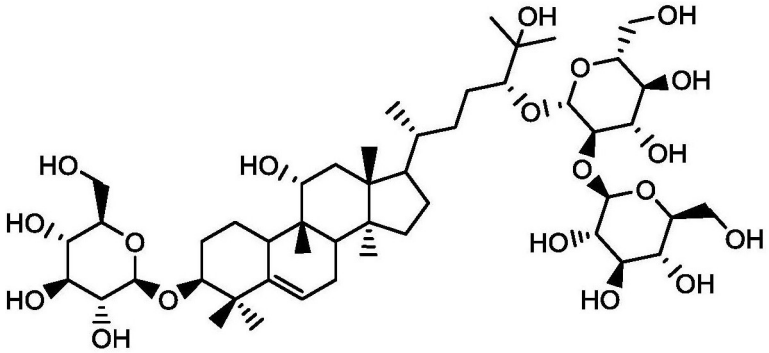


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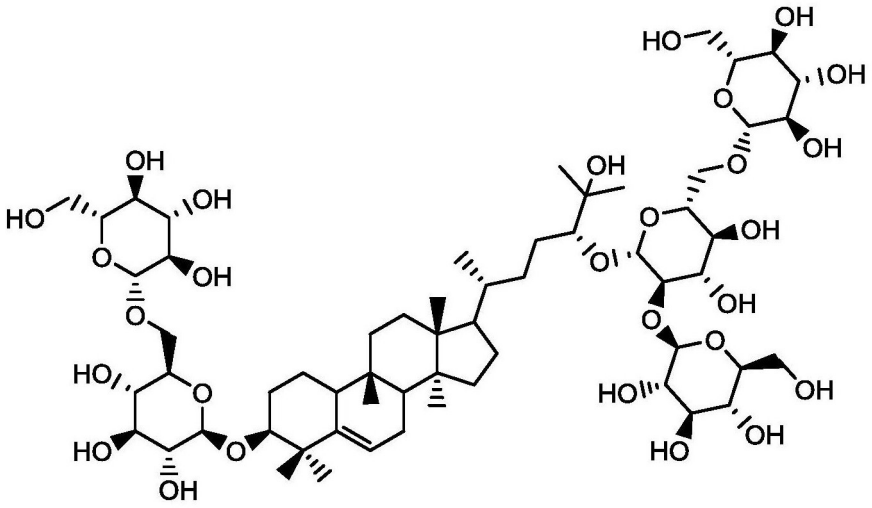
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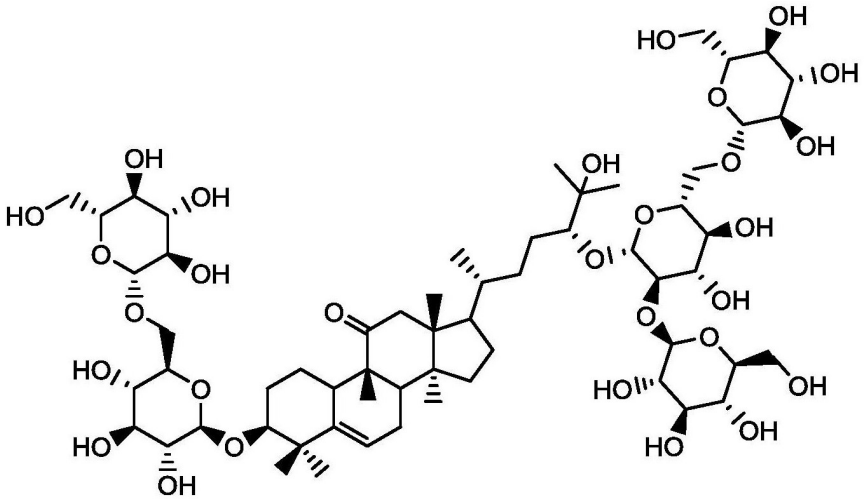


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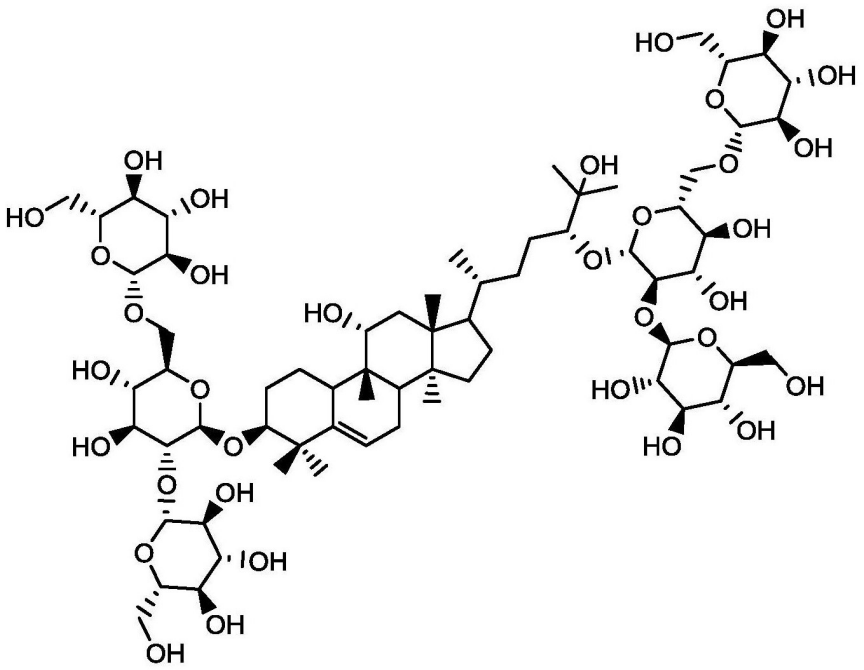


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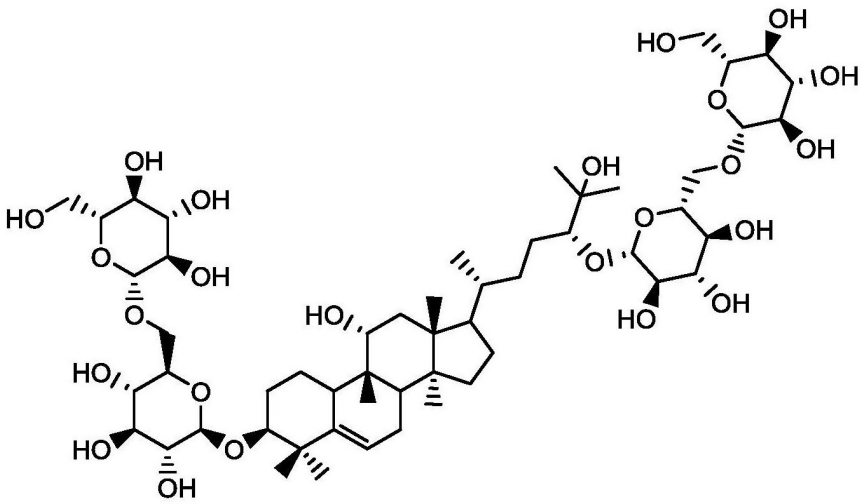
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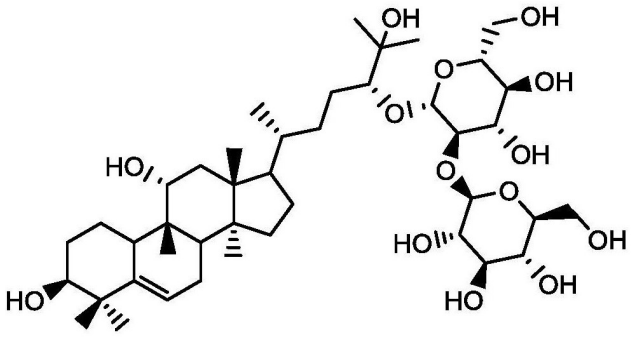


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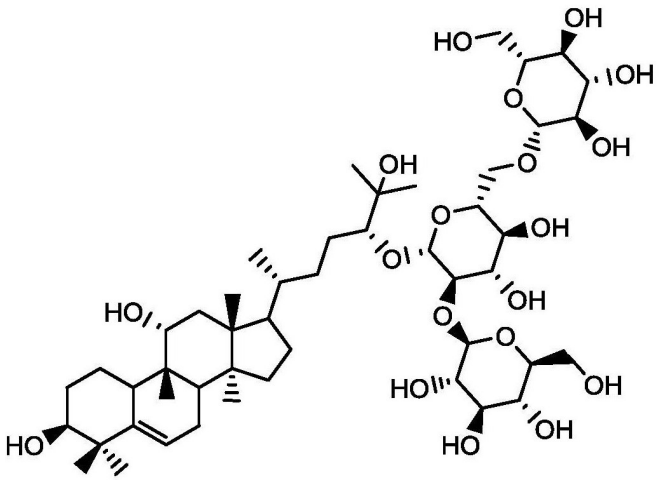


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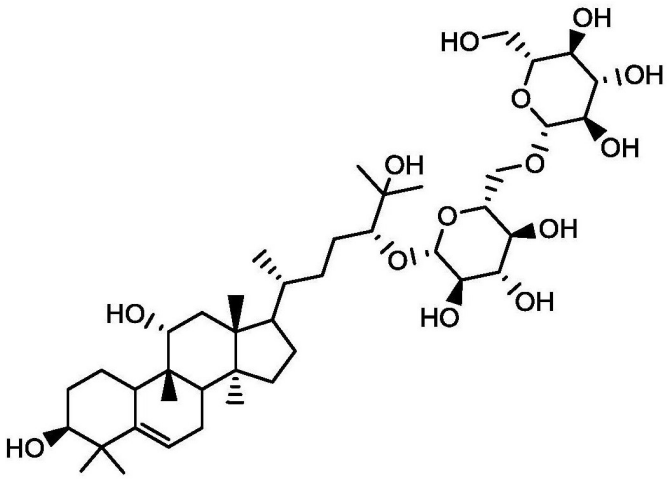
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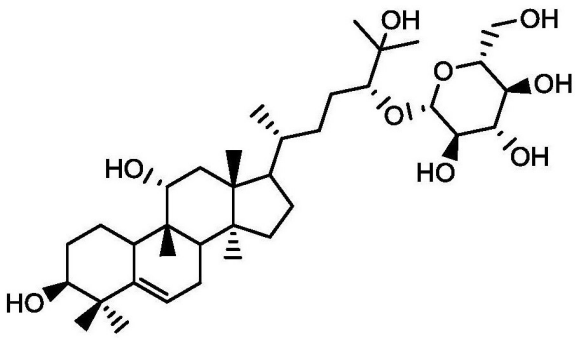
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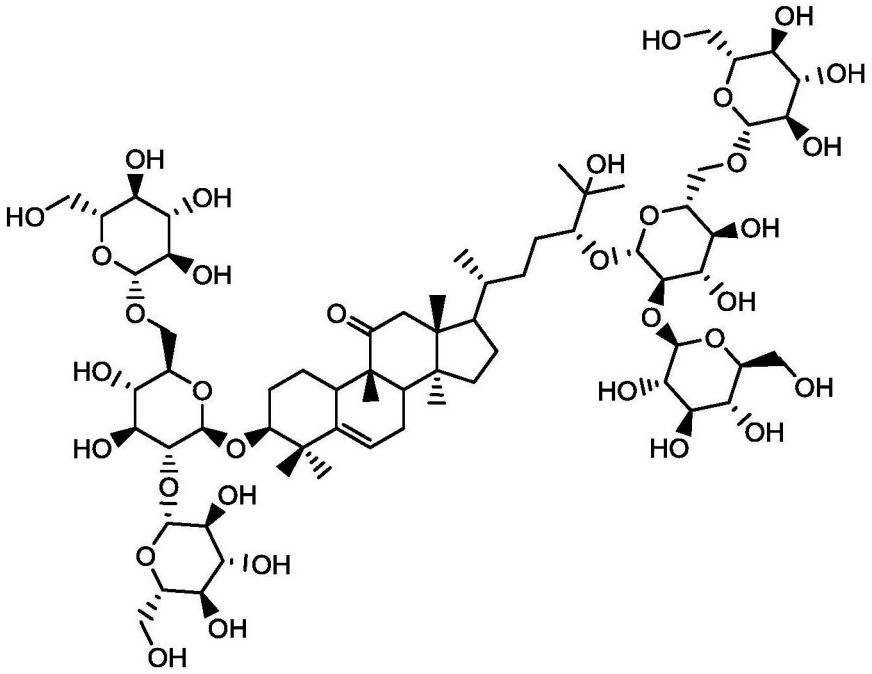


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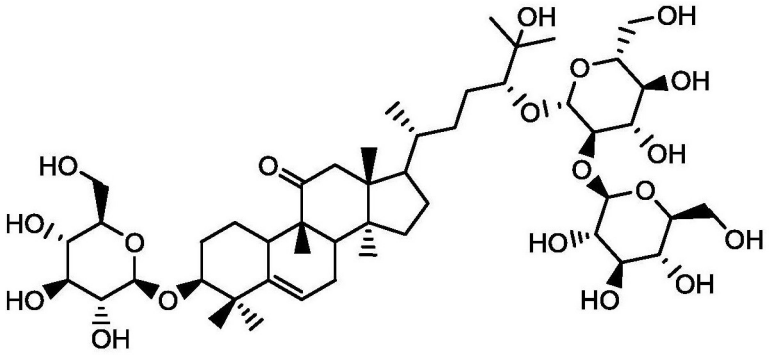


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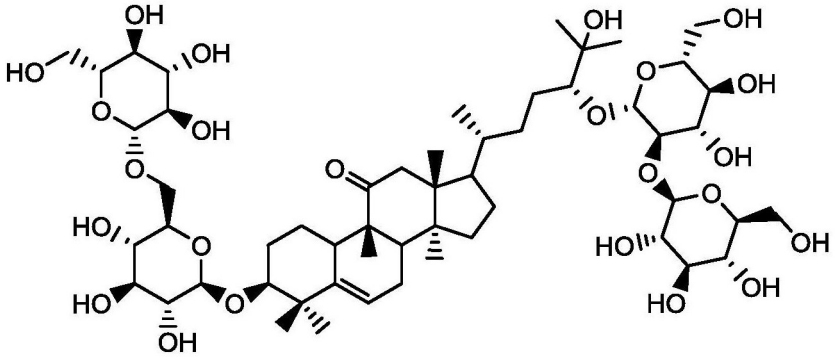
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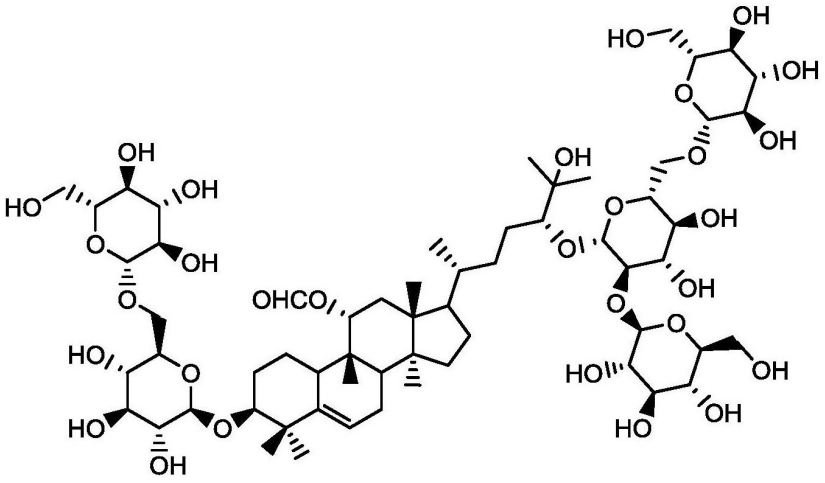
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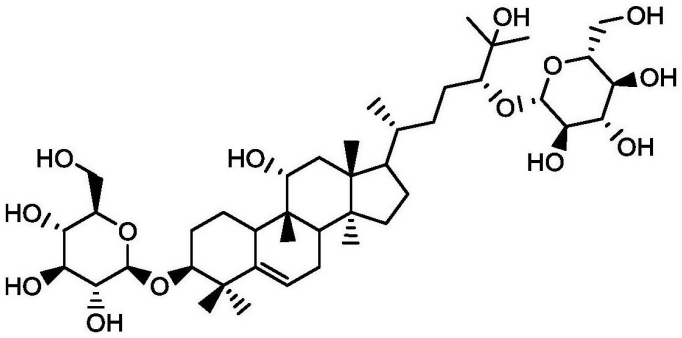
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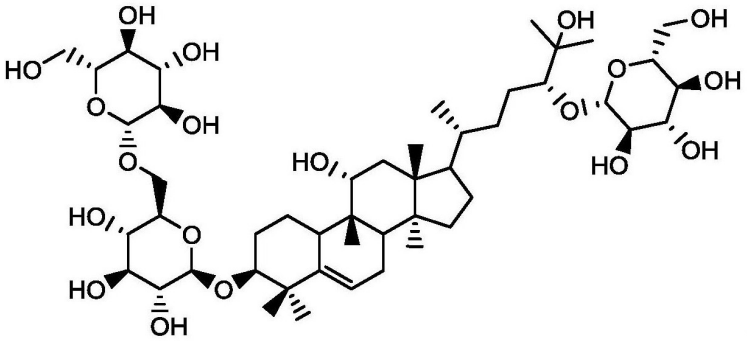


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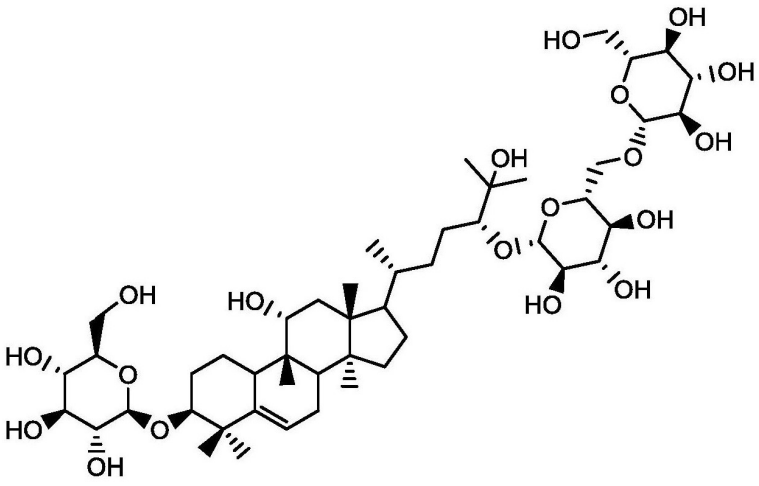


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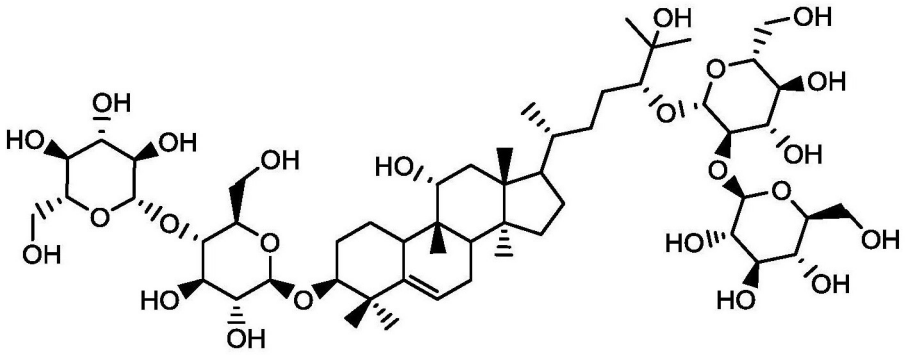


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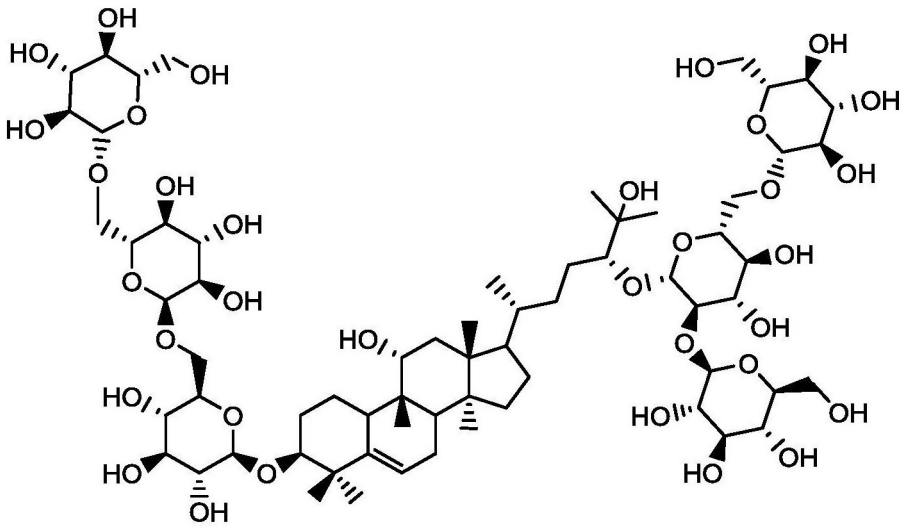


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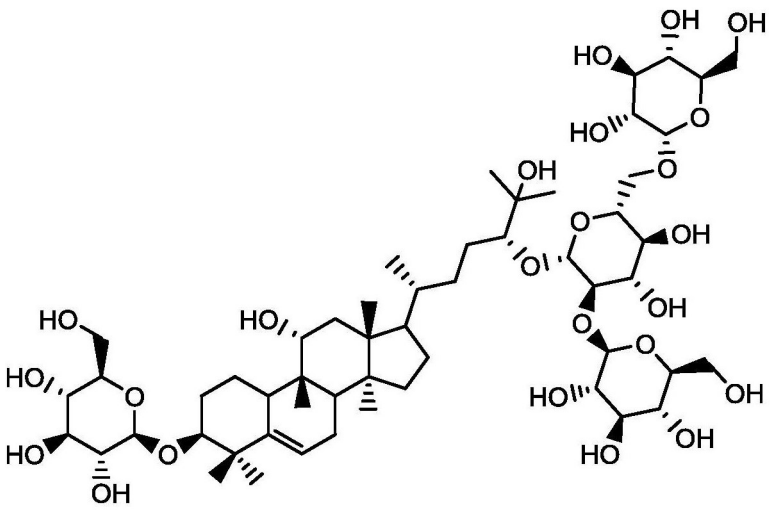
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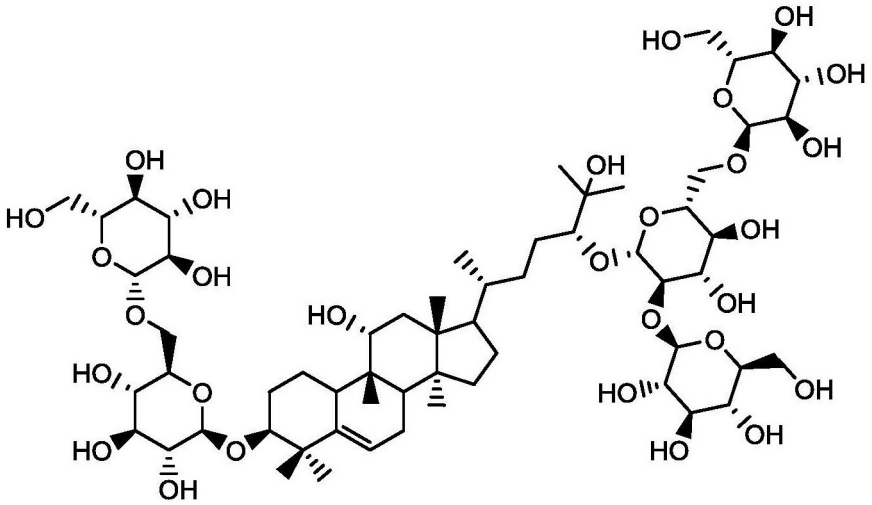


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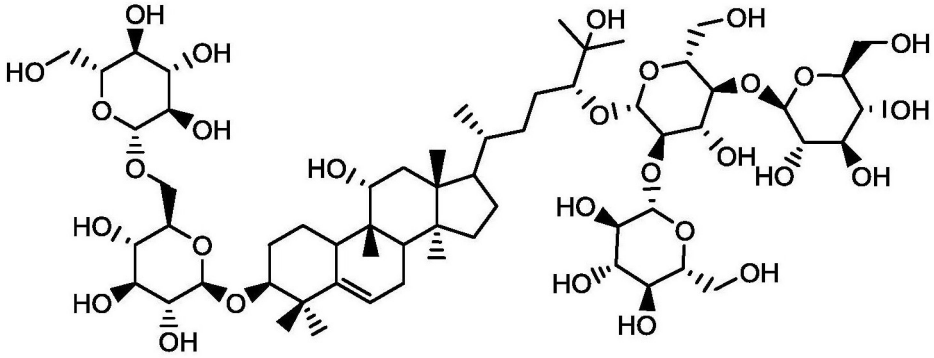


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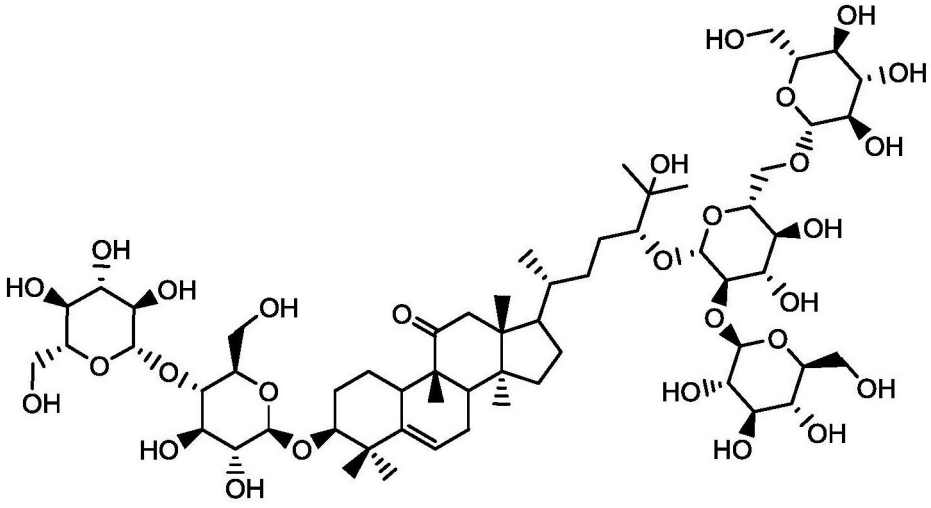
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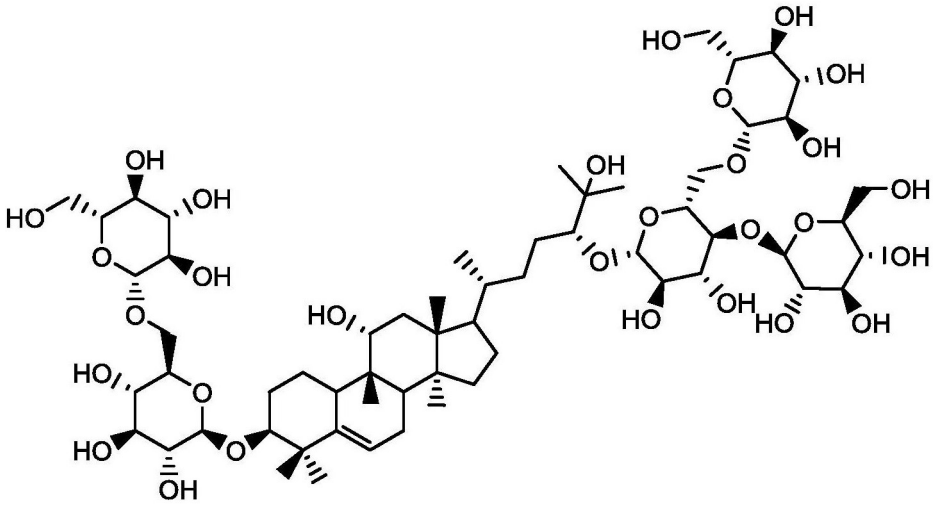


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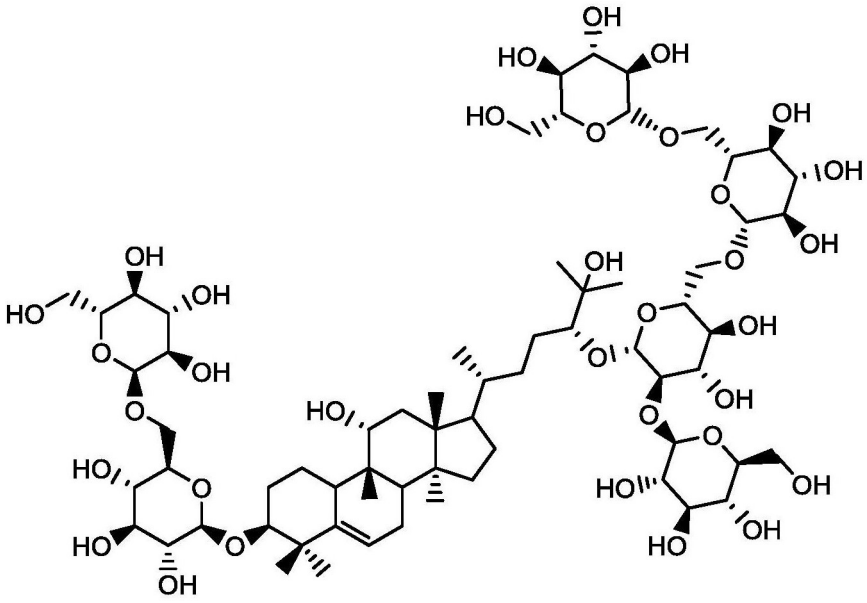


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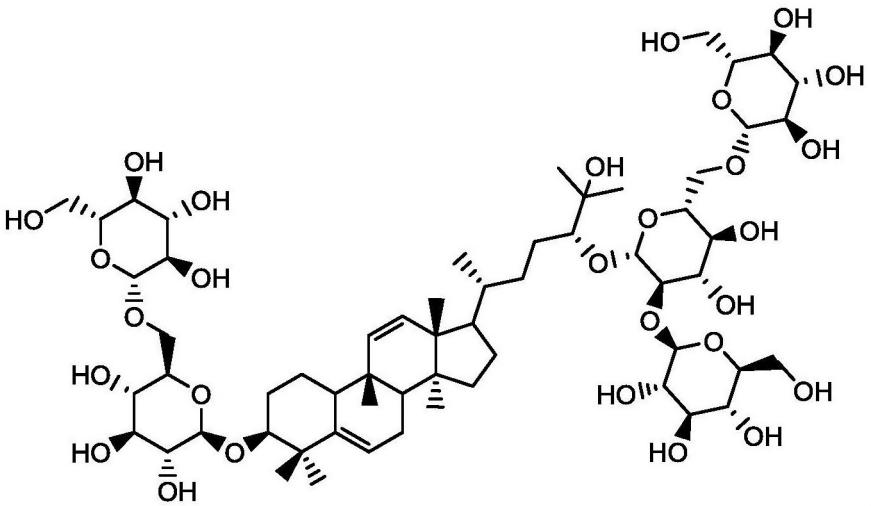
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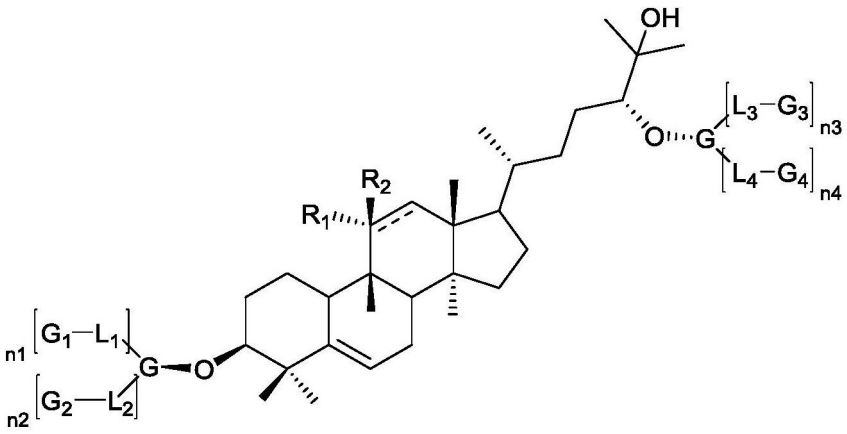


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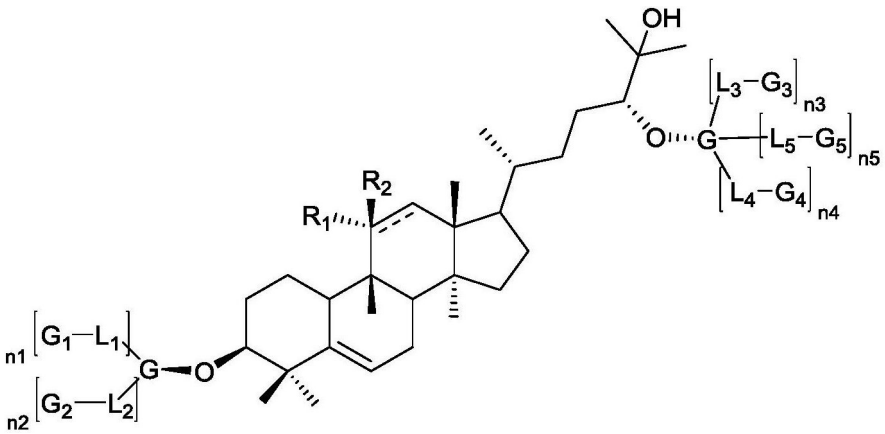
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[0134] 在一些实施方案中，式(I)的化合物、组合物、产品、方法或浓缩物包含具有式(Ia)的结构的化合物：

[0135]  或其盐。

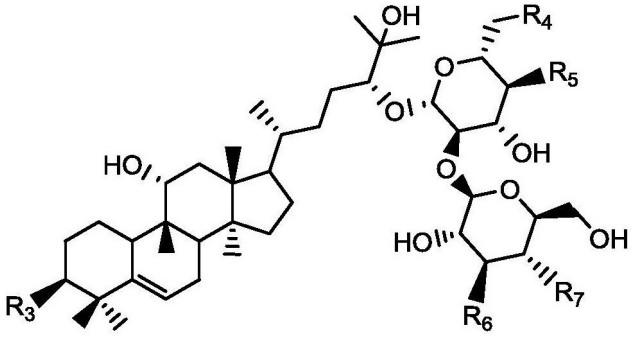
(Ia)，

[0136] 在一些实施方案中，式(I)的化合物、组合物、产品、方法或浓缩物包含具有式(Ib)的结构的化合物：

[0137]  或其盐。

(Ib)，

[0138] 在一些实施方案中，式(I)的化合物、组合物、产品、方法或浓缩物包含具有式(Ic)的结构的化合物：

[0139]  或其盐。

(Ic)，

[0140] 在一些实施方案中，R_4选自-OH和-$(L_3-G_3)_{n3}$。

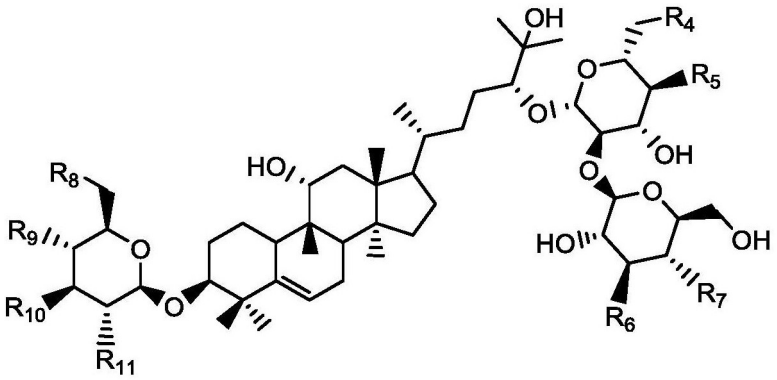
[0141] 在一些实施方案中，R_5选自-OH和-$(L_5-G_5)_{n5}$。

[0142] 在一些实施方案中，R_6和R_7独立地选自-OH和-L_6-G_6，条件是R_6和R_7不均为-L_6-G_6。

[0143] 在一些实施方案中，G_6为呋喃糖部分或吡喃糖部分。

[0144] 在一些实施方案中，L_6为糖苷键。

[0145] 在一些实施方案中，式(I)的化合物、组合物、产品、方法或浓缩物包含具有式(Id)的结构的化合物：

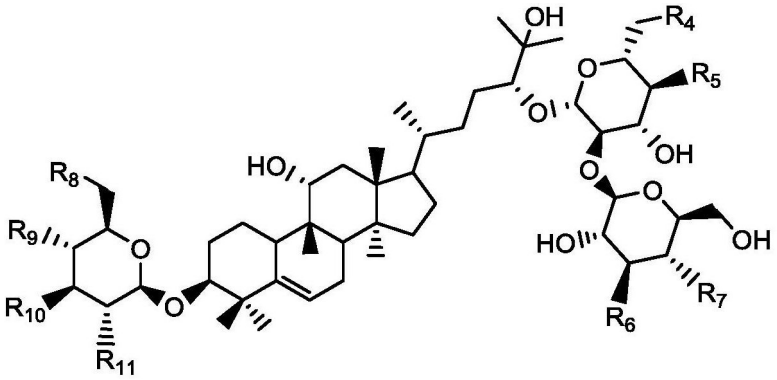
[0146]  或其盐。

(Id)，

[0147] 在一些实施方案中，R_8和R_9独立地选自-OH和-L_1-G_1，条件是R_8和R_9不均为-L_1-G_1。

[0148] 在一些实施方案中，R_{10}和R_{11}独立地选自-OH和-L_2-G_2，条件是R_{10}和R_{11}不均为-L_2-G_2。

[0149] 在一些实施方案中，式(I)的化合物、组合物、产品、方法或浓缩物包含具有式(Id)的结构的化合物：

[0150]  或其盐。

(Id)，

[0151] 在一些实施方案中，R_8和R_{10}独立地选自-OH和-L_1-G_1，条件是R_8和R_9不均为-L_1-G_1；以及

[0152] 在一些实施方案中，R_9和R_{11}独立地选自-OH和-L_2-G_2，条件是R_{10}和R_{11}不均为-L_2-G_2。

[0153] 在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_8、R_9、R_{10}和R_{11}各自为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_8为-L_1-G_1，并且R_9、R_{10}和R_{11}各自为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_9为L_1-G_1，并且R_8、R_{10}和R_{11}各自为-OH。

[0154] 在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_4为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_4为-L_3-G_3。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_5为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_5为-L_5-G_5。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_6和R_7为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_6为-L_6-G_6，并且R_7为-OH。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，R_6为-OH，并且R_7为-L_6-G_6。

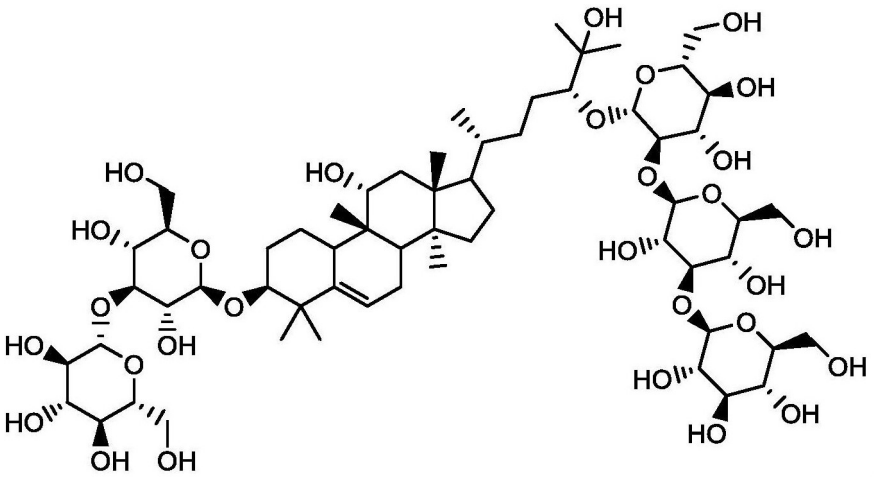
[0155] 在化合物、组合物、产品、方法或浓缩物的一些实施方案中，G、G_1、G_2、G_3、G_4和G_5各自独立地选自D-吡喃葡萄糖、L-吡喃葡萄糖、D-吡喃果糖、D-吡喃甘露糖、L-吡喃甘露糖、D-吡喃半乳糖、L-吡喃半乳糖、D-吡喃塔格糖、L-吡喃山梨糖、D-吡喃木糖、D-吡喃核糖、D-吡喃阿糖、L-吡喃阿糖、L-吡喃木酮糖、D-吡喃核酮糖、6-脱氧-D-吡喃葡萄糖、6-脱氧-L-吡喃葡

葡糖、6-脱氧-D-吡喃半乳糖、6-脱氧-L-吡喃半乳糖、6-脱氧-L-吡喃甘露糖、2-脱氧-D-吡喃核糖、D-吡喃金镂梅糖、D-呋喃葡萄糖、L-呋喃葡萄糖、D-呋喃果糖、D-呋喃甘露糖、L-呋喃甘露糖、D-呋喃半乳糖、L-呋喃半乳糖、D-呋喃塔格糖、L-呋喃山梨糖、D-呋喃木糖、D-呋喃核糖、D-呋喃阿糖、L-呋喃阿糖、L-呋喃木酮糖、D-呋喃核酮糖、D-苏式呋喃糖、D-赤式呋喃糖、6-脱氧-D-呋喃葡萄糖、6-脱氧-L-呋喃葡萄糖、6-脱氧-D-呋喃半乳糖、6-脱氧-L-呋喃半乳糖、6-脱氧-L-呋喃甘露糖、2-脱氧-D-呋喃核糖、D-呋喃芹菜糖(D-Apiofuranose)和D-呋喃金镂梅糖。

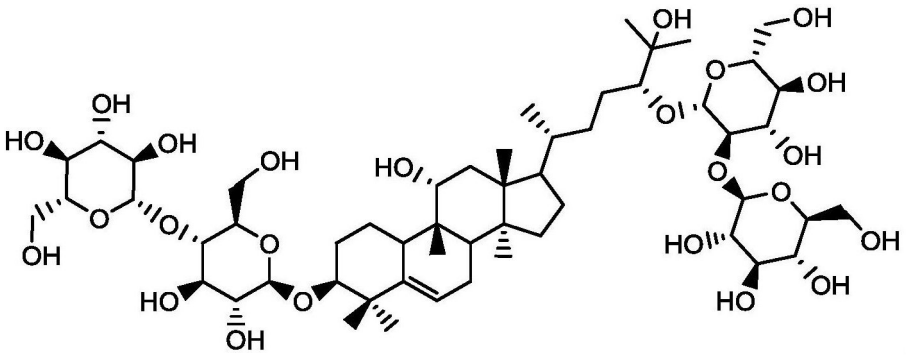
[0156] 在化合物、组合物、产品、方法或浓缩物的一些实施方案中，n^1、n^2、n^3、n^4和n^5各自独立地为0至2的整数。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，n^4为1、2或3。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，n^3为0。

[0157] 在化合物、组合物、产品、方法或浓缩物的一些实施方案中，L_1、L_2、L_3、L_4和L_5各自为β糖苷键。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，L_1、L_2、L_3、L_4和L_5各自为α糖苷键。在化合物、组合物、产品、方法或浓缩物的一些实施方案中，L_1、L_2、L_3、L_4和L_5中的至少一个为α糖苷键。

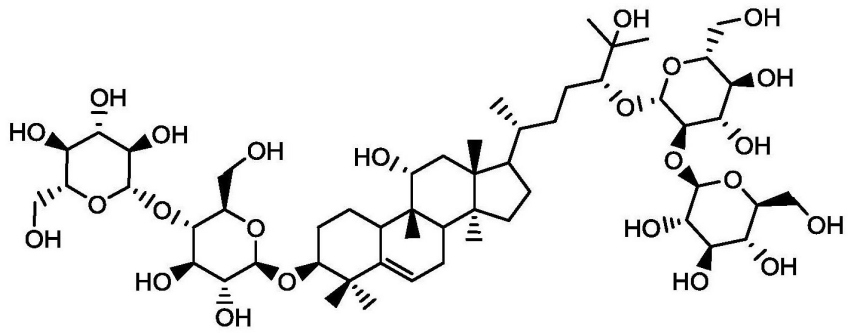
[0158] 在上述化合物、组合物、产品、方法或浓缩物的一些实施方案中，化合物具有结构：

[0159]  或其盐。

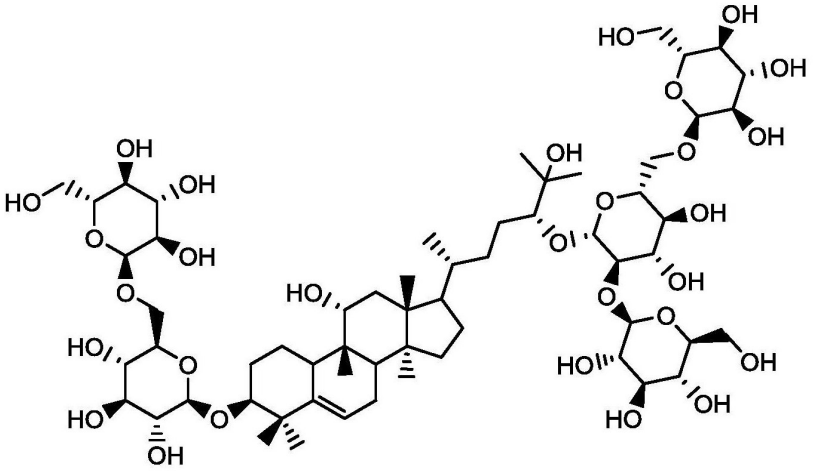
[0160] 在上述化合物、组合物、产品、方法或浓缩物的一些实施方案中，化合物具有结构：

[0161]  或其盐。

[0162] 在上述化合物、组合物、产品、方法或浓缩物的一些实施方案中，化合物具有选自以下的结构：

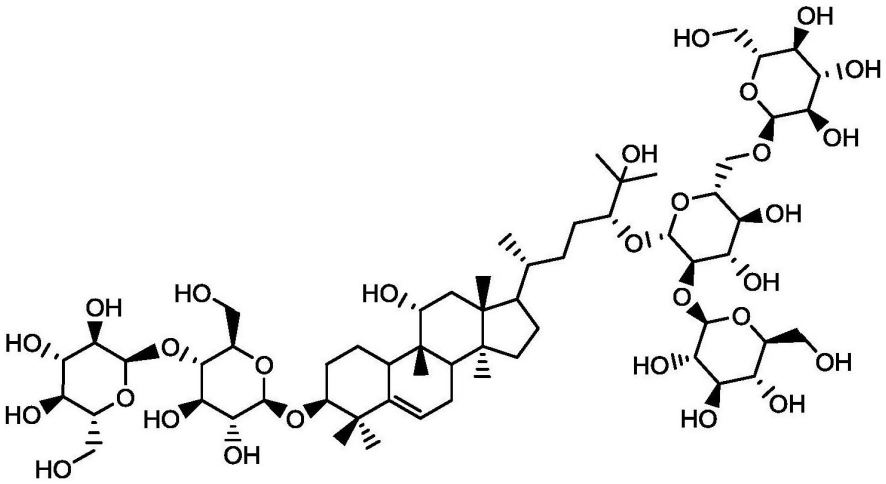


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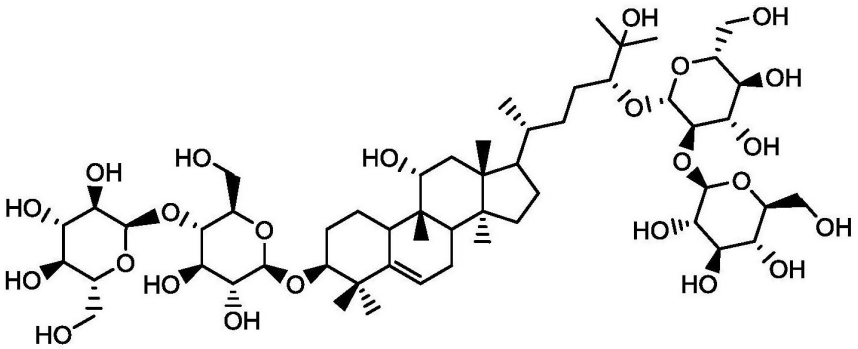


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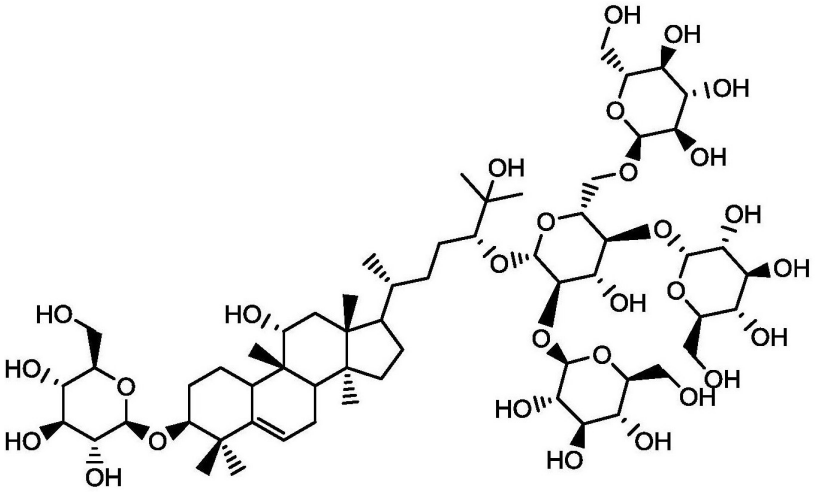
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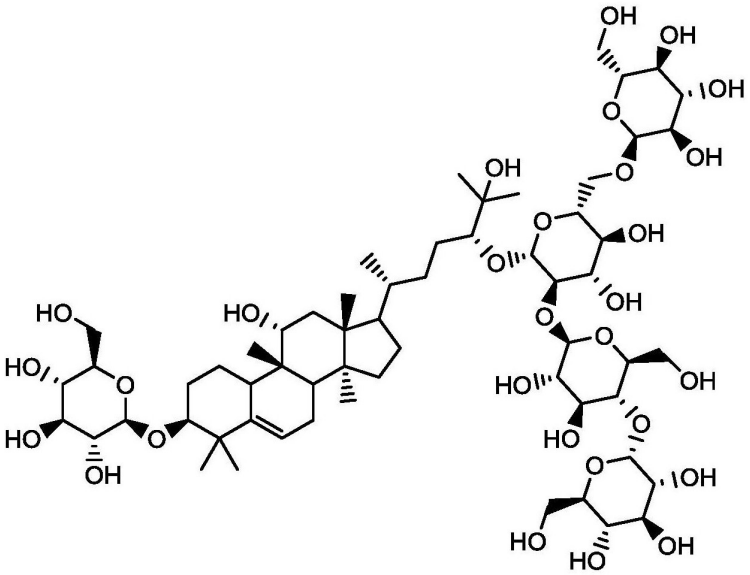


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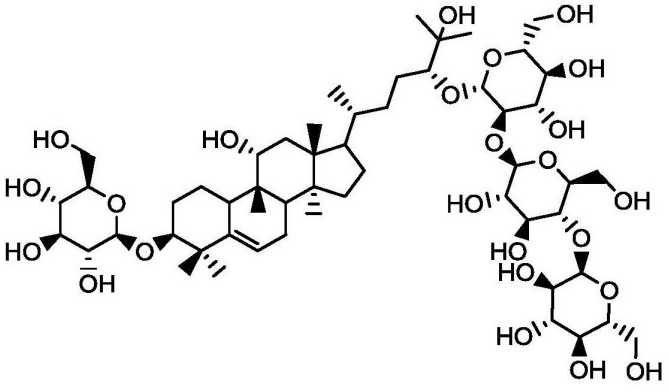


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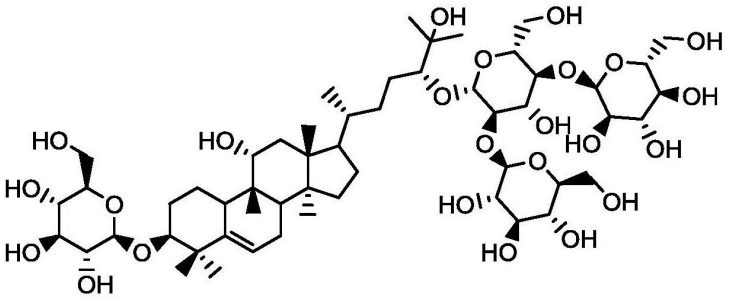
[0164]



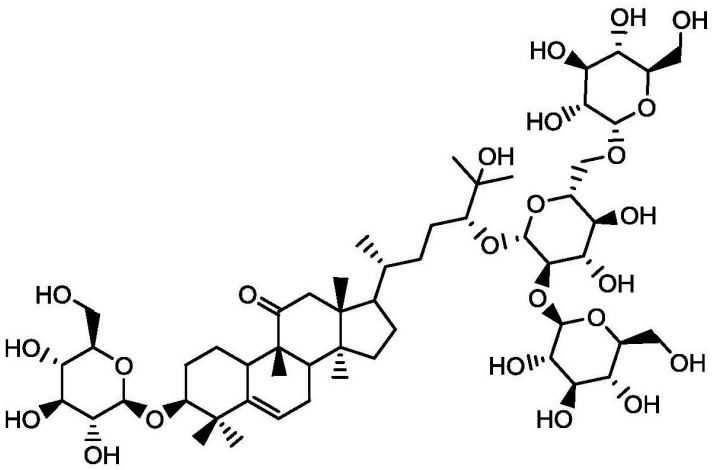
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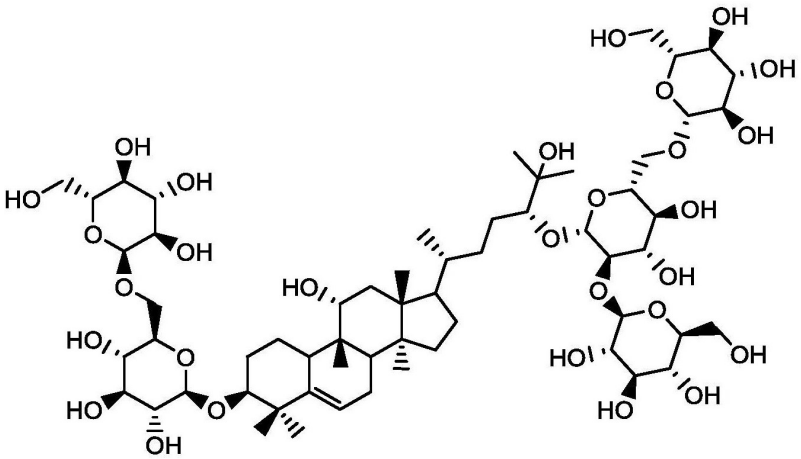


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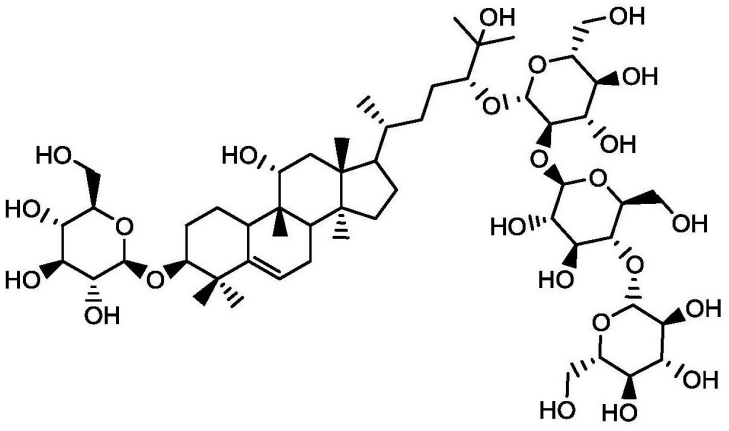


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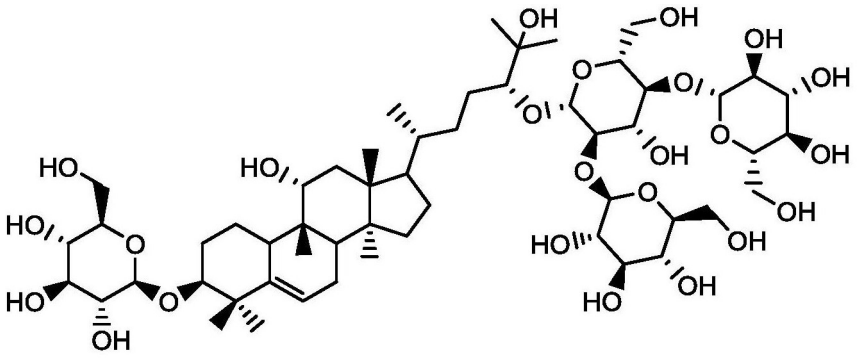


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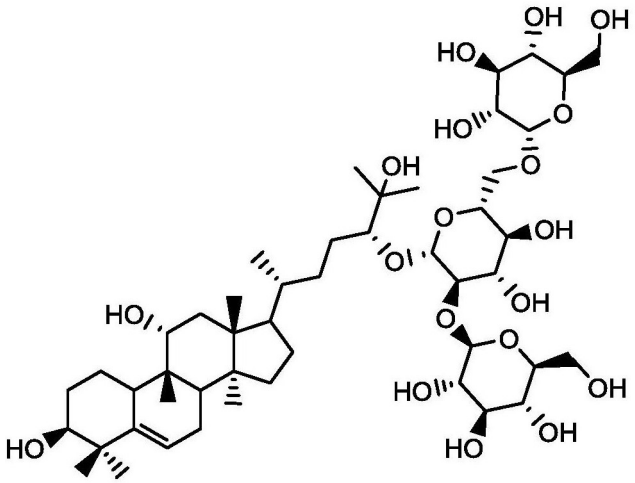


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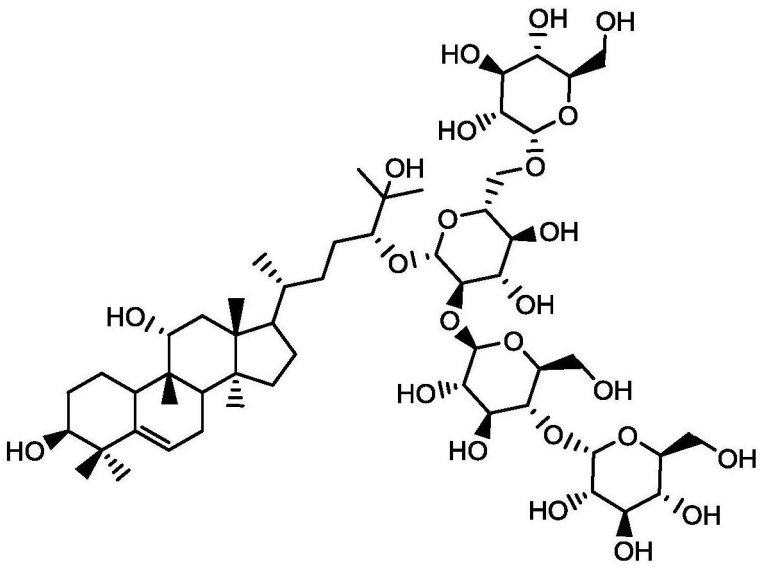
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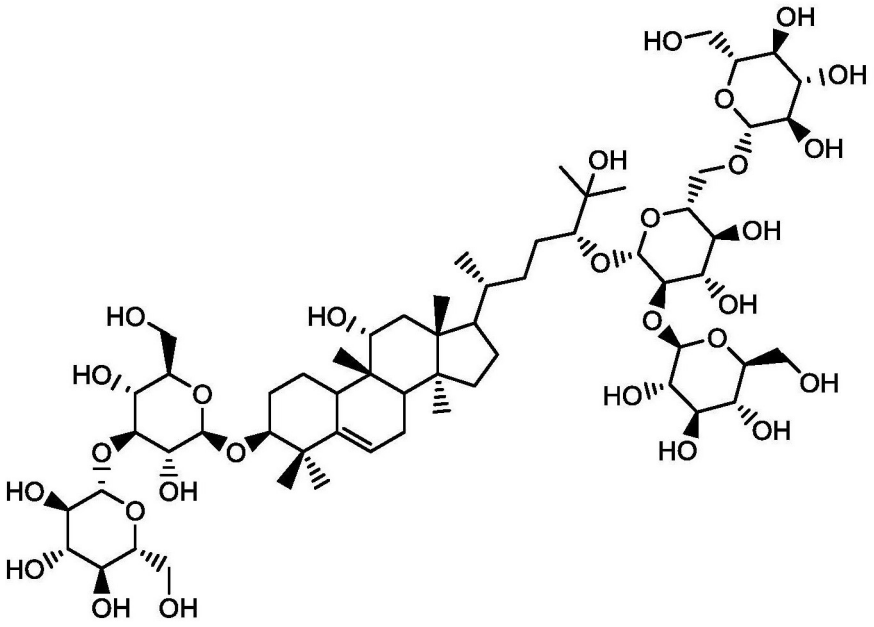


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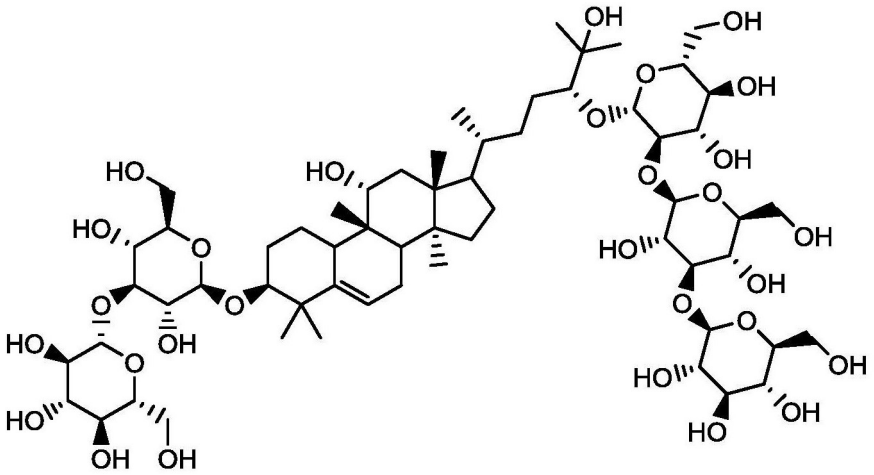


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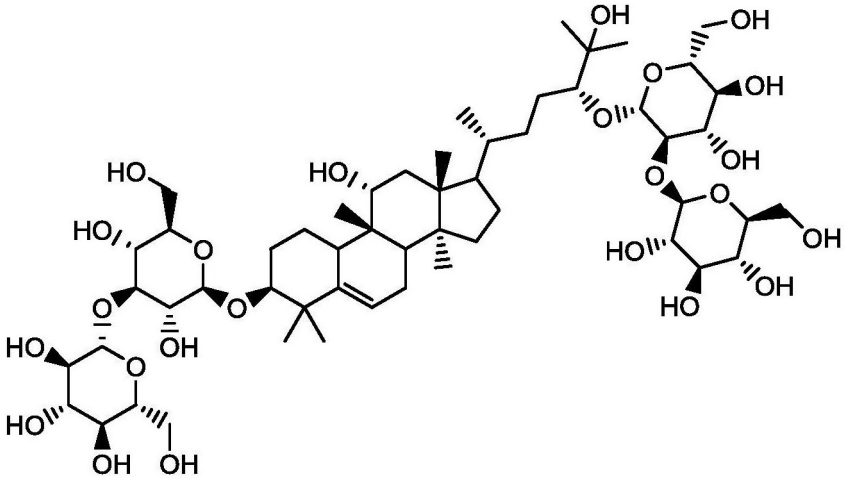
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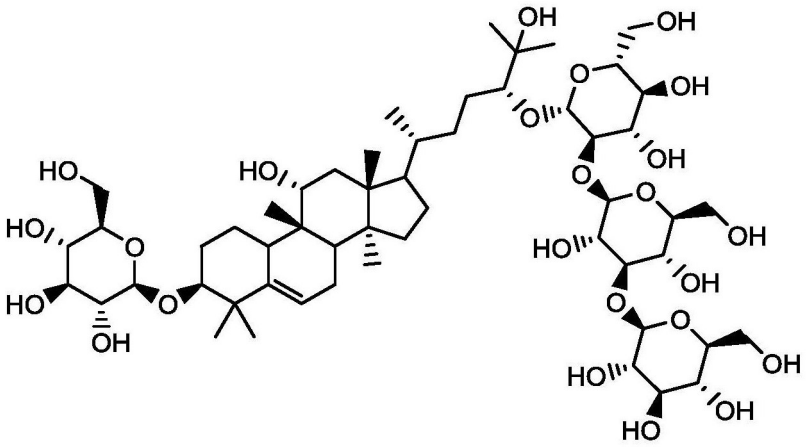


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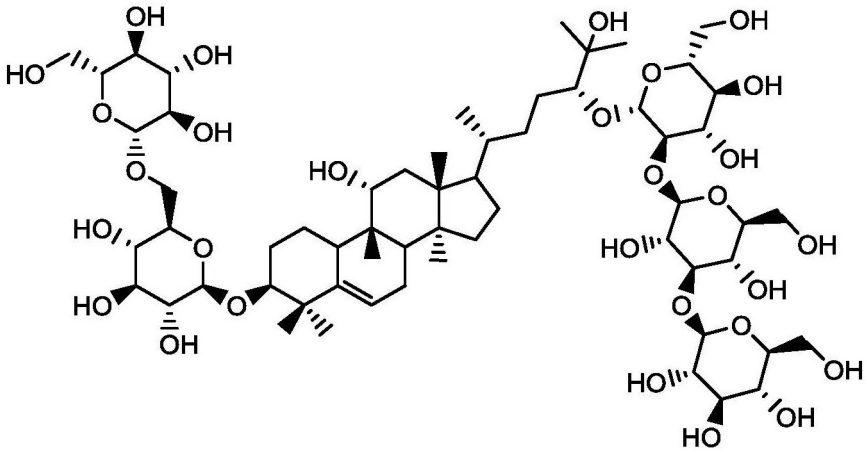


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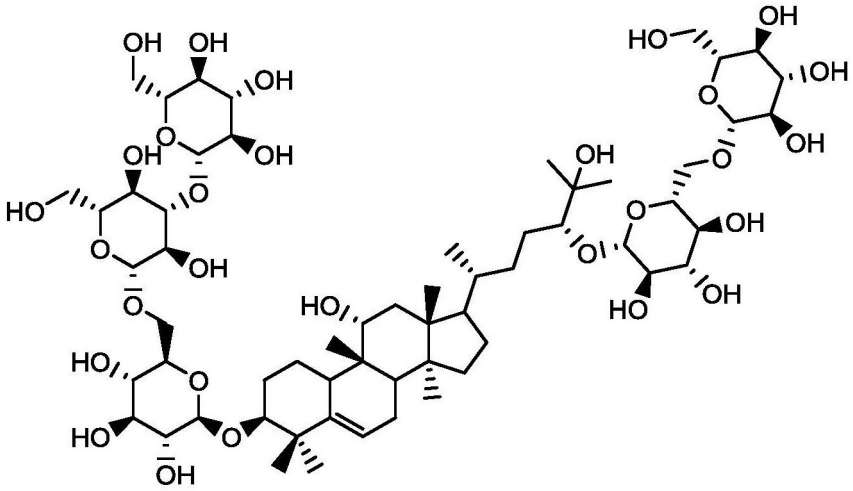
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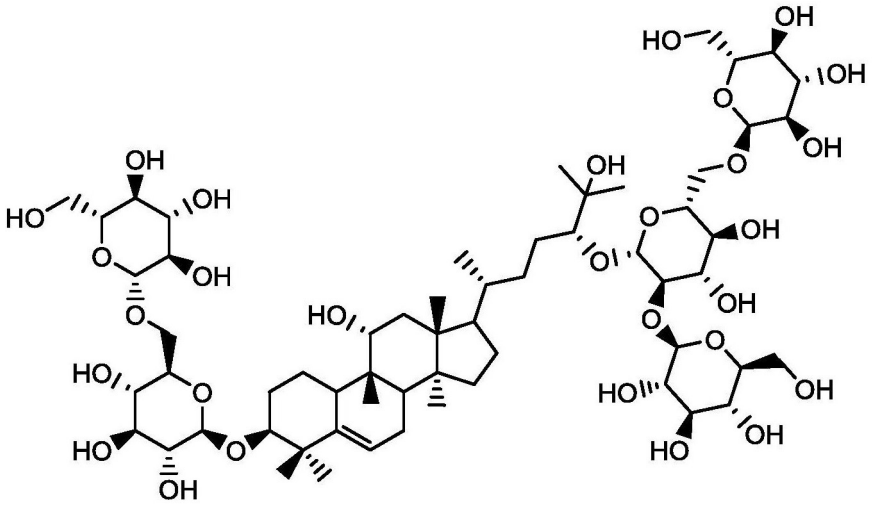


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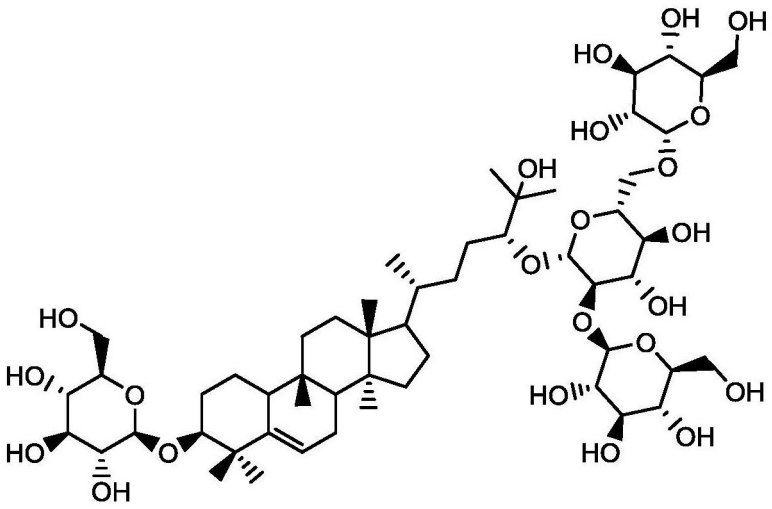


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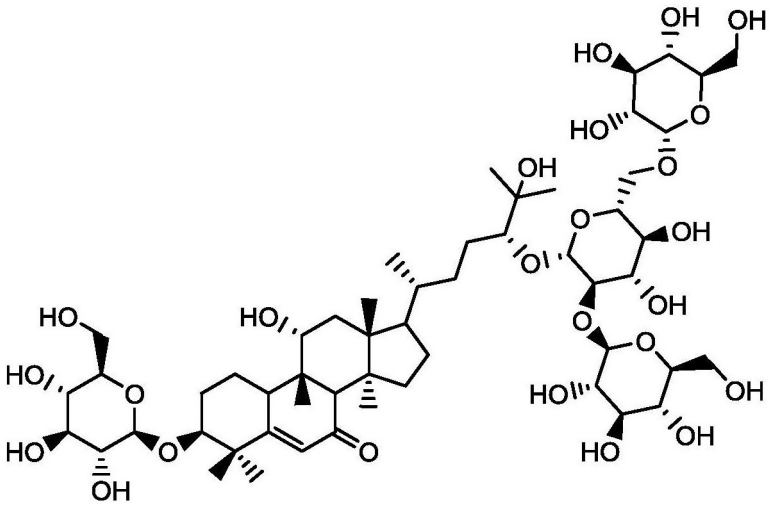
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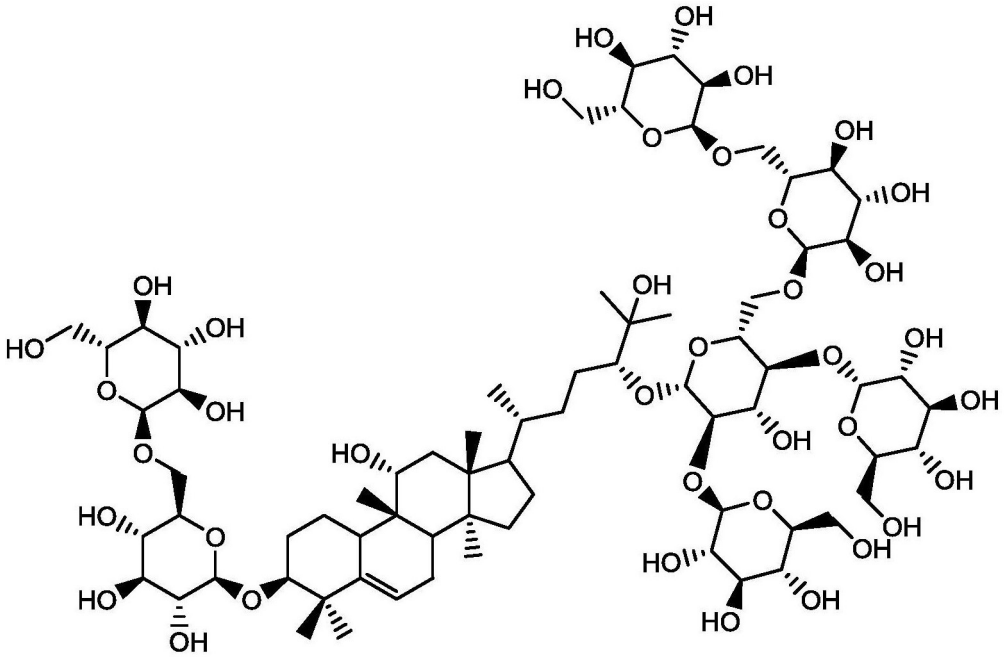


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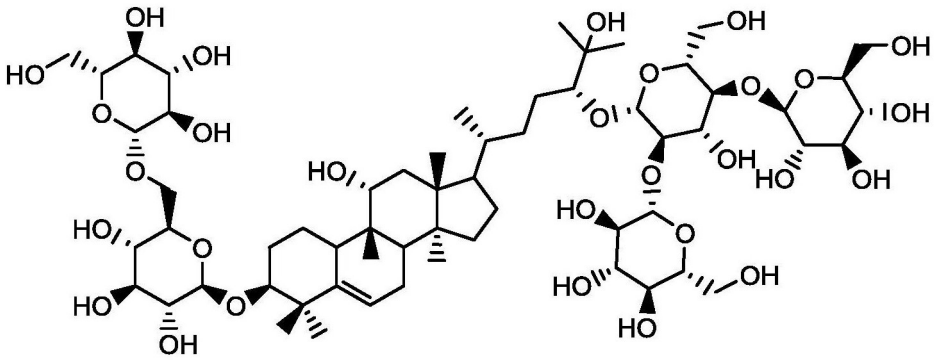


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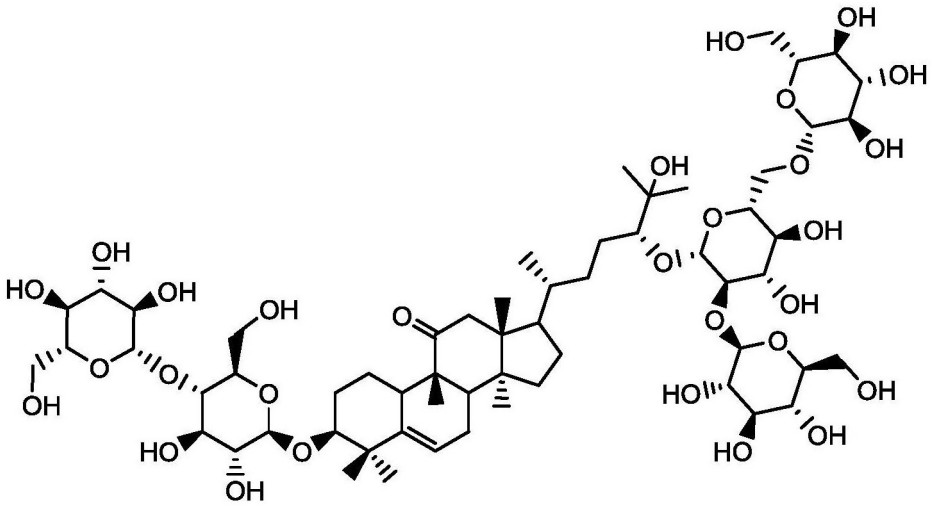
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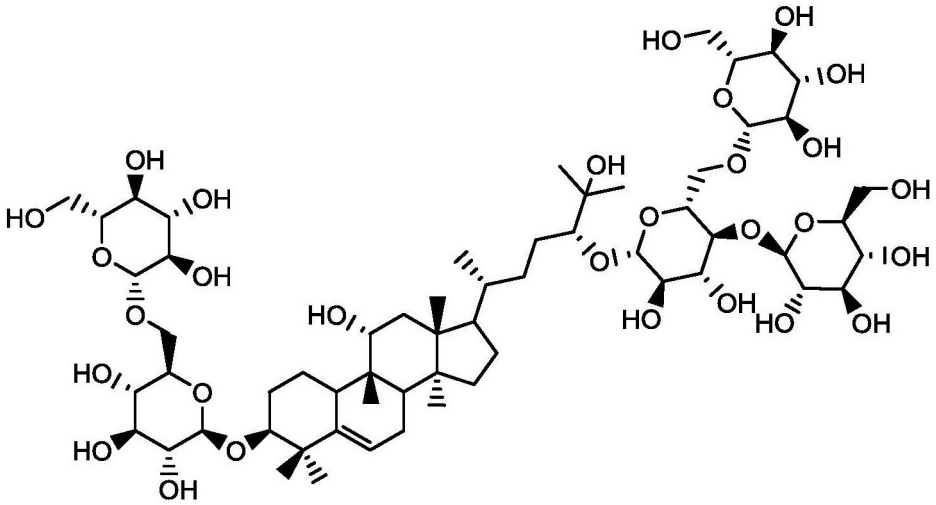


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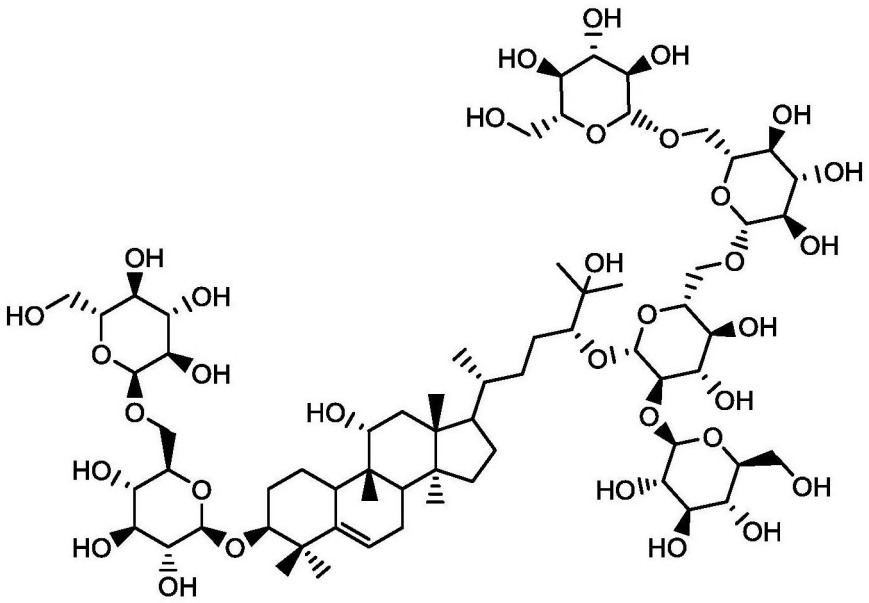


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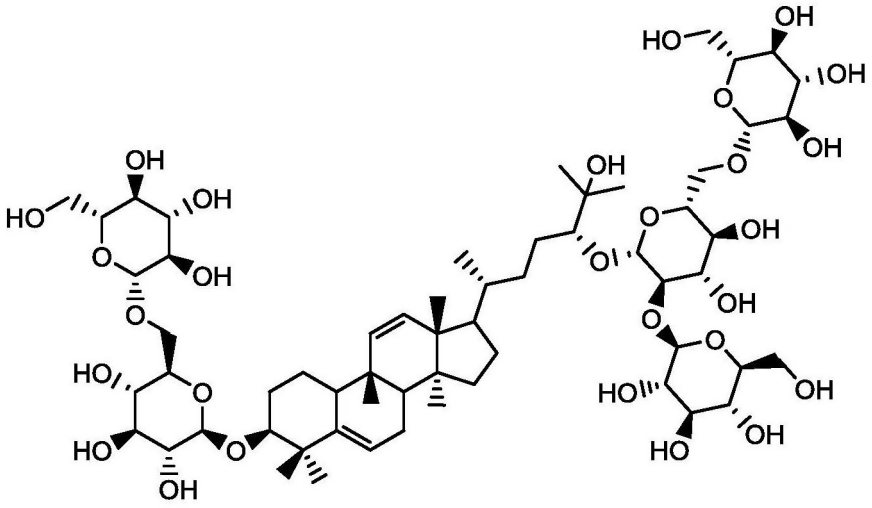
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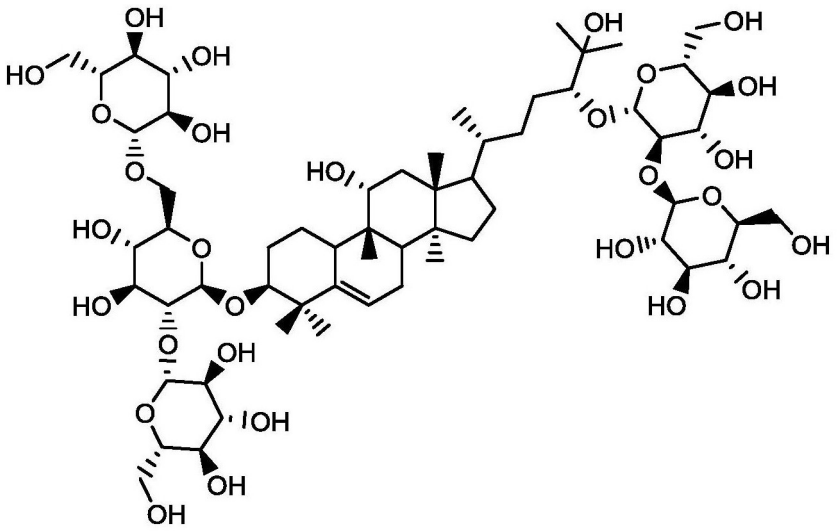


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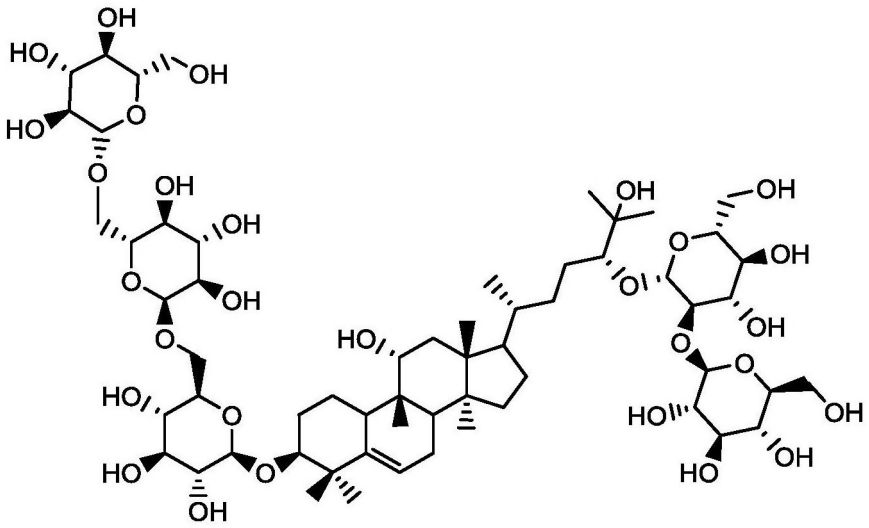


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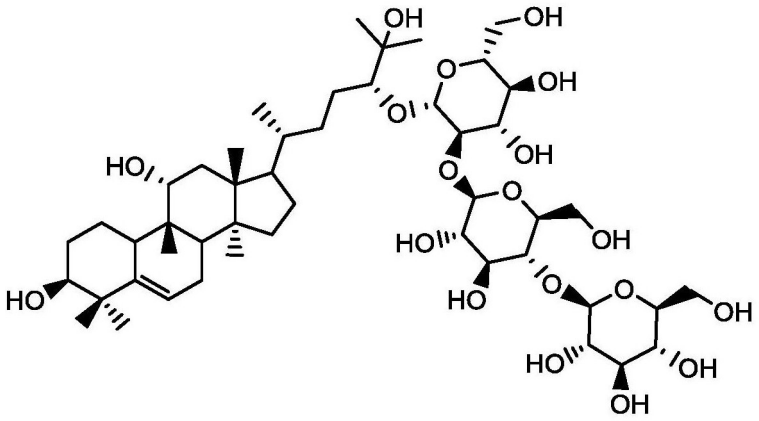
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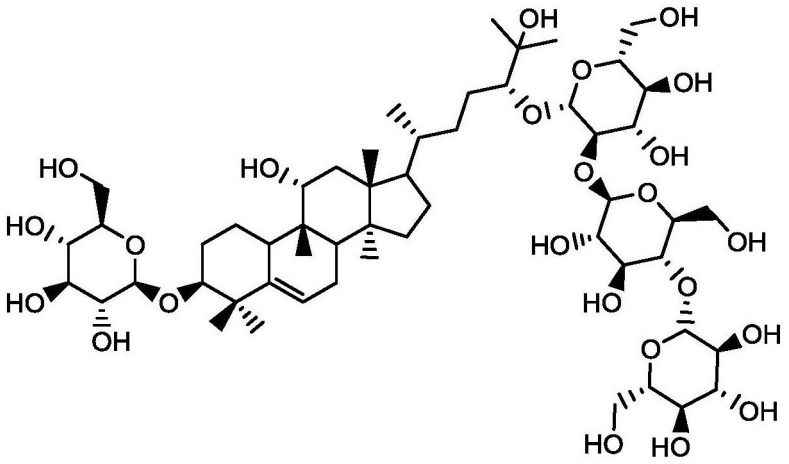


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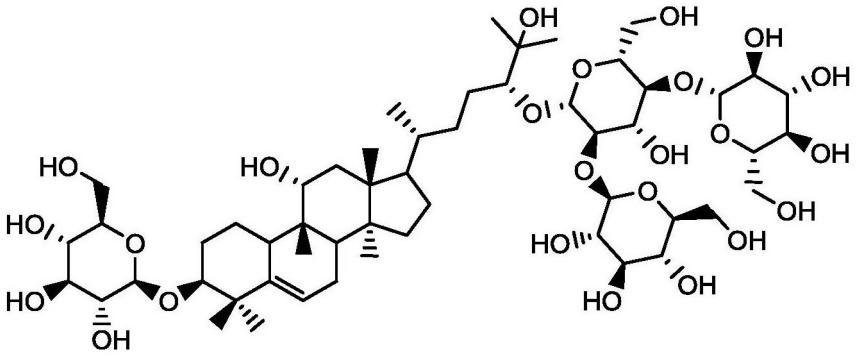


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[0173]

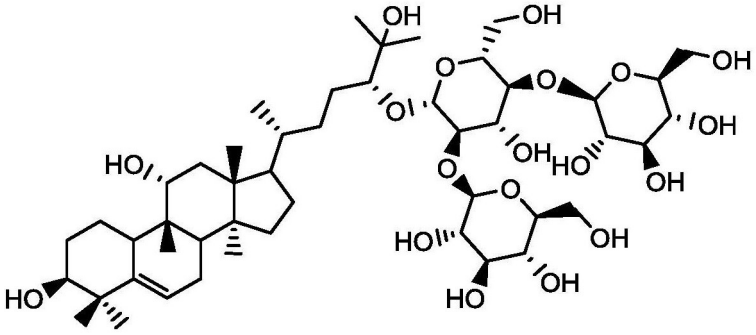


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[0174]

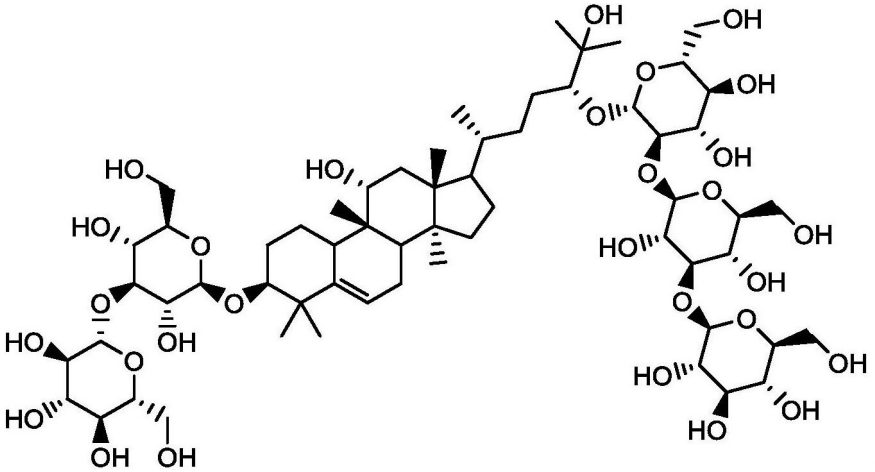


或其盐。

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[0175] 一些实施方案提供了制备具有以下结构的化合物的方法：

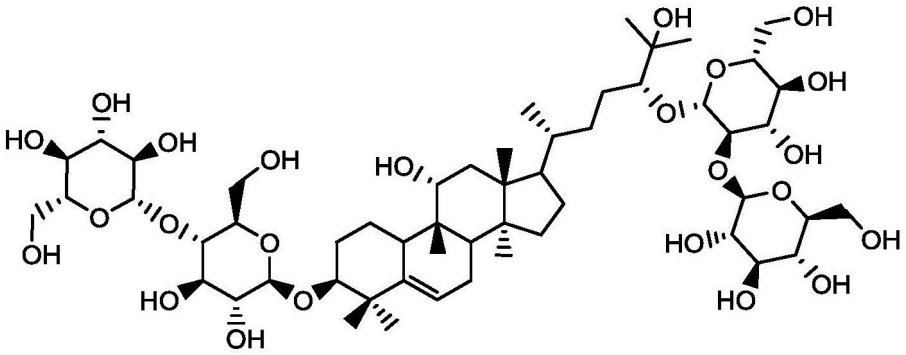
[0176]



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所述方法包括用葡萄糖转移酶UGT76G1处理罗汉果苷III_E。

[0177] 一些实施方案提供了制备具有化合物1的结构的化合物的方法：

[0178] 

(1)，

[0179] 所述方法包括在HPLC柱上分离罗汉果(Siraitia grosvenorii)的提取物，并且收集包含化合物1的洗脱级分。

[0180] 详述

[0181] 定义

[0182] 除非另外定义，本文使用的所有技术术语和科学术语具有与本公开所属领域普通技术人员通常理解相同的含义。所有的专利、申请、公开申请和其他公开文本通过引用整体并入。在本文的术语存在多个定义的情况下，以本节的定义为准，除非另外说明。

[0183] “溶剂化物”是指由溶剂与本文所述的化合物或其盐的相互作用而形成的化合物。适合的溶剂化物是生理可接受的溶剂化物，包括水合物。

[0184] 如本文使用的“甜味剂”、“甜味增味剂”、“甜味实体”、“甜化合物”或“甜味化合物”是指在对象中引起可察觉的甜味的化合物或其生理可接受的盐。

[0185] 如本文使用的，术语“医药产品”包括作为具有医用价值的可摄取的无毒材料或者包含医学活性试剂的固体组合物和液体组合物，例如止咳糖浆、止咳滴液、阿司匹林和可咀嚼药片。

[0186] “口腔护理产品”包括固体和液体，例如牙膏或漱口水。

[0187] 如本文使用的，术语“抗结块剂”是指置于粉末或颗粒状材料中以防止团聚物(结块)形成的化合物。适合的抗结块剂包括但不限于塔塔粉、磷酸三钙、粉末状纤维素(包括微晶纤维素)、硬脂酸镁、碳酸氢钠、亚铁氰化钠、亚铁氰化钾、亚铁氰化钙、硅酸钠、二氧化硅、硅酸钙、三硅酸镁、滑石粉、铝硅酸钠、硅酸铝钾、铝硅酸钙、膨润土、硅酸铝、硬脂酸、聚二甲基硅氧烷。

[0188] 如本文使用的，术语“螯合剂”是指可以与金属离子形成两个或更多个键的化合物(例如，多齿配体)。适合的螯合剂包括但不限于乙二胺、乙二胺四乙酸(EDTA)、柠檬酸和氨基酸。

[0189] 本文的“风味改性化合物”或“风味改性剂(flavor modifier)”或“风味改性剂(flavor modifying agent)”是指在动物或人中调节(包括增强或强化和/或引起)增味剂的味道的化合物或其可摄取接受的盐或溶剂化物。风味改性化合物的实例是甜味增强剂。

[0190] 本文的“增味剂”是指在动物或人中引起风味或味道的化合物或其可摄取接受的盐或溶剂化物。增味剂可以是天然的、半合成的或合成的。

[0191] 本文的“风味增强剂”是指增强和/或增加增味剂或包含增味剂的可摄取组合物的味道的化合物或其可摄取接受的盐。

[0192] 本文的“增强剂”是指调节(增强)风味(例如,甜味)或者特定受体的活化的化合物或其可摄取接受的盐或溶剂化物,所述受体优选为化学感觉受体,例如,T1R2/T1R3受体。

[0193] 本文的“风味”是指对象的味道感觉,包括甜味、酸味、咸味、苦味和甘味。对象可以是人或动物。

[0194] 本文的“甜味改性剂(sweet flavor modifier)”或“甜味改性剂(sweet flavor modifying agent)”是指在动物或人中调节(包括增强或强化、引发或阻断)甜味增味剂的甜味的化合物或其可摄取接受的盐或溶剂化物。甜味改性剂包括甜味增强剂和甜味增味剂。

[0195] 本文的“甜味增强剂(sweet flavor enhancer)”或“甜味增强剂(sweet flavor enhancing agent)”是指甜味的增强剂,其中术语增强剂与上文所定义的相同。

[0196] 本发明化合物的“类糖”特性包括类似于蔗糖特性的任何特性,并且包括但不限于,最大反应、风味曲线、时间曲线、适应行为、口感、浓度/反应函数、促味剂/风味/甜味相互作用、空间模式选择性以及温度效应。这些特性是蔗糖的味道不同于其他化合物的味道的尺度。当然,风味曲线和时间曲线是特别重要的。在甜的食品或饮料的单次品尝中,在对蔗糖和其他化合物的观察中,可以注意到在(1)组成甜味剂的风味曲线的属性以及(2)组成甜味剂的时间曲线的甜味出现和消散的速率方面的差异。

[0197] 甜味剂的味道曲线是表现出的所有味道属性的相对强度的定量曲线。此类曲线通常以柱状图或雷达图绘制。

[0198] 如本文使用的,“分离的”意指所示化合物已从其天然环境中分离,使得天然状态中与该化合物一同存在的一种或多种其他化合物或生物试剂不再存在。

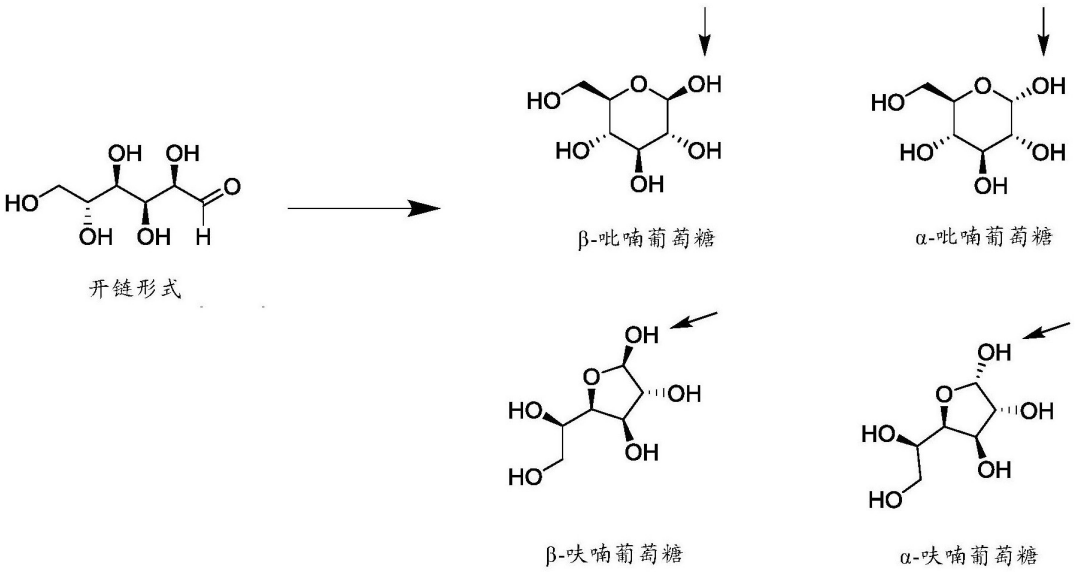
[0199] 如本文使用的,“纯化的”意指所示化合物以相对于通常与所示化合物一起存在的其他化合物(例如,在其天然环境中)更高的量存在。在各种实施方案中,纯化的化合物的相对量提高了大于1%、5%、10%、20%、30%、40%、50%、80%、90%、100%、120%、150%、200%、300%、400%或1000%。在一些实施方案中,相对于与纯化的化合物结合的其他化合物,纯化的化合物以大于1%、5%、10%、20%、30%、40%、50%、60%、70%、80%、90%、95%、98%、99%或99.5%的重量百分比水平存在。

[0200] 如本文使用的,“吡喃糖”是指具有包括5个碳原子和1个氧原子的六元环、任选的环外其他原子的化学结构的糖类群组。例如,下文示出的吡喃葡萄糖结构。在一些实施方案中,吡喃糖可以是戊糖或己糖。吡喃糖的非限制性实例包括核糖、阿拉伯糖、木糖、来苏糖、阿洛糖、阿卓糖、葡萄糖、甘露糖、古洛糖、艾杜糖(iodose)、半乳糖和塔洛糖的六元环形式。吡喃糖可以具有D-构型或L-构型。在式(I)的情况中,吡喃糖部分作为连接至分子的其他部分(例如,罗汉果醇骨架或者其他的吡喃糖或呋喃糖部分)的单基团或双基团存在。

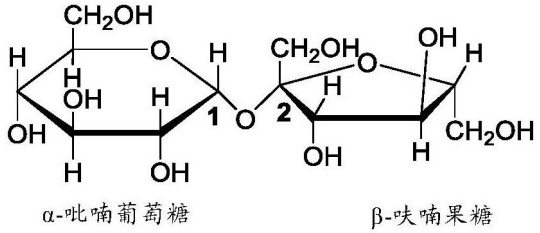
[0201] 如本文使用的,“呋喃糖”是指具有包括4个碳原子和1个氧原子的五元环、任选的环外其他原子的化学结构的糖类群组。例如,下文示出的呋喃葡萄糖结构。在一些实施方案中,呋喃糖可以是戊糖或己糖。呋喃糖的非限制性实例包括核糖、阿拉伯糖、木糖、来苏糖、阿洛糖、阿卓糖、葡萄糖、甘露糖、古洛糖、艾杜糖、半乳糖和塔洛糖的五元环形式。呋喃糖可以具有D-构型或L-构型。在式(I)的情况中,呋喃糖部分作为连接至分子的其他部分(例如,罗汉果醇骨架或者其他吡喃糖部分或呋喃糖部分)的单基团或双基团存在。

[0202] 根据异头(anomeric)羟基的定向(由下文葡萄糖结构中的箭头所示),吡喃糖部分

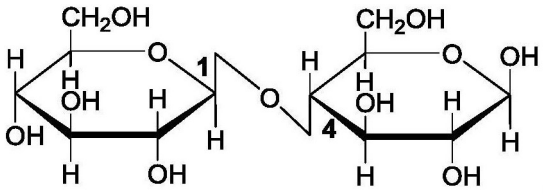
和呋喃糖部分可以是阿尔法(α)或贝塔(β)型。

[0203] 

[0204] 如本文使用的,“糖苷键”是指将两个呋喃糖和/或吡喃糖基团连接在一起的共价键。通常,糖苷键是一个呋喃糖部分或吡喃糖部分的异头碳与另一个呋喃糖部分或吡喃糖部分的氧之间的键。使用连接的碳原子的编号以及α/β定向来命名糖苷键。根据环中离C1最远的异头位置和立构中心的相对立体化学来区分α-糖苷键和β-糖苷键。例如,蔗糖是由通过α1-2糖苷键连接的一个分子的葡萄糖和一个分子的果糖组成的二糖,如下文所示。

[0205] 

[0206] β1-4糖苷键的实例可以见于纤维素中:

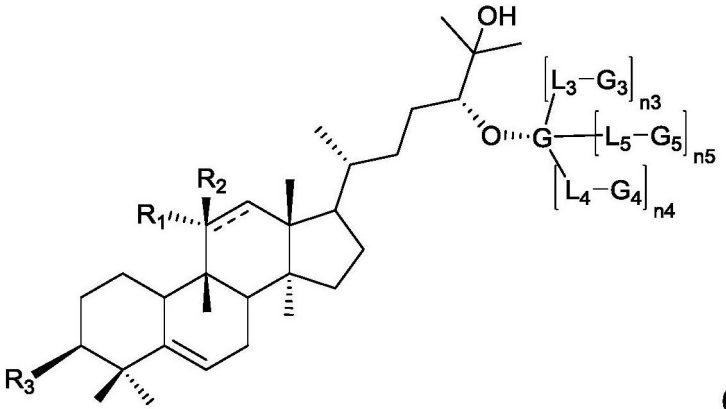
[0207]  。

[0208] 必须注意,如本说明书和所附权利要求书中使用的,单数形式“一(a)”、“一(an)”和“所述(the)”包括复数指代物,除非上下文中另外明确指明。因此,例如,提及“芳香族化合物”包括芳香族化合物的混合物。

[0209] 通常,范围在本文表述为从“约”一个具体值,和/或至“约”另一个具体值。当表述此类范围时,另一个实施方案包括从一个具体值和/或至另一个具体值。类似地,当值通过使用前缀“约”表述为近似值时,应理解具体的值形成了另一个实施方案。还应理解,各个范围的端点均对于另一个端点是重要的,并且独立于另一个端点。

[0210] 化合物

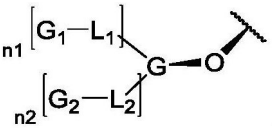
[0211] 一些实施方案提供了具有式(I)的结构的化合物:

[0212]  或其盐。

(I),

[0213] 在一些实施方案中，------表示碳-碳单键或碳-碳双键。

[0214] 在一些实施方案中，R_1不存在或者为羟基，并且R_2为氢，或者R_1和R_2连同它们连接的碳原子一起形成氧代基团。

[0215] 在一些实施方案中，R_3选自-OH和  。

[0216] 在一些实施方案中，n^1、n^2、n^3、n^4和n^5各自独立地为0至3的整数。

[0217] 在一些实施方案中，G、G_1、G_2、G_3、G_4和G_5各自独立地为呋喃糖部分或吡喃糖部分。

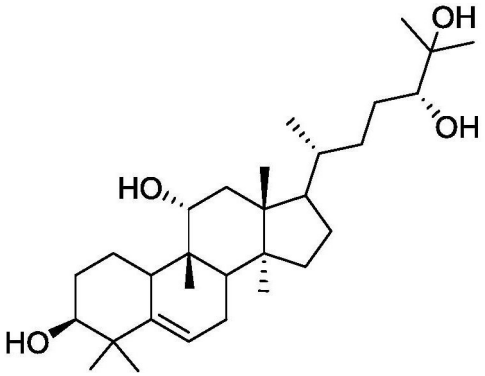
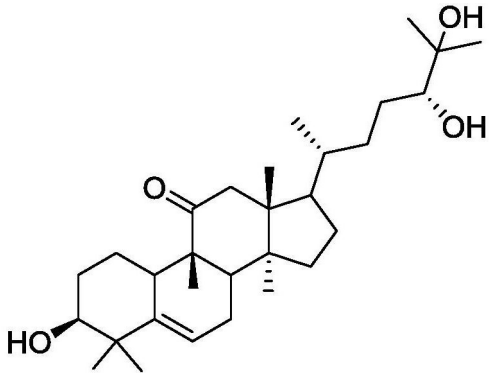
[0218] 在一些实施方案中，L_1、L_2、L_3、L_4和L_5各自独立地为糖苷键。

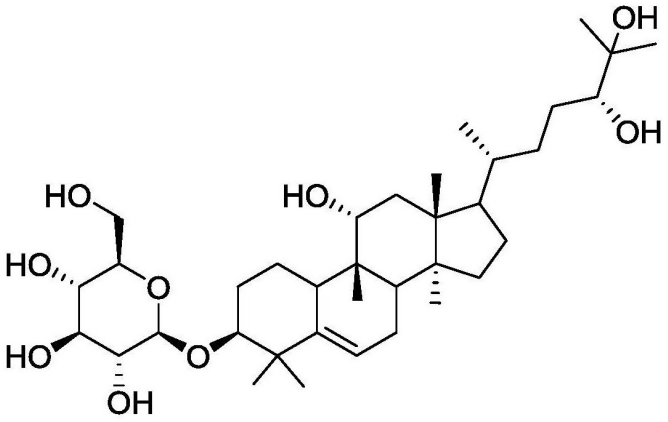
[0219] 当------为碳-碳双键时，R_1不存在。

[0220] 在一些实施方案中，化合物为分离且纯化的形式。

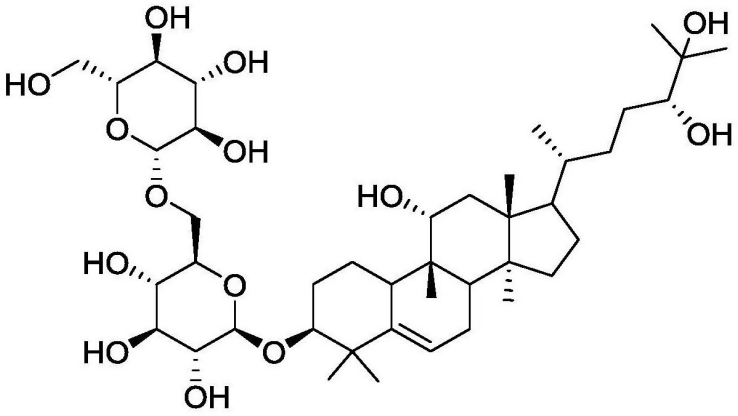
[0221] 在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6各自独立地选自α-1,2糖苷键；α-1,3糖苷键；α-1,4糖苷键；α-1,6糖苷键；β-1,2糖苷键；β-1,3糖苷键；β-1,4糖苷键和β-1,6糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个选自α-1,2糖苷键；α-1,3糖苷键；α-1,4糖苷键和α-1,6糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个选自β-1,2糖苷键；β-1,3糖苷键；β-1,4糖苷键和β-1,6糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为α-1,2糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为α-1,3糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为α-1,4糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为α-1,6糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为β-1,2糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为β-1,3糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为β-1,4糖苷键。在一些实施方案中，L_1、L_2、L_3、L_4、L_5和L_6中的至少一个为β-1,6糖苷键。

[0222] 在上述化合物、组合物、产品、方法或浓缩物的一些实施方案中，式(I)不选自：

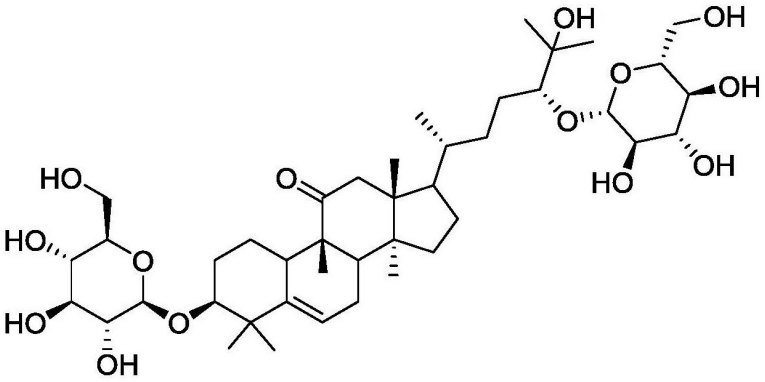
[0223]  ,  ,



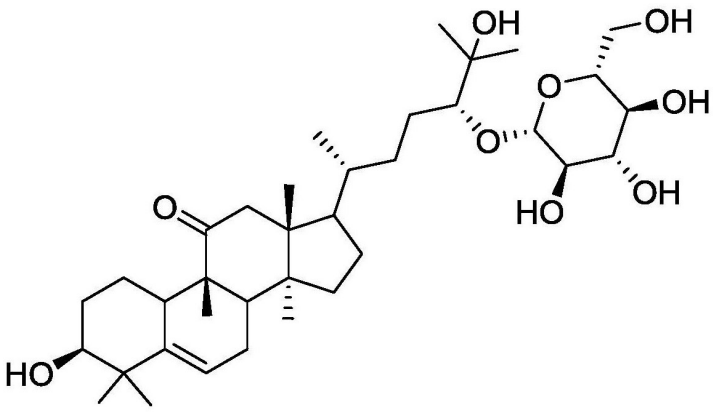
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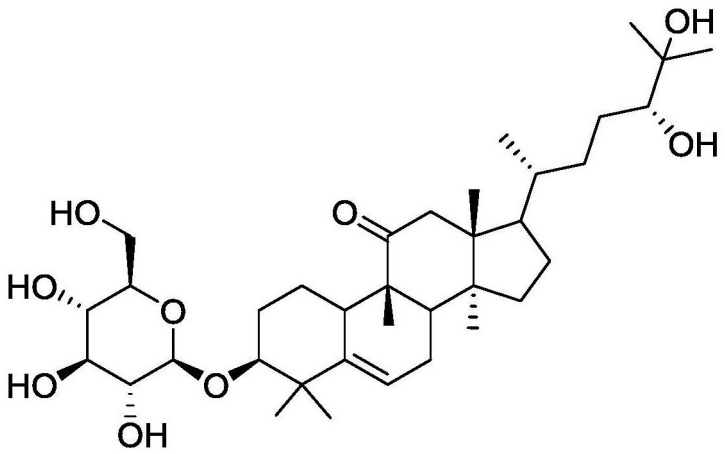


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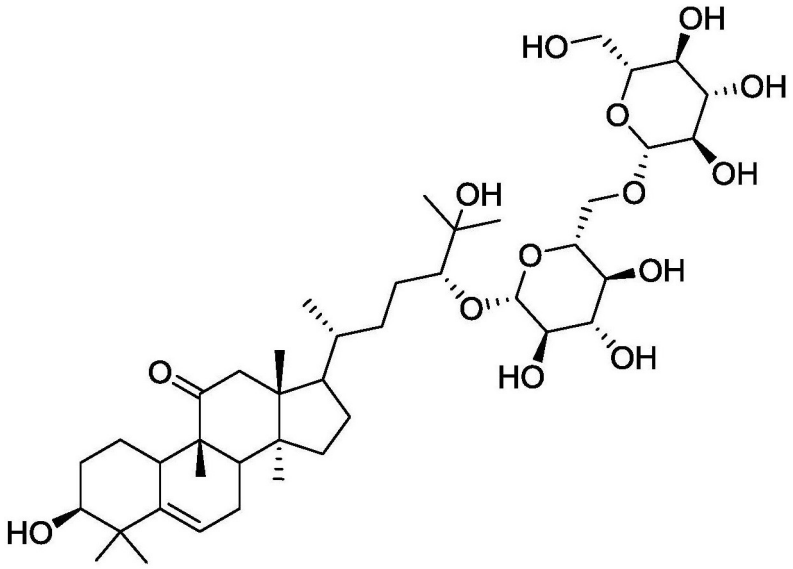


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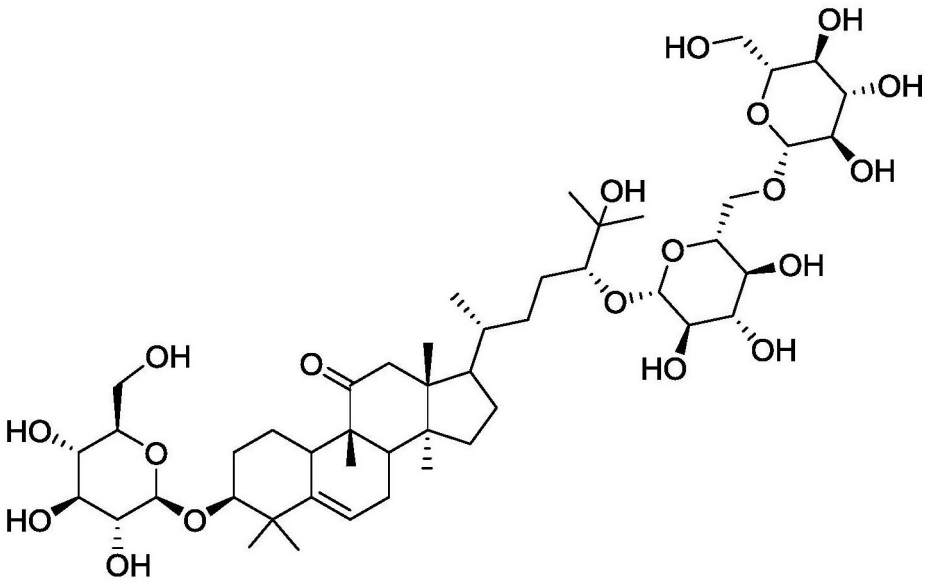
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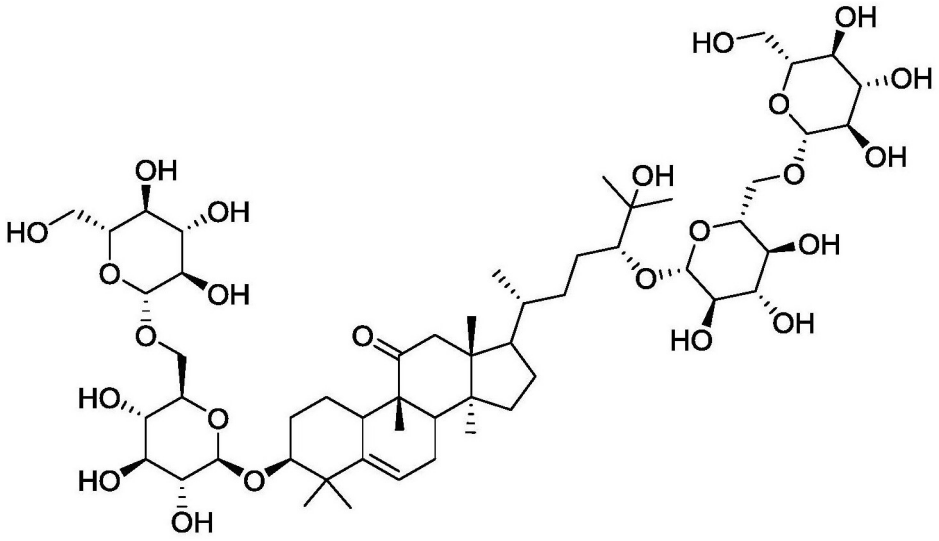


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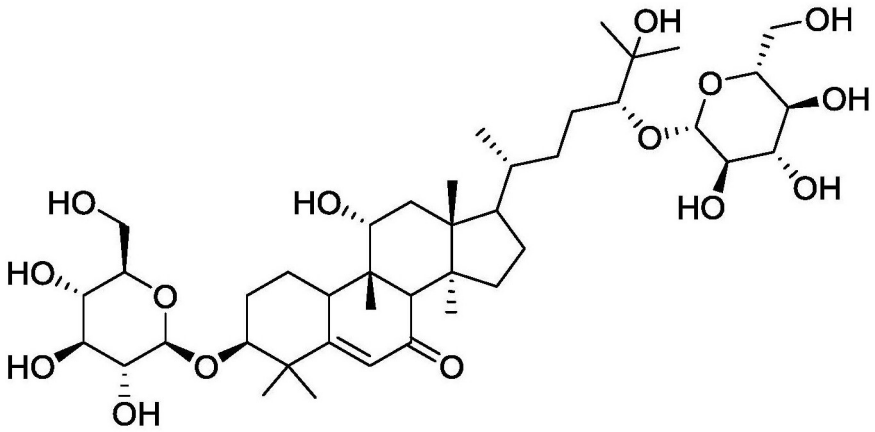


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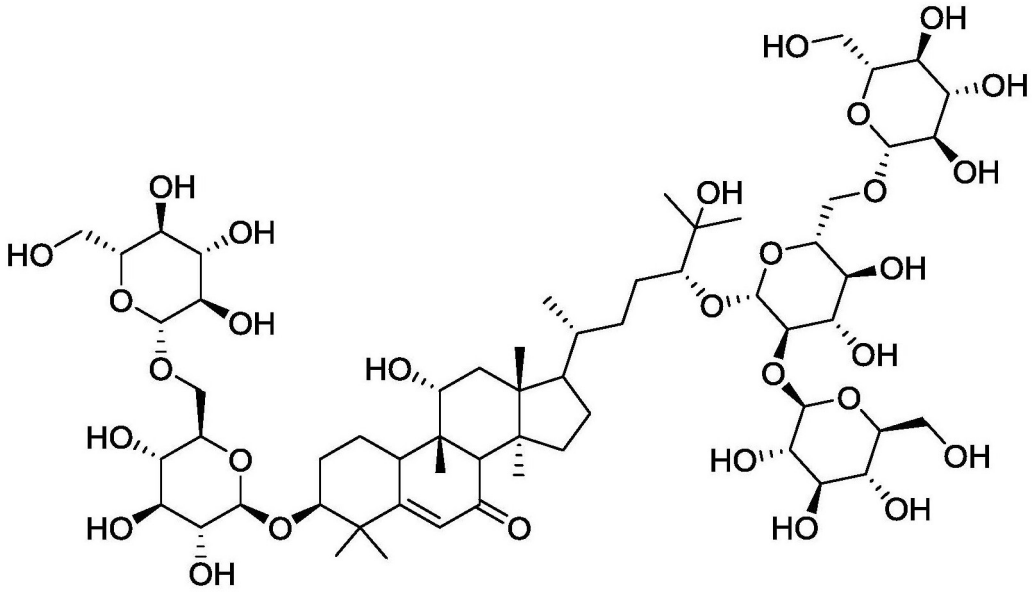
[0226]



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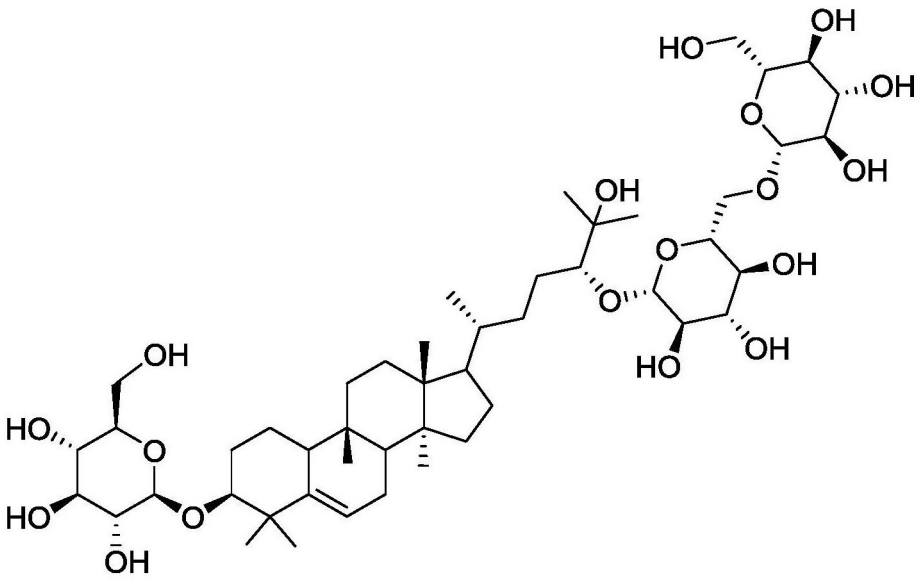


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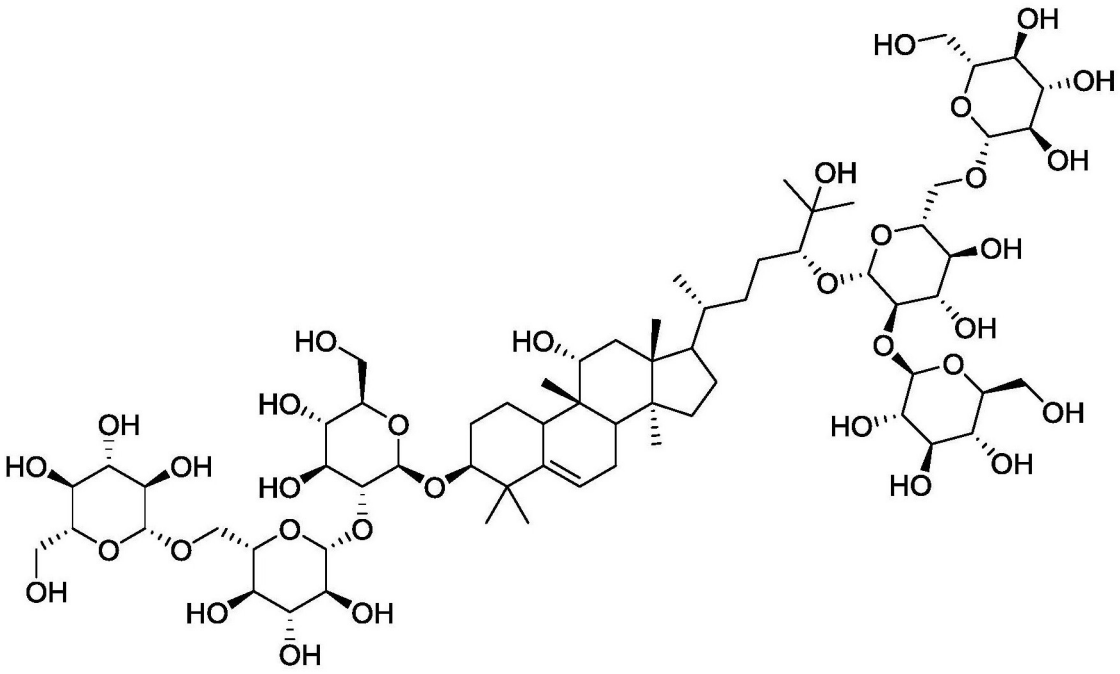


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[0227]

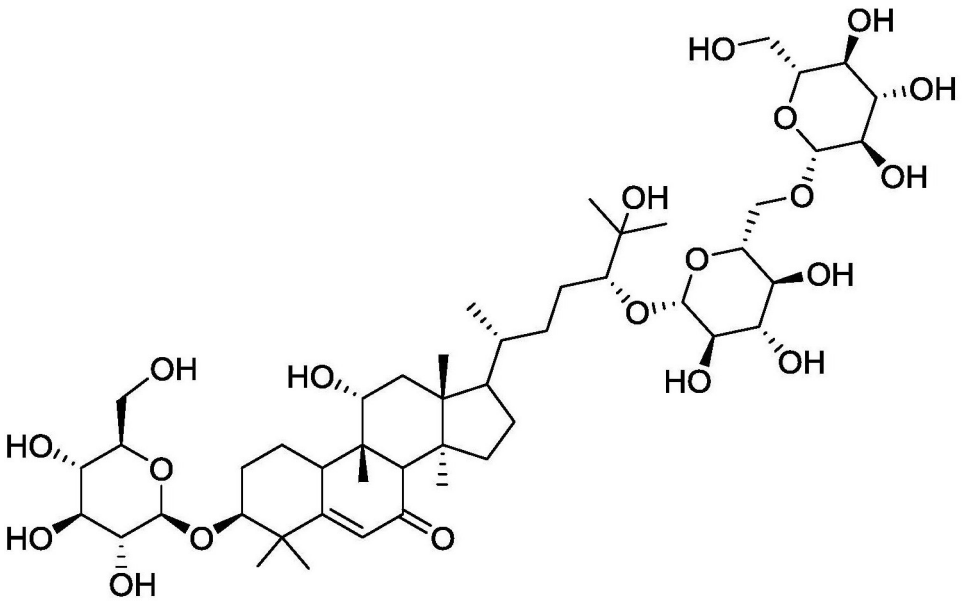


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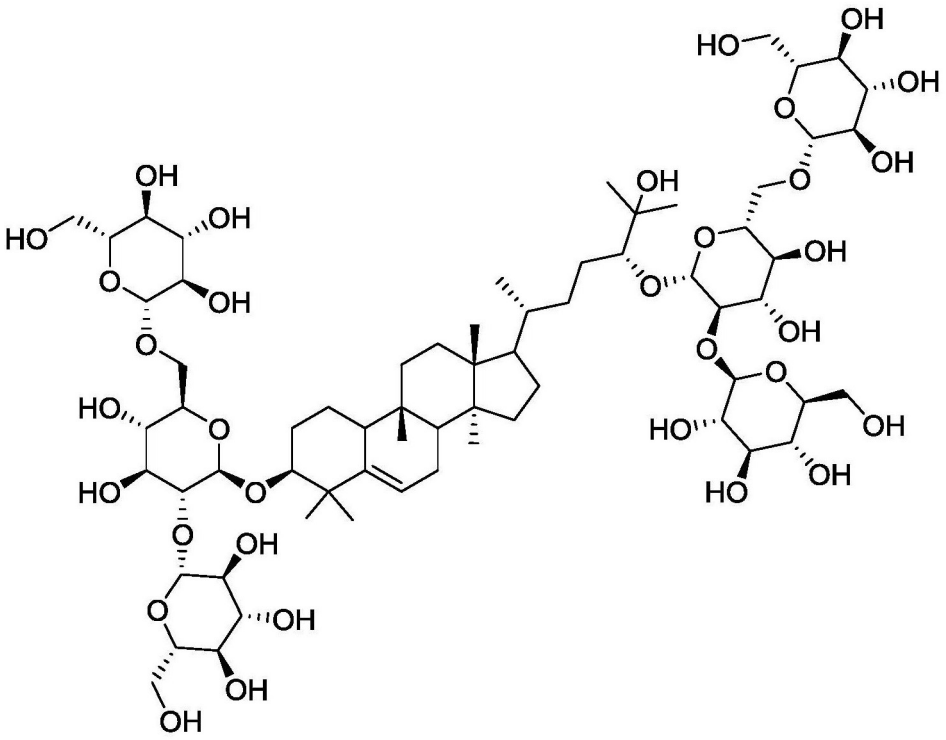


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[0228]

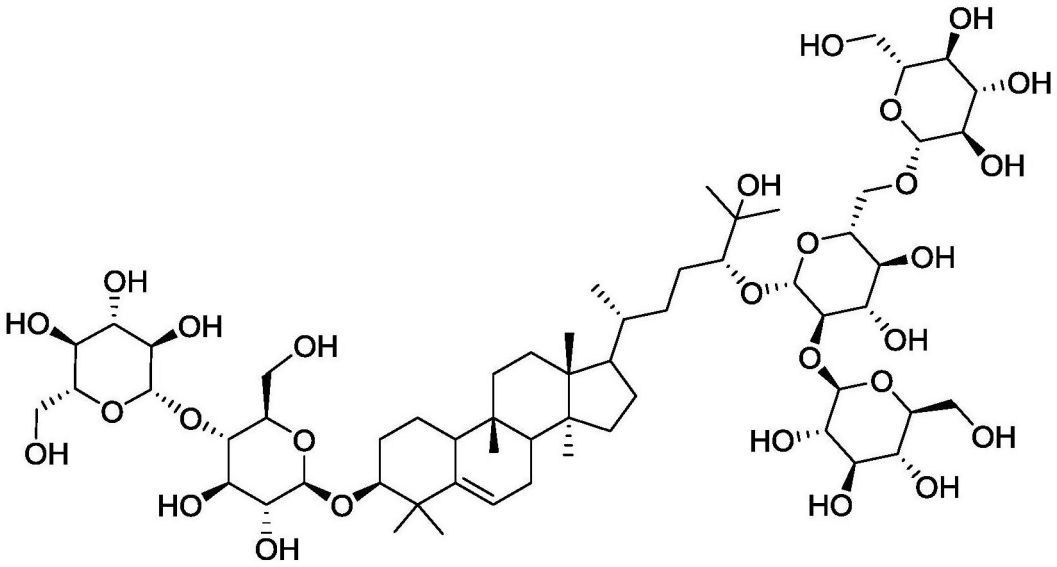


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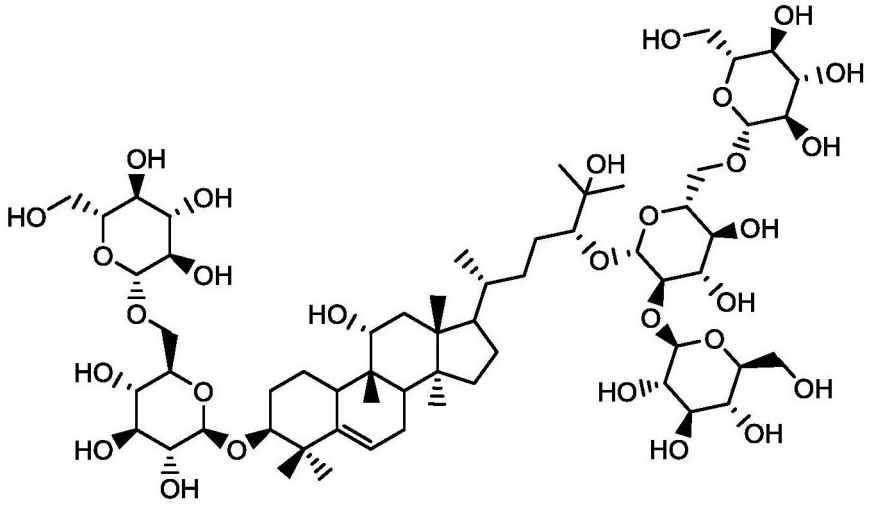


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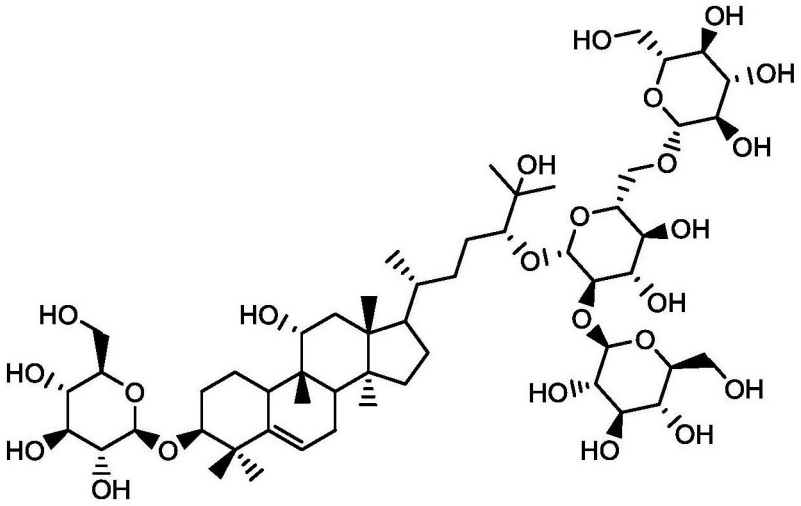
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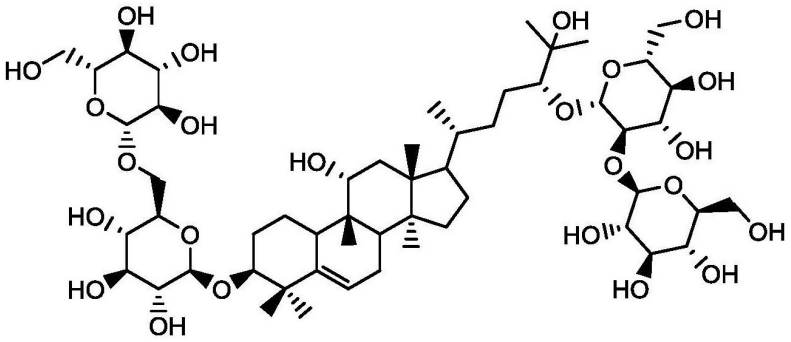
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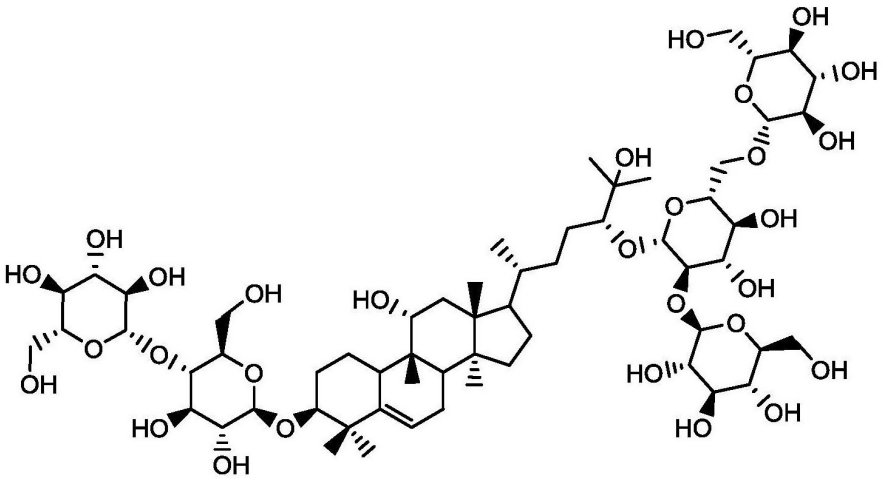
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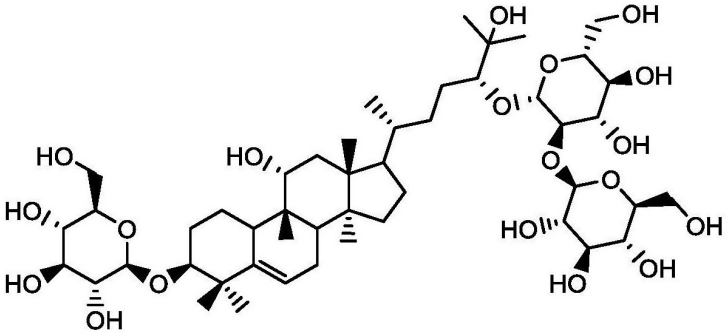


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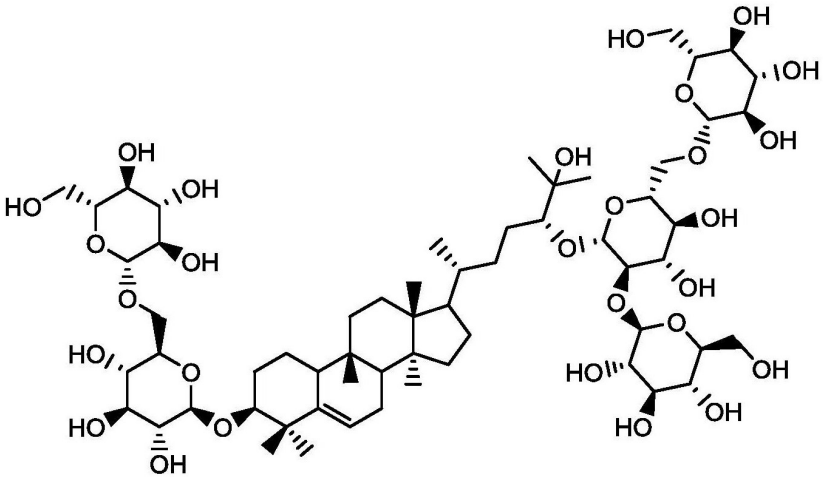


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[0230]

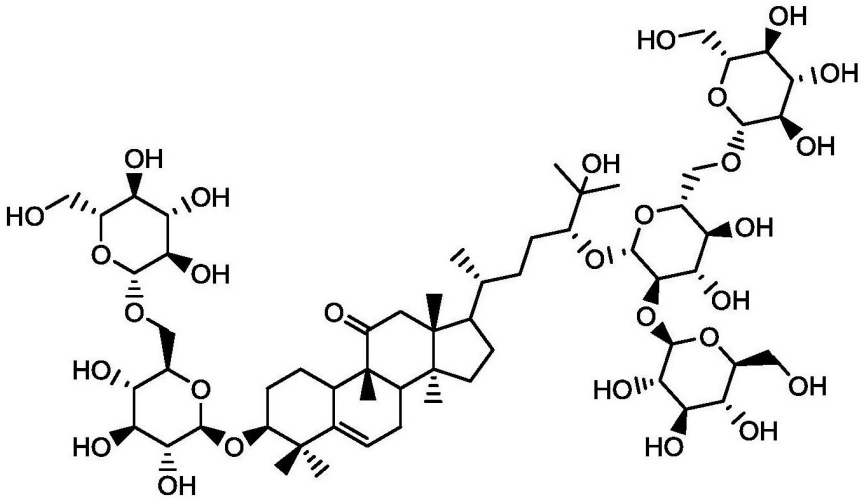


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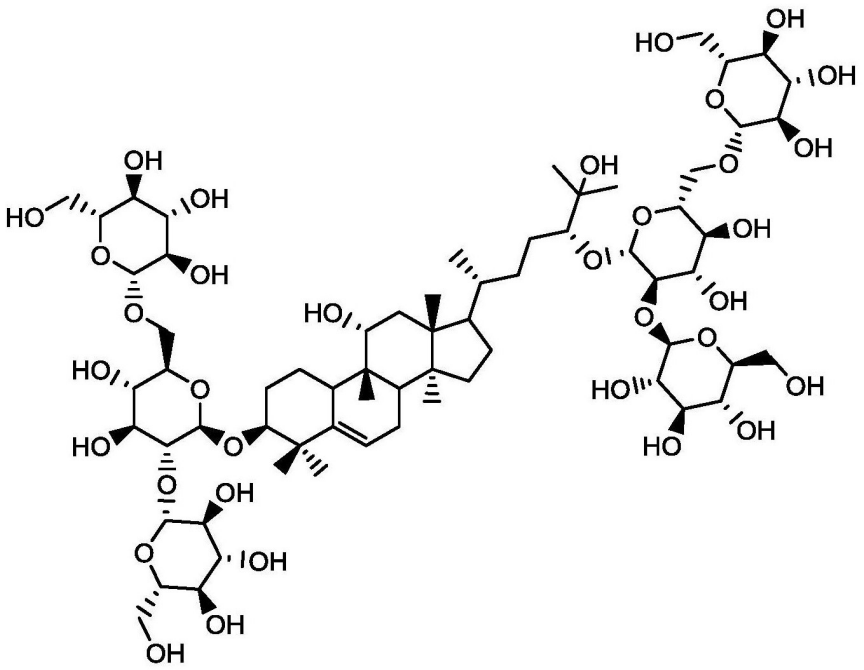


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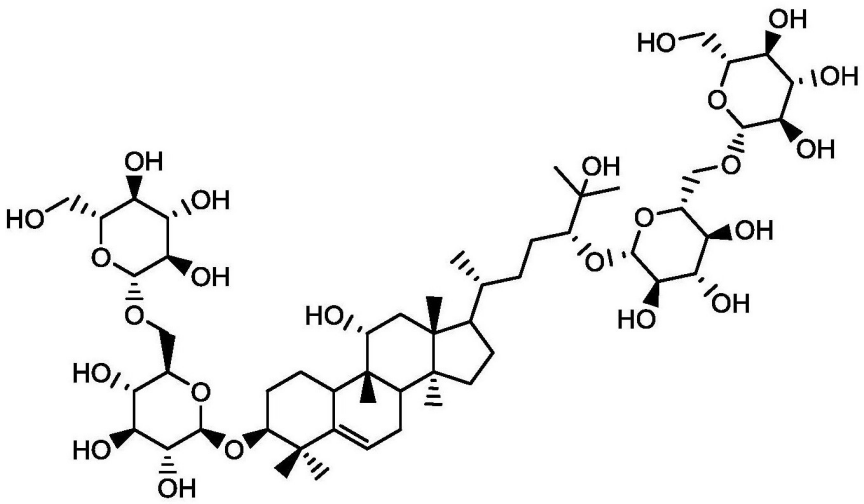
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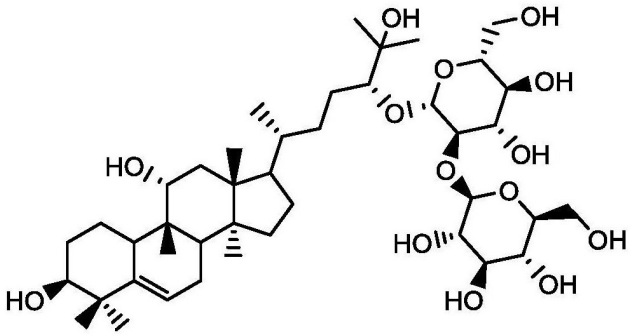


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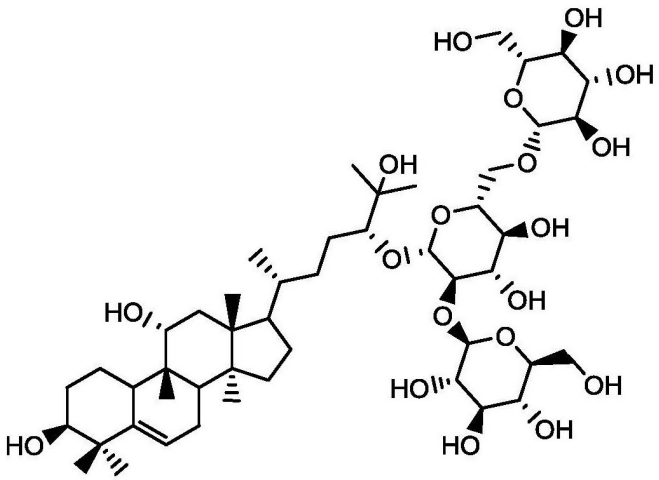


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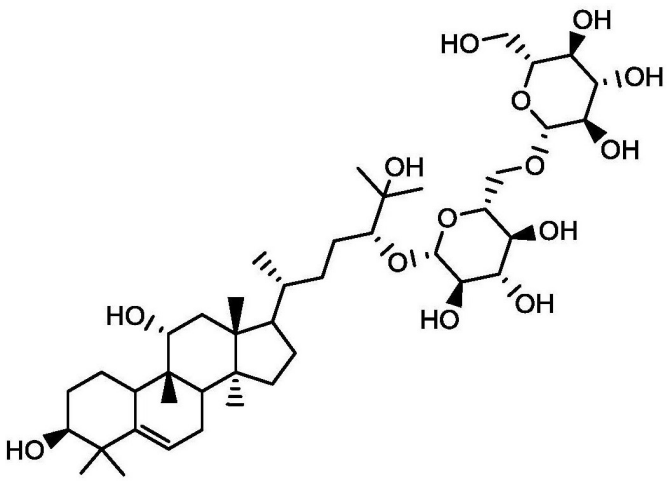
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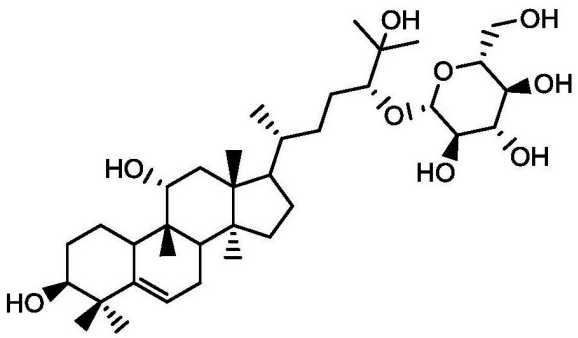
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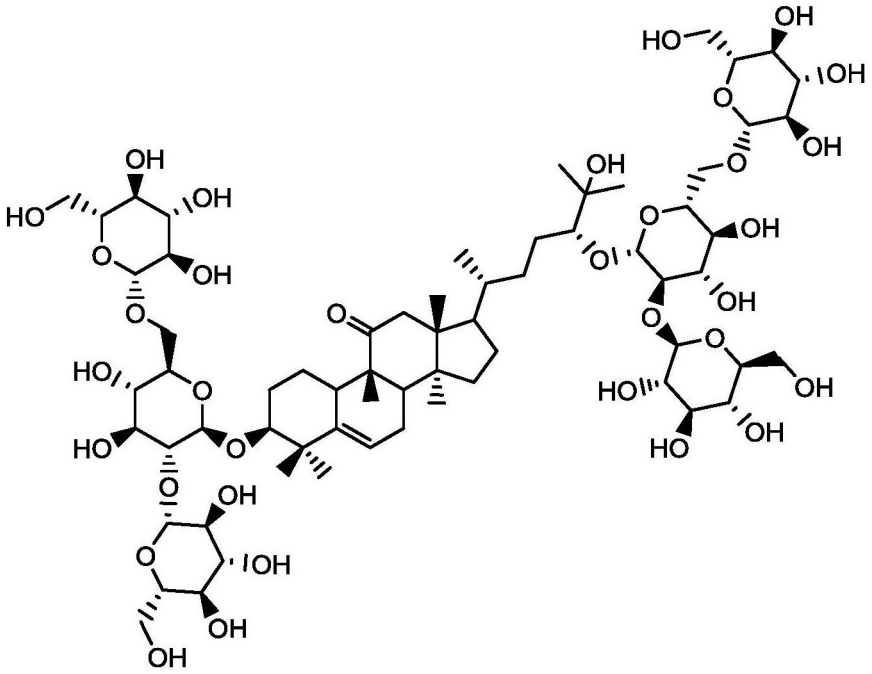

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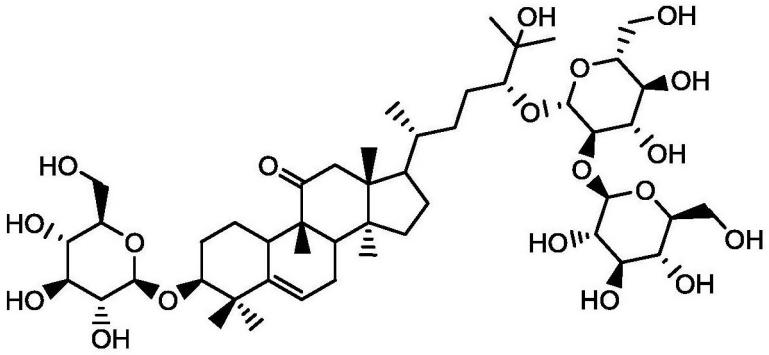

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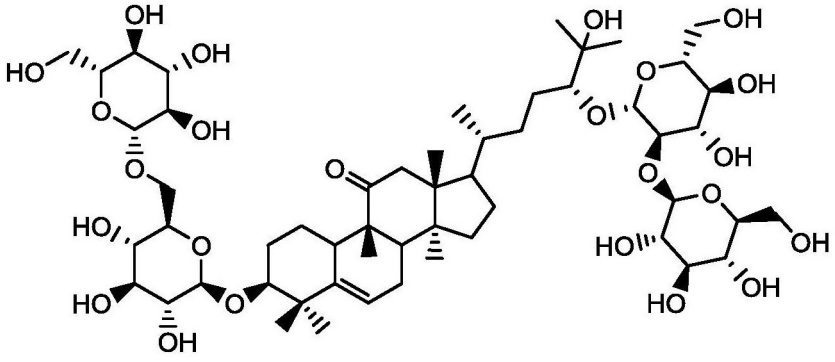
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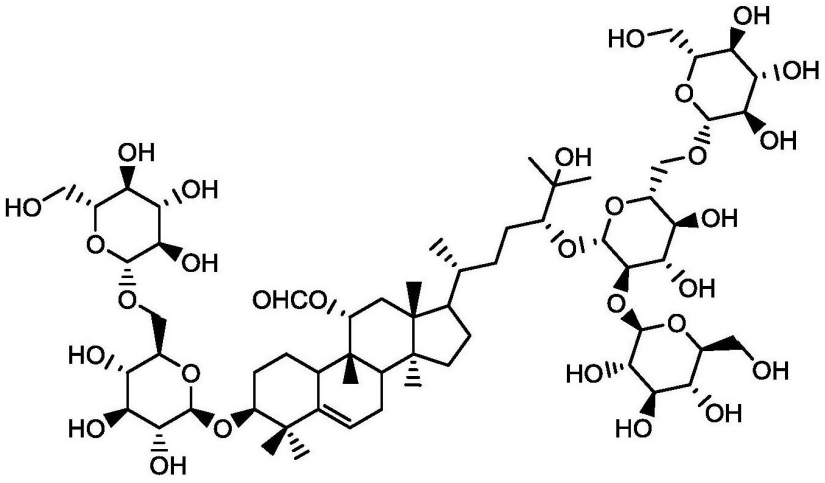
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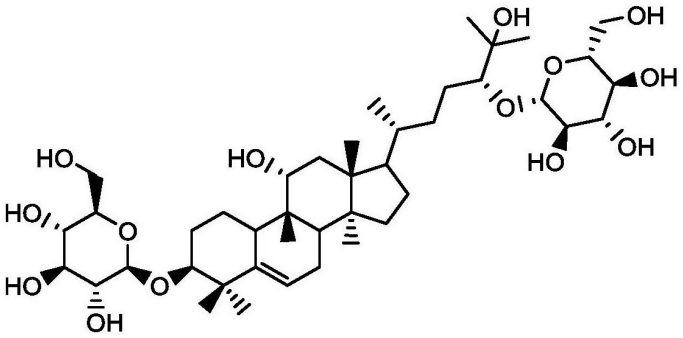
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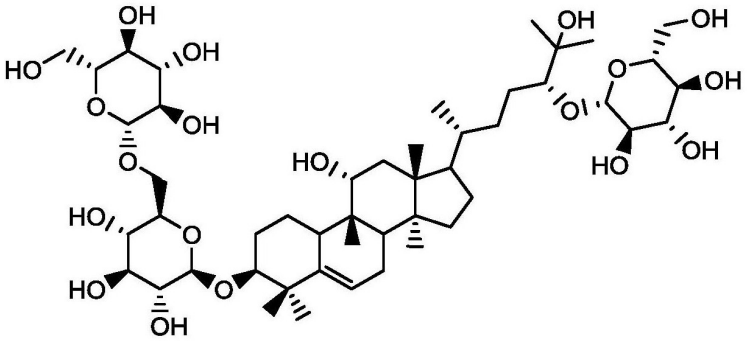


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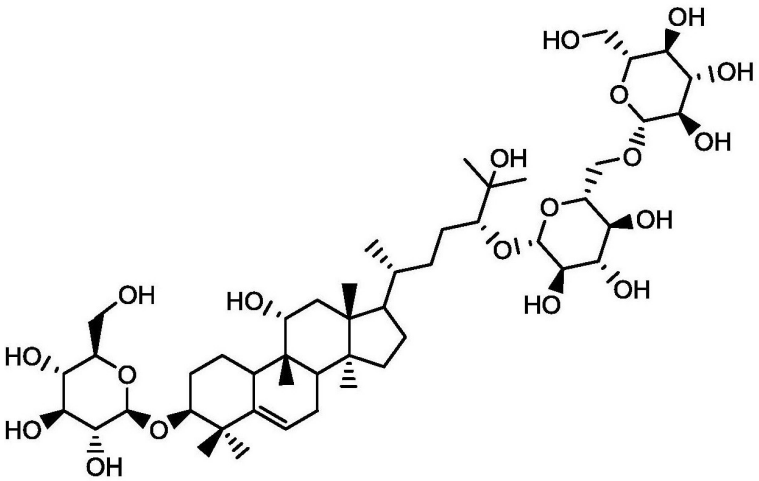


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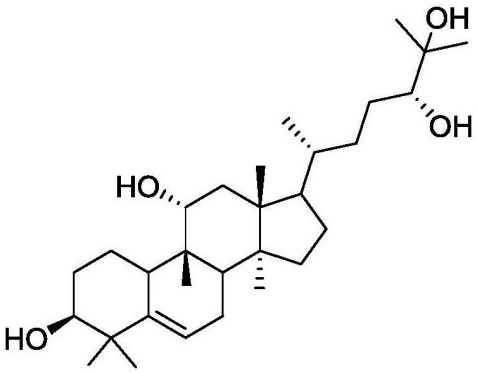
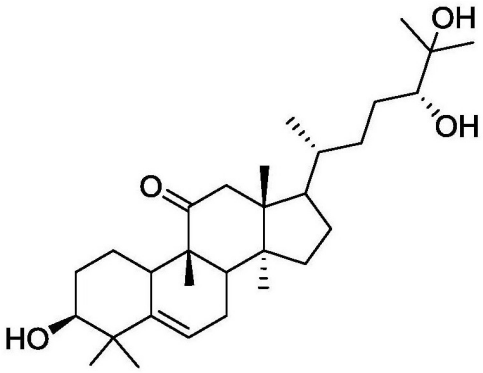
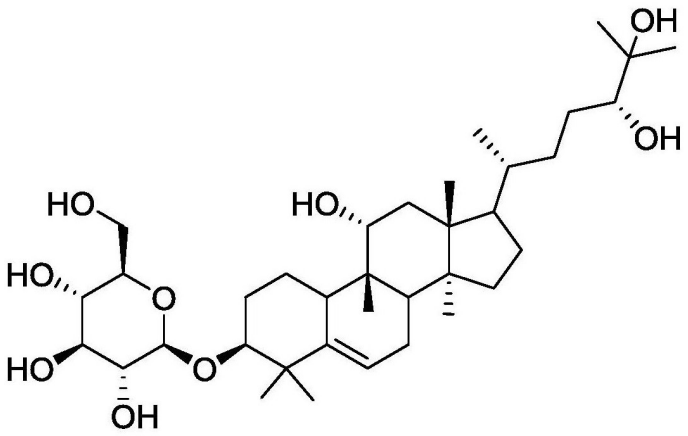
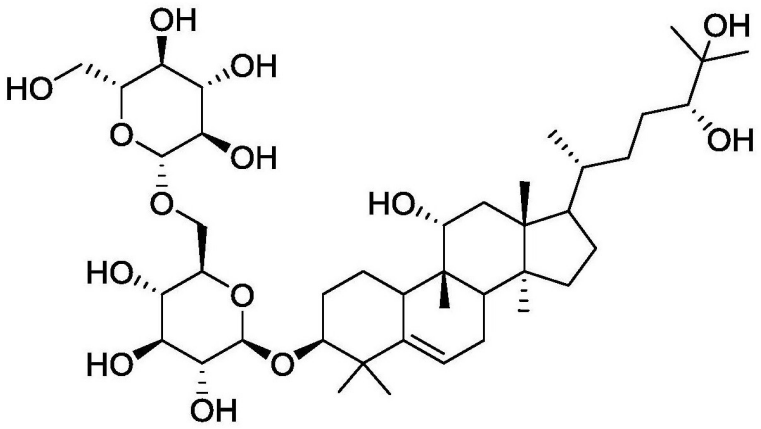
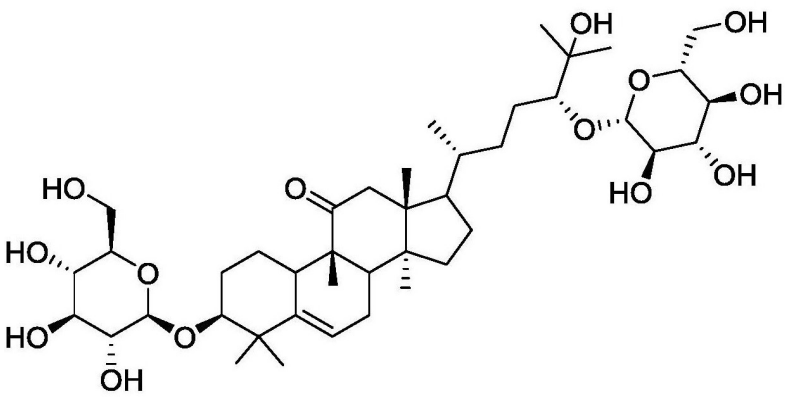
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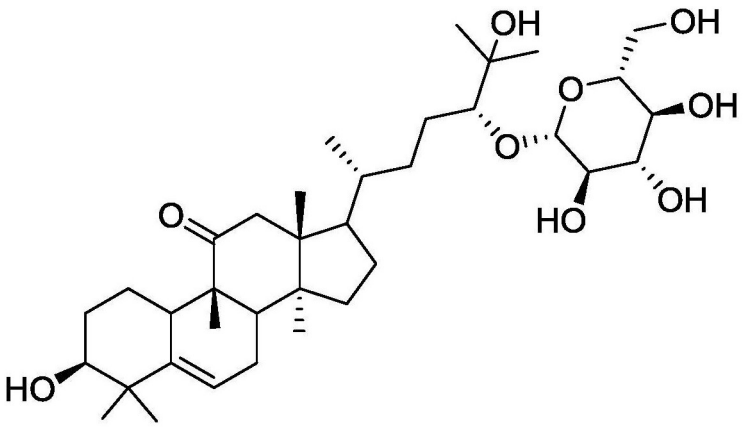
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[0235] 在一些实施方案中，式(I)不为：

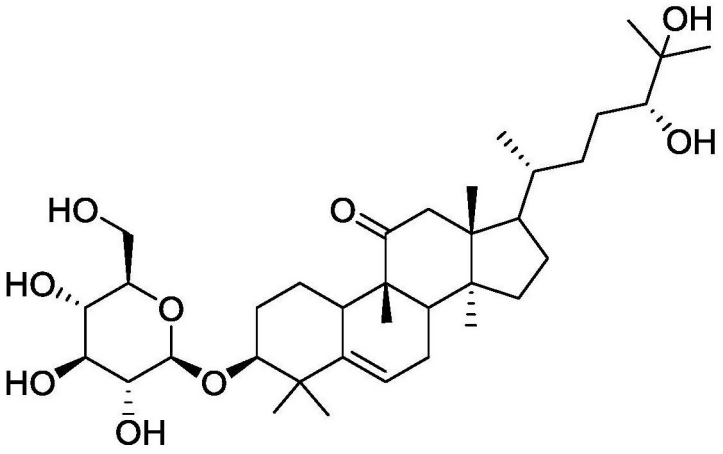
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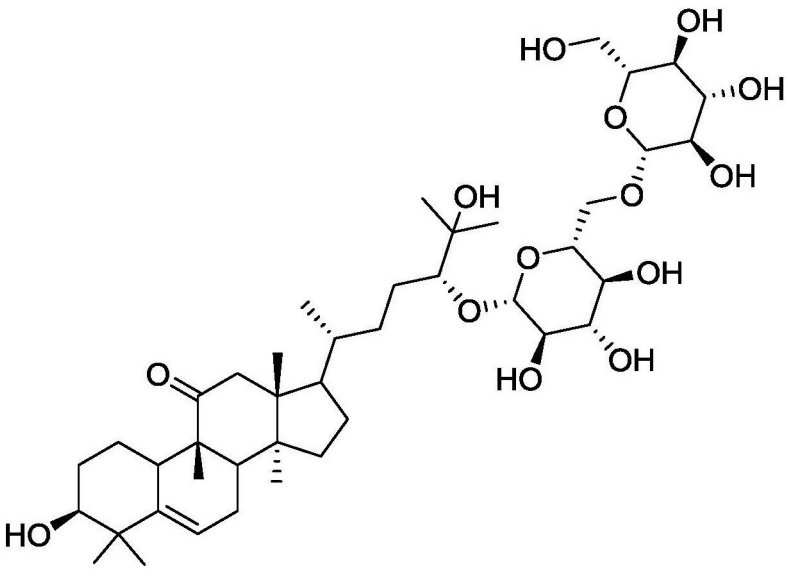
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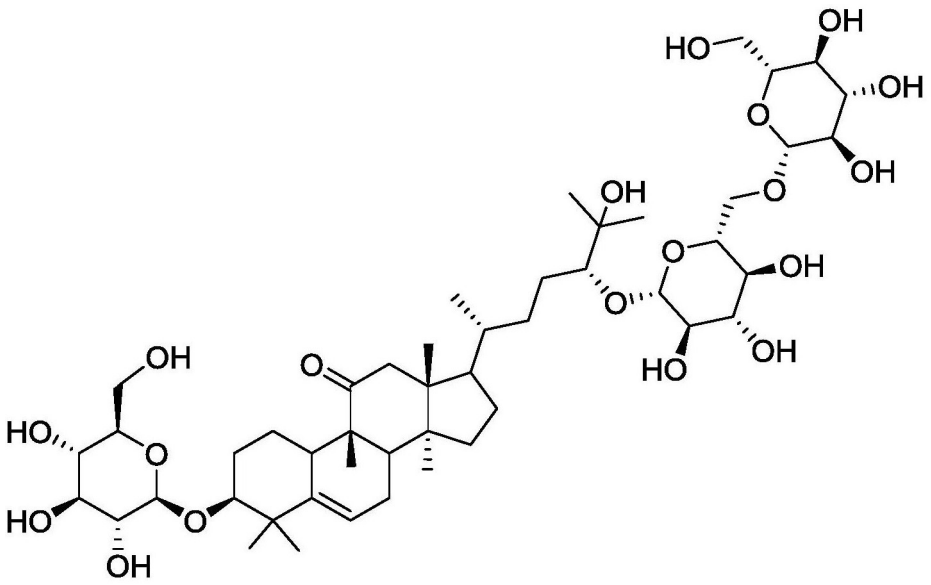


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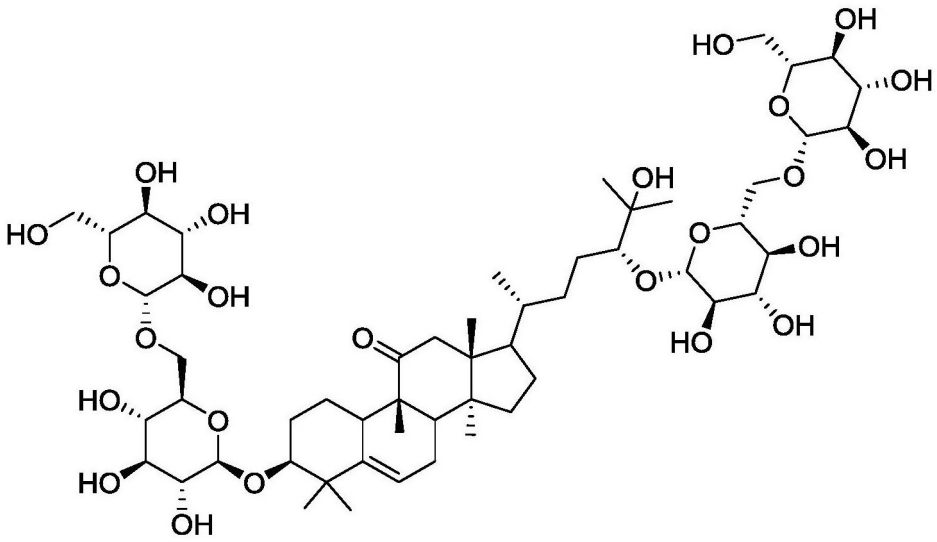


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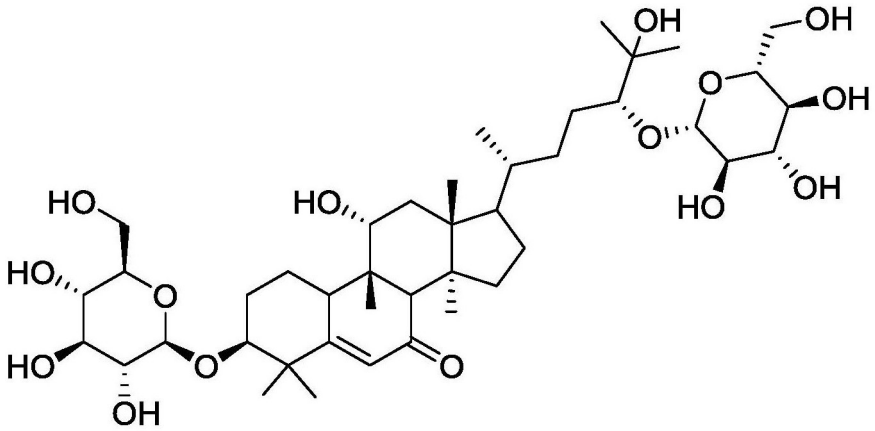
[0238]



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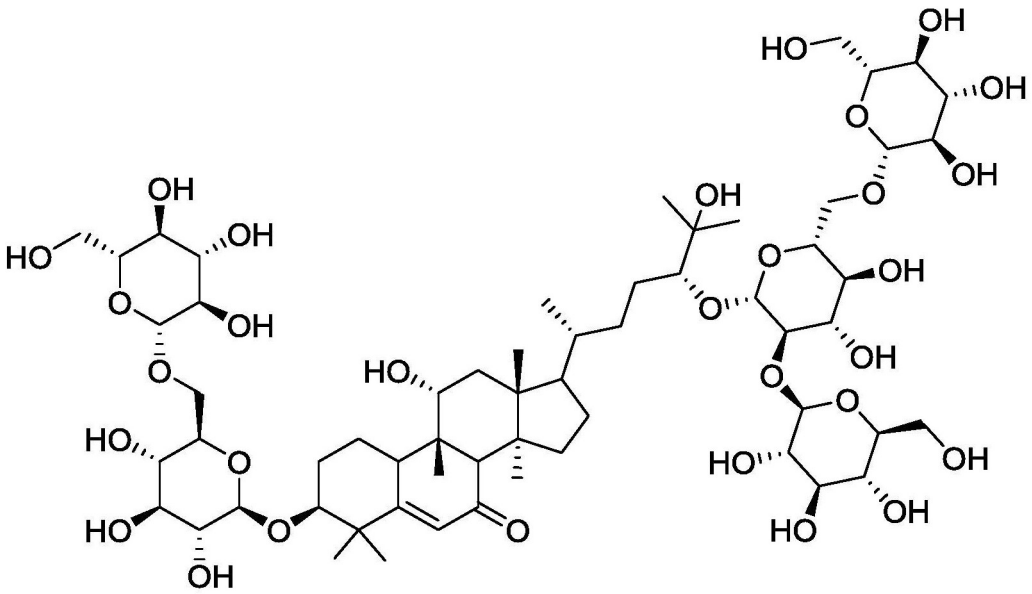


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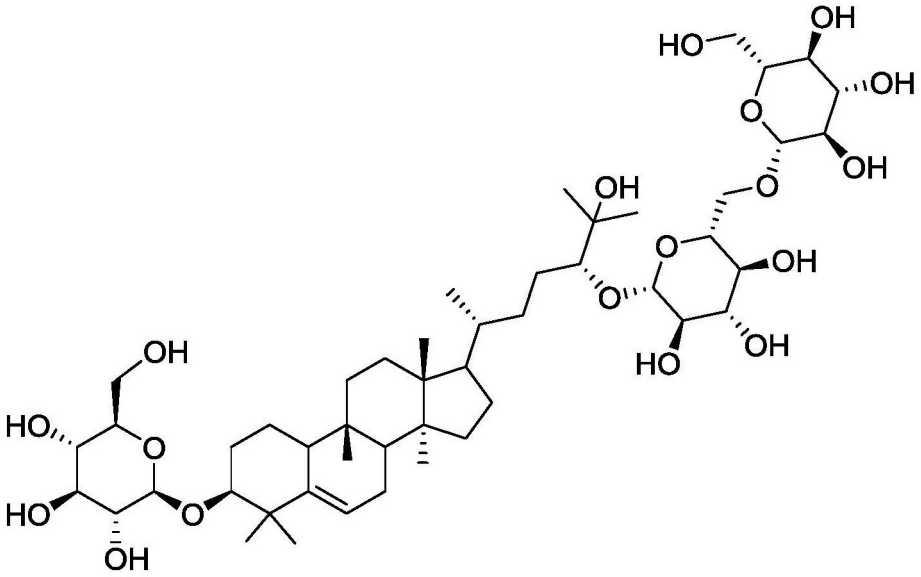


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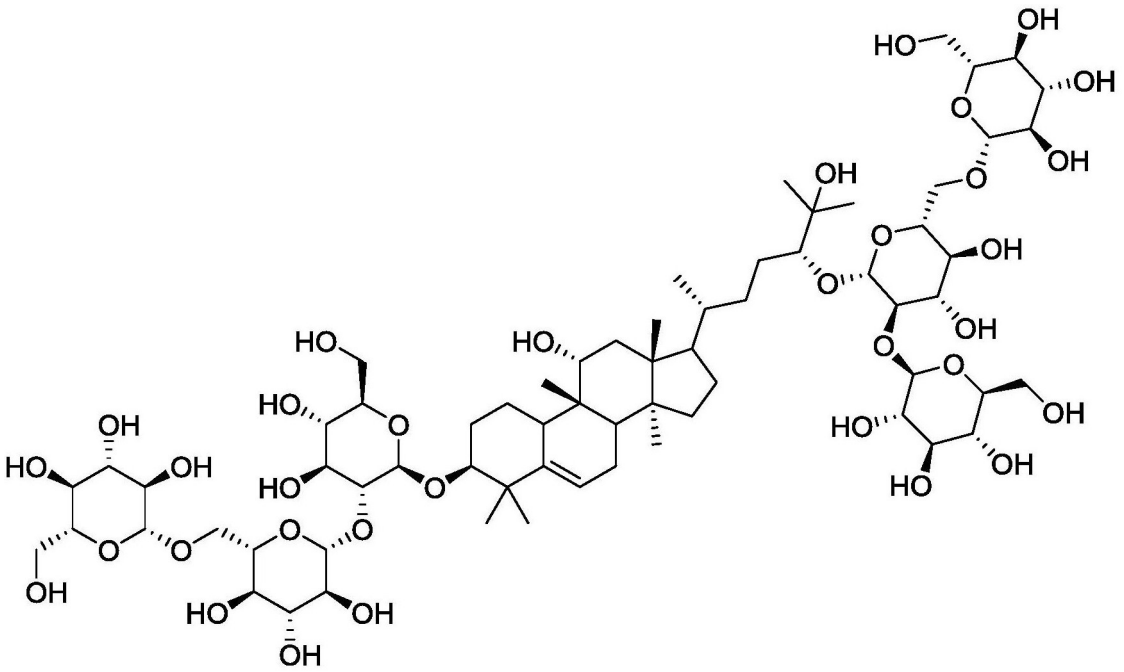


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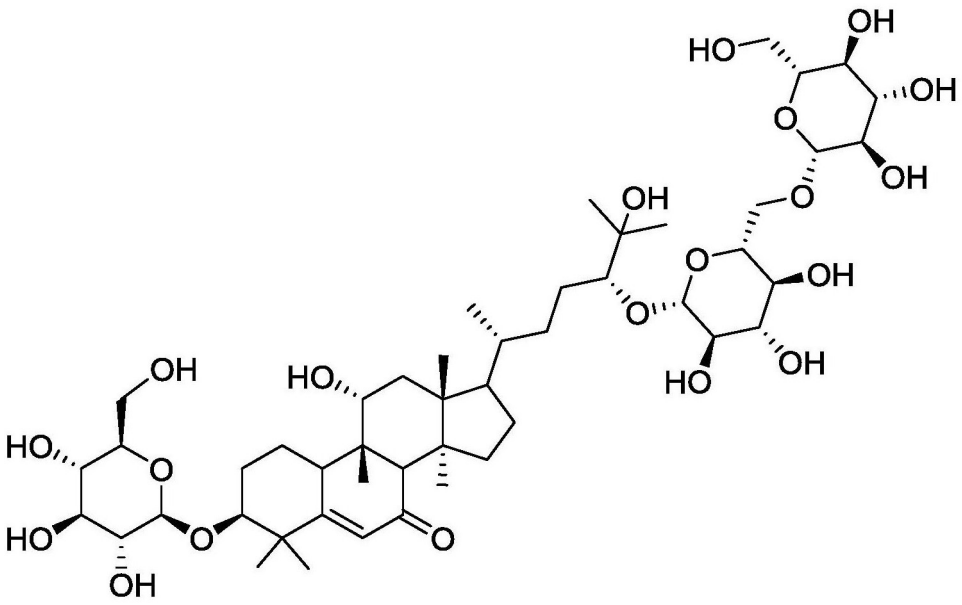


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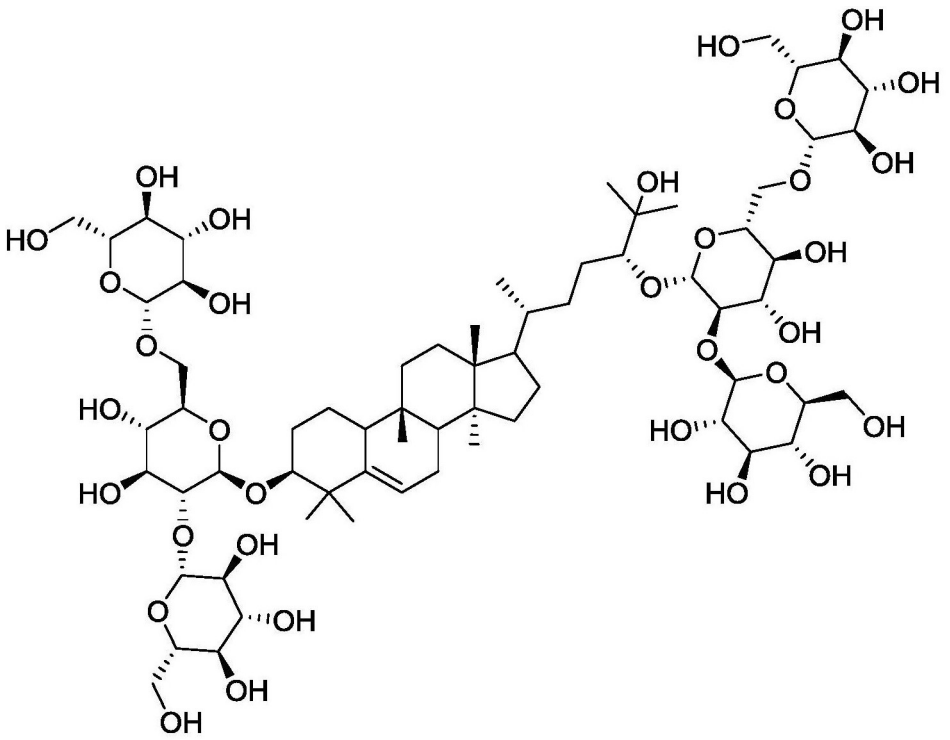


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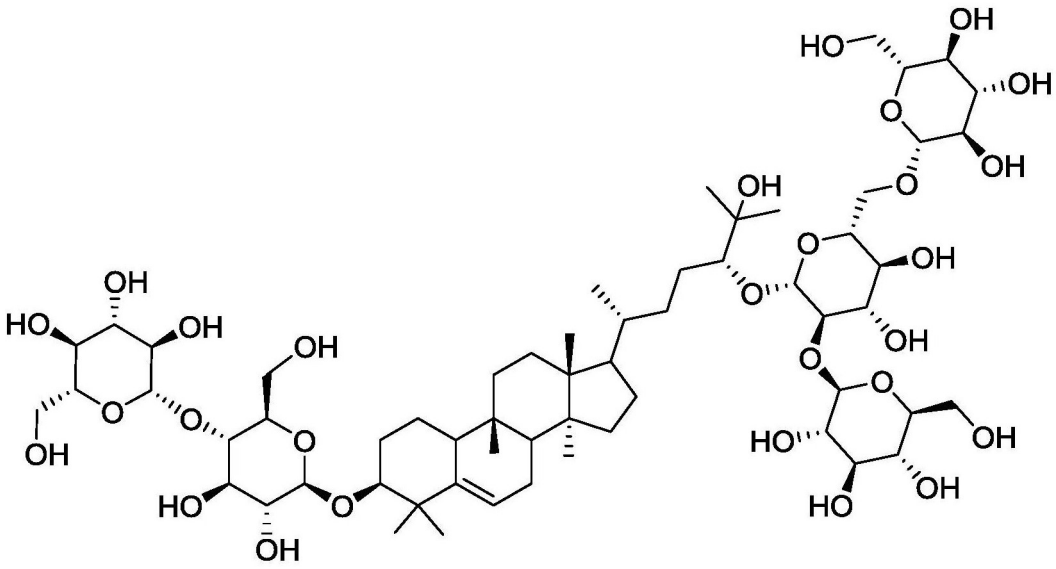


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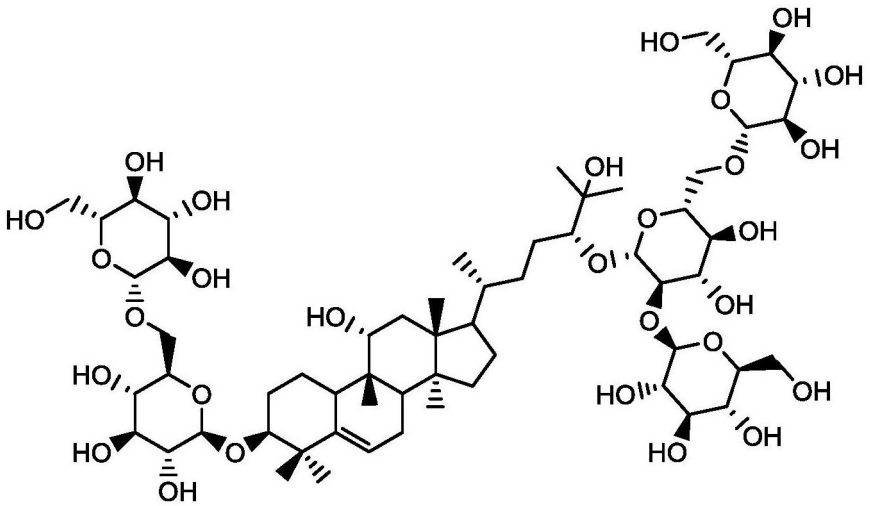


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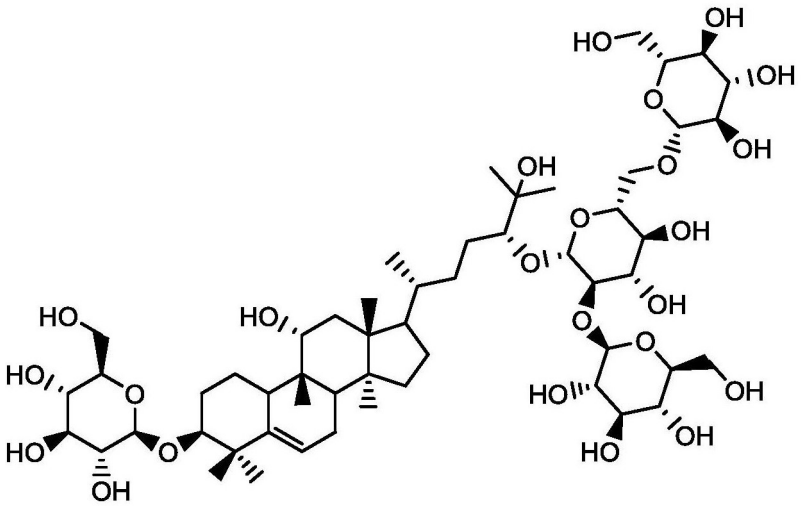


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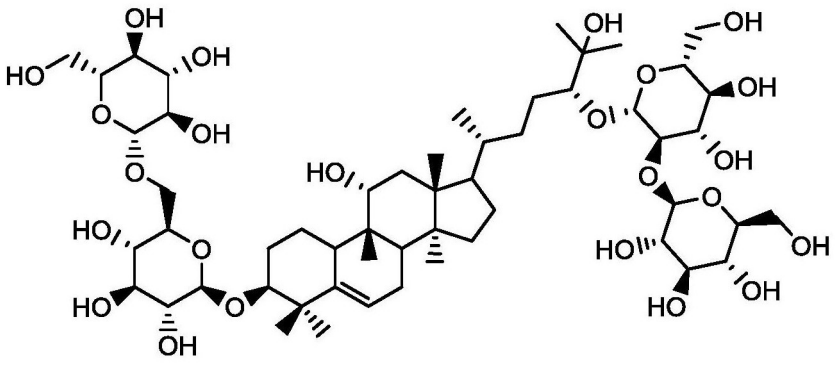
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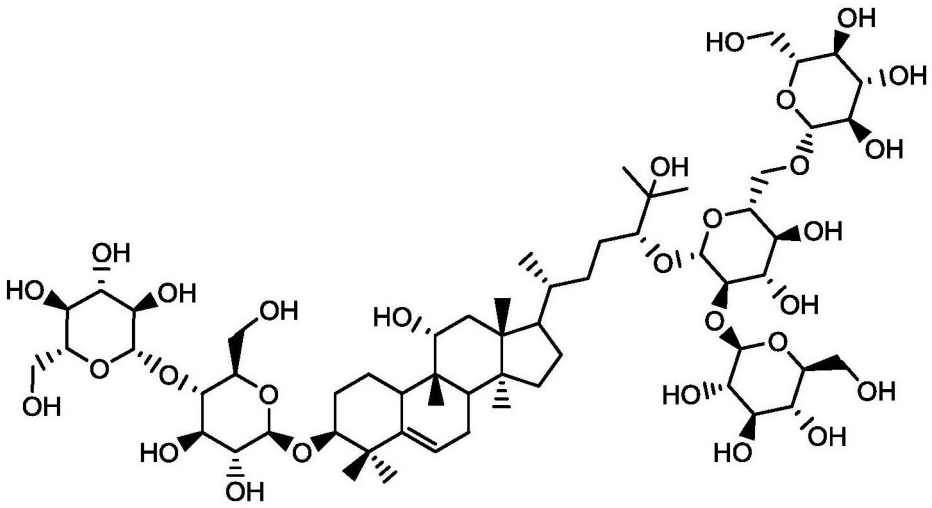


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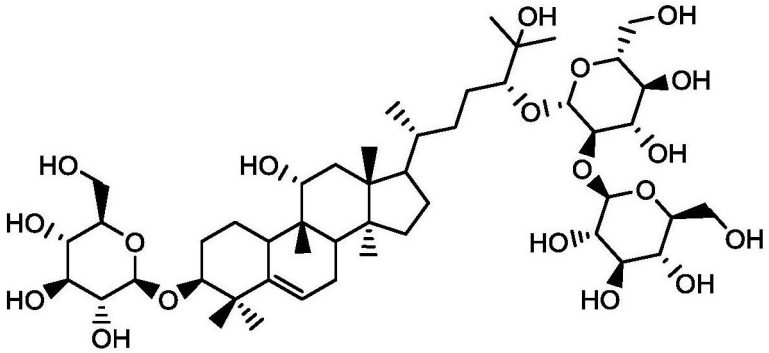


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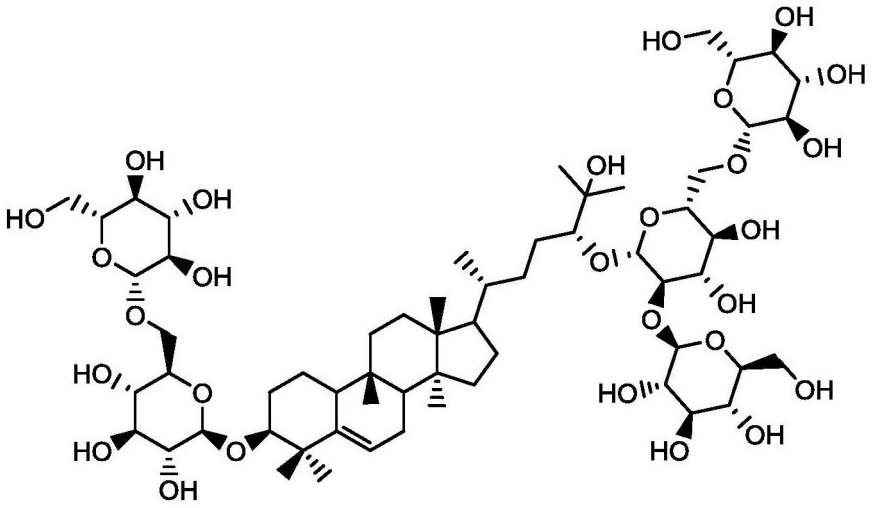
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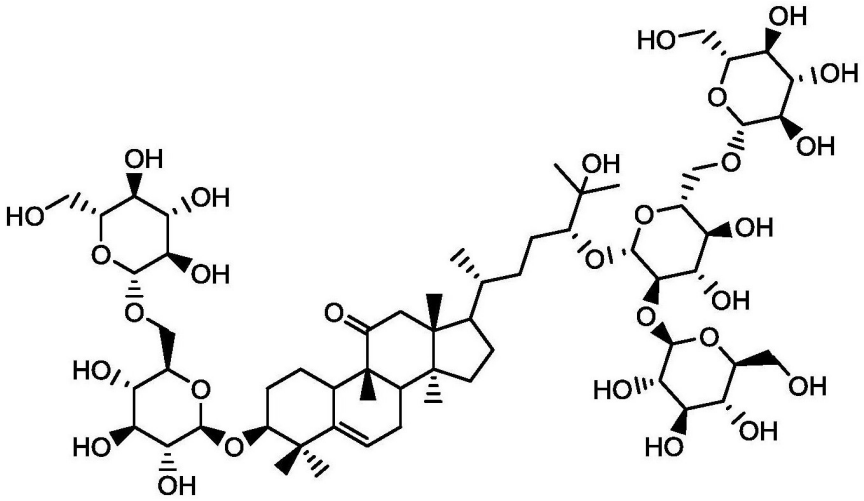


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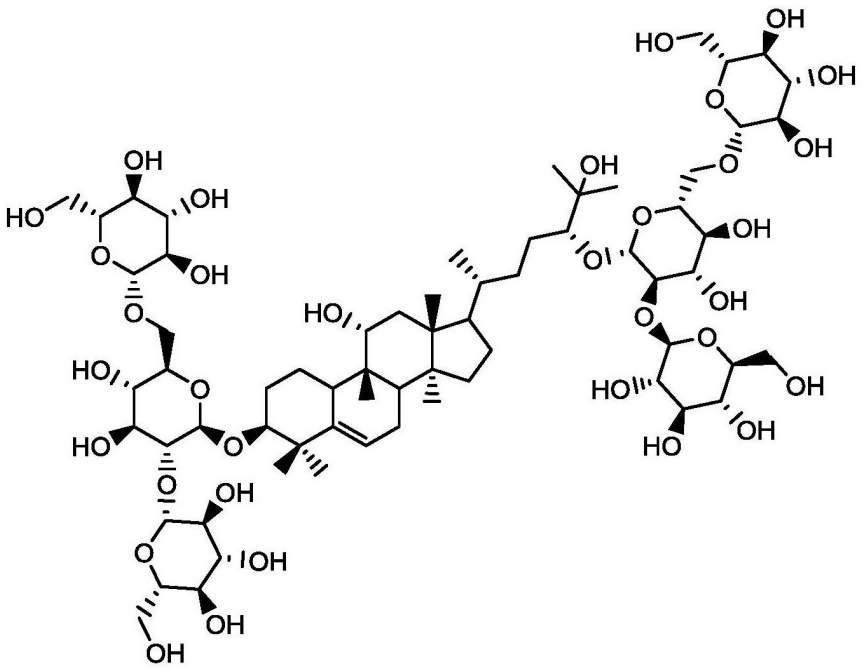


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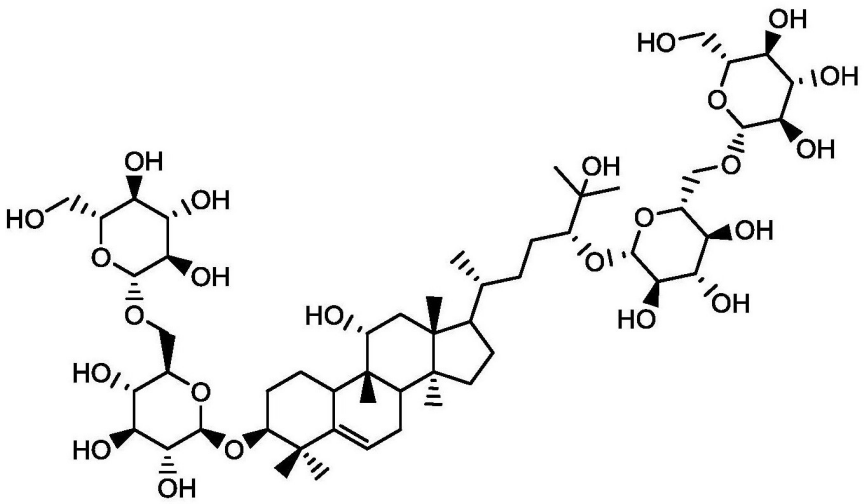
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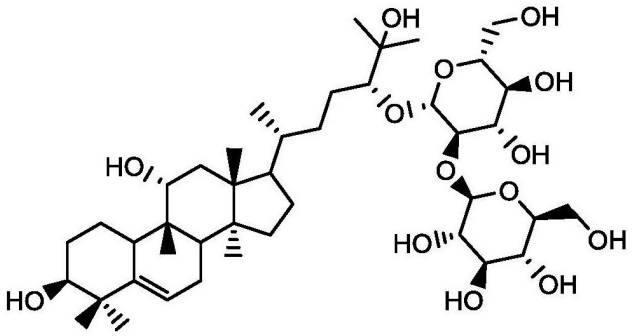


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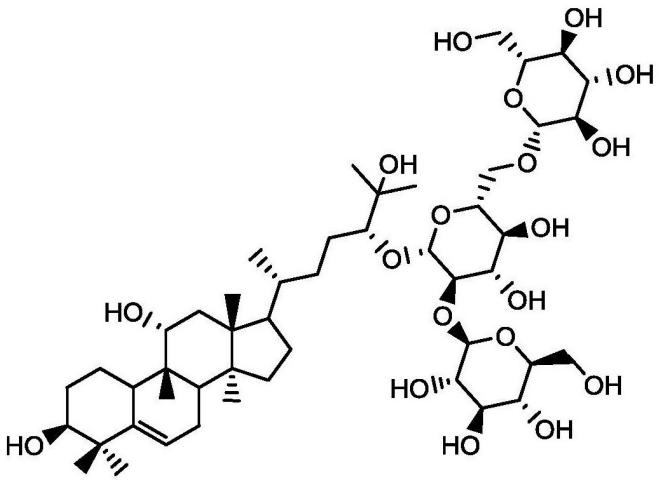


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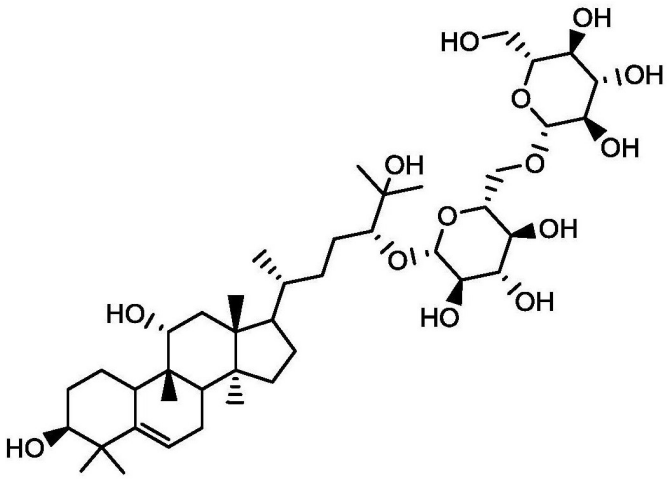
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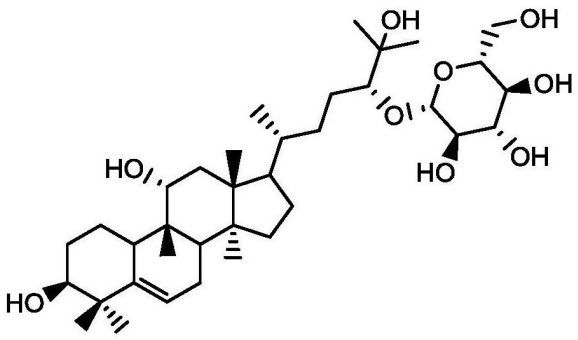
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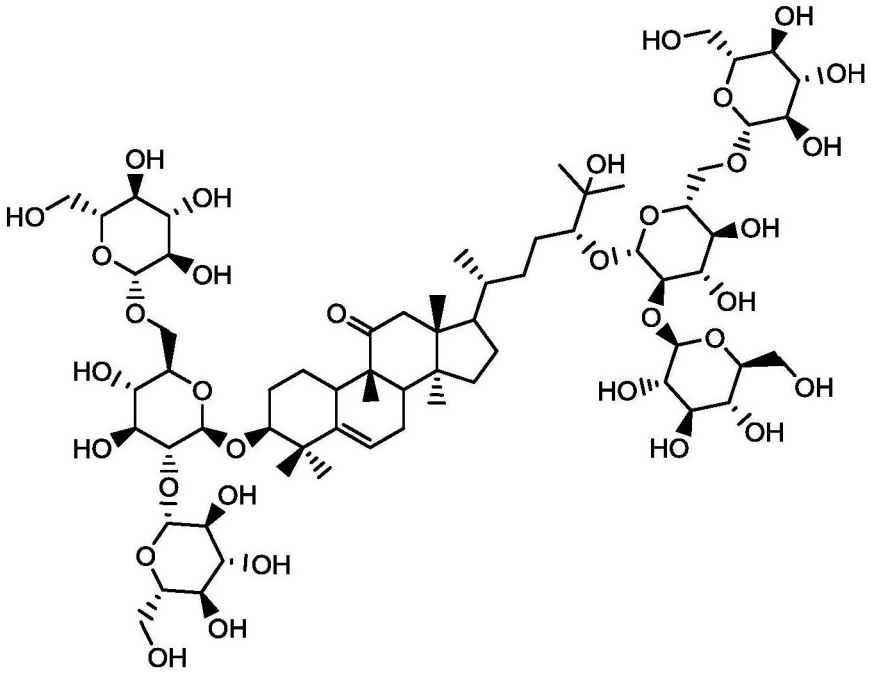


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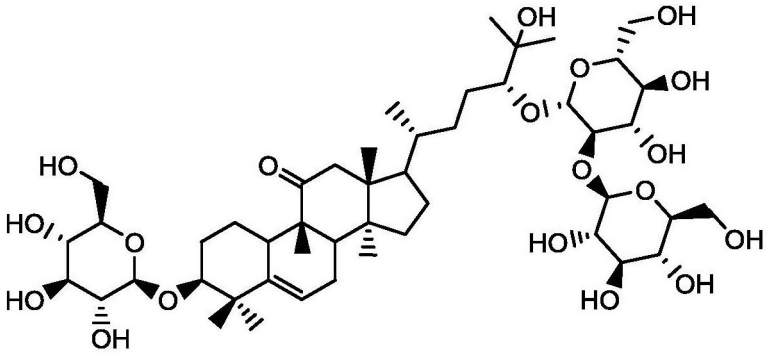


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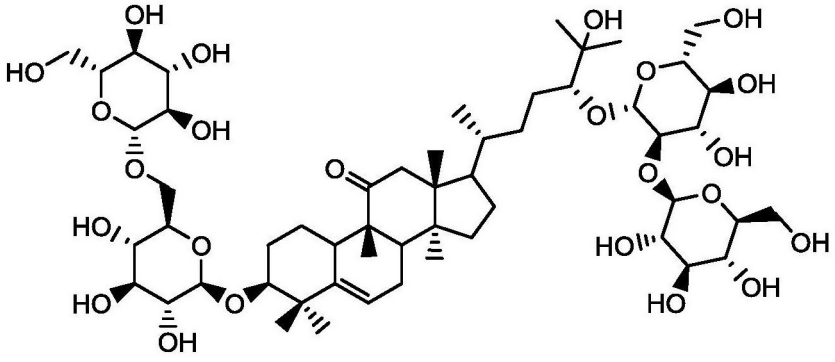
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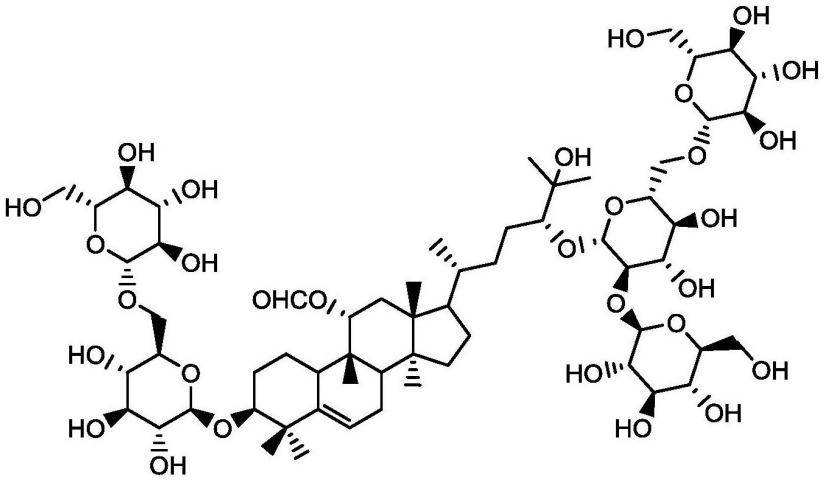
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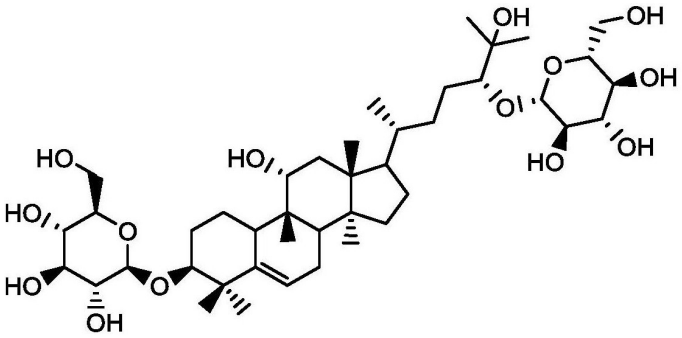
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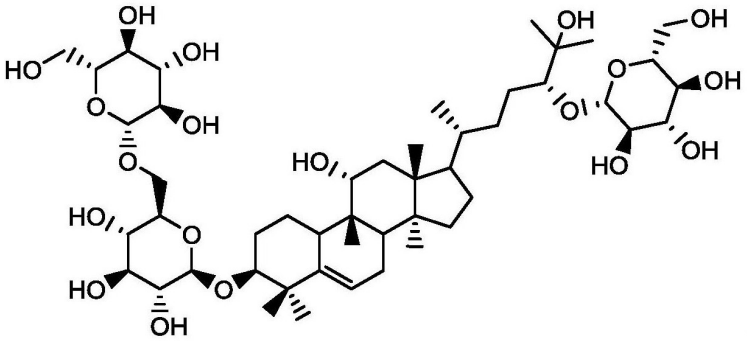


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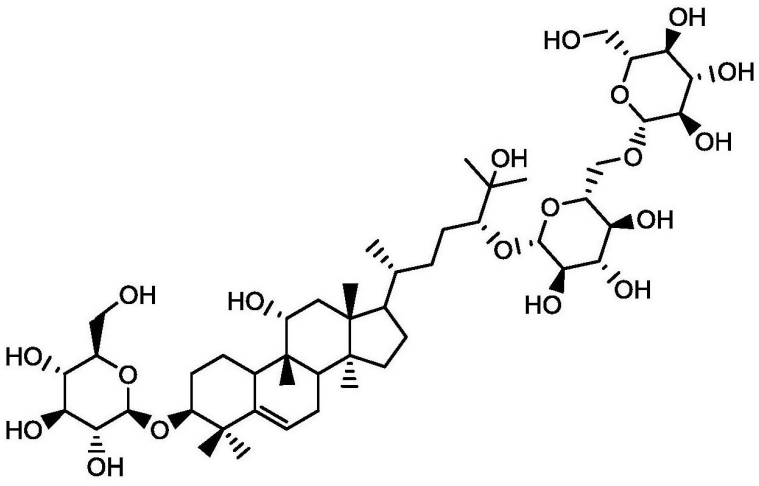


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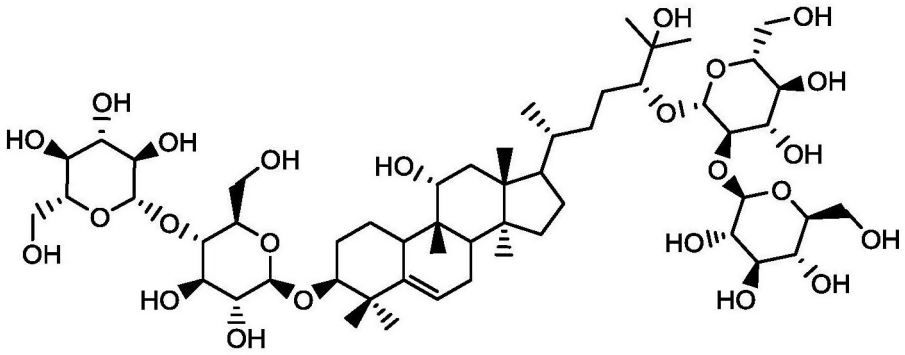


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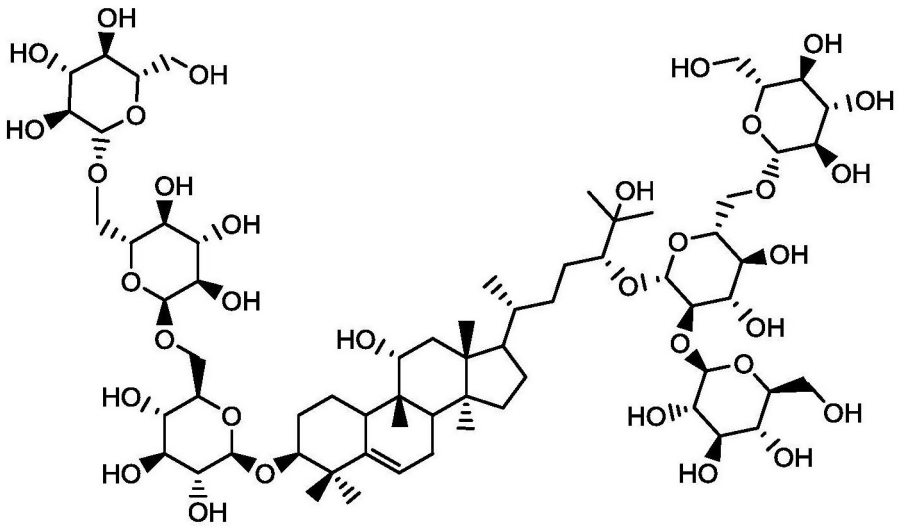


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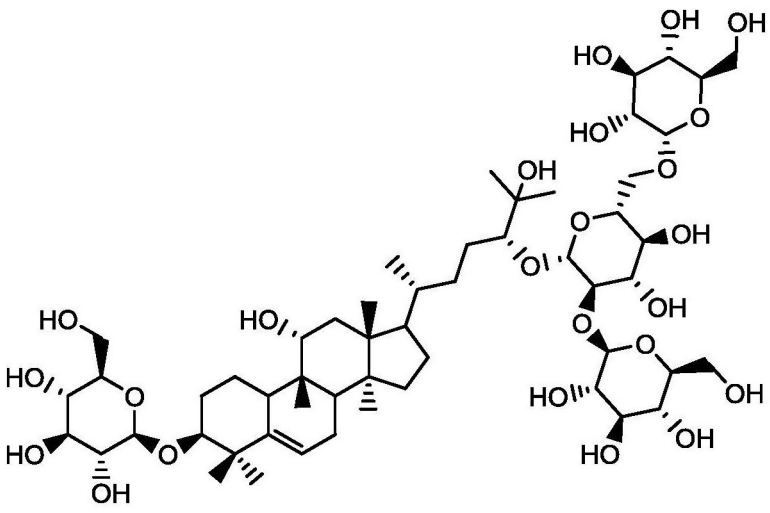
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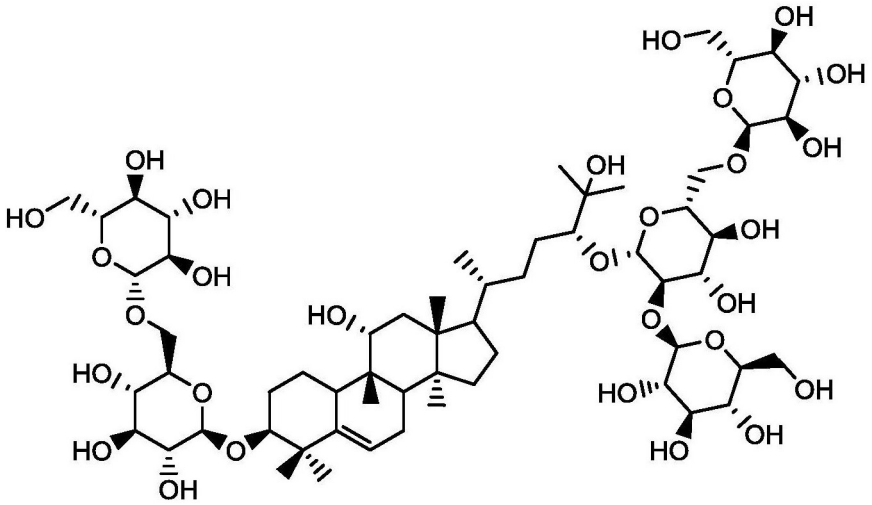


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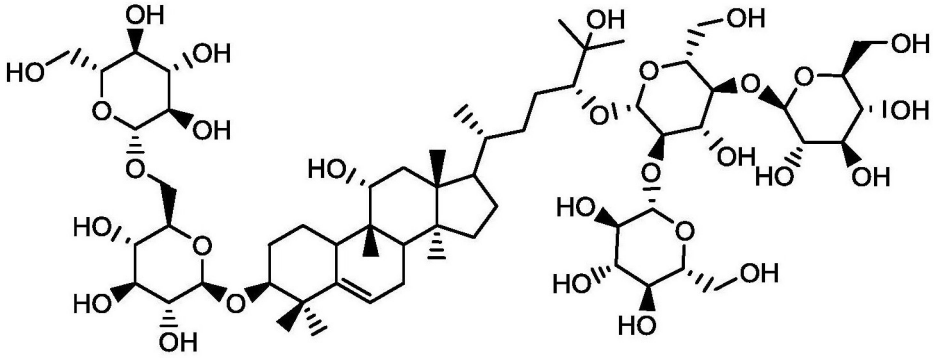


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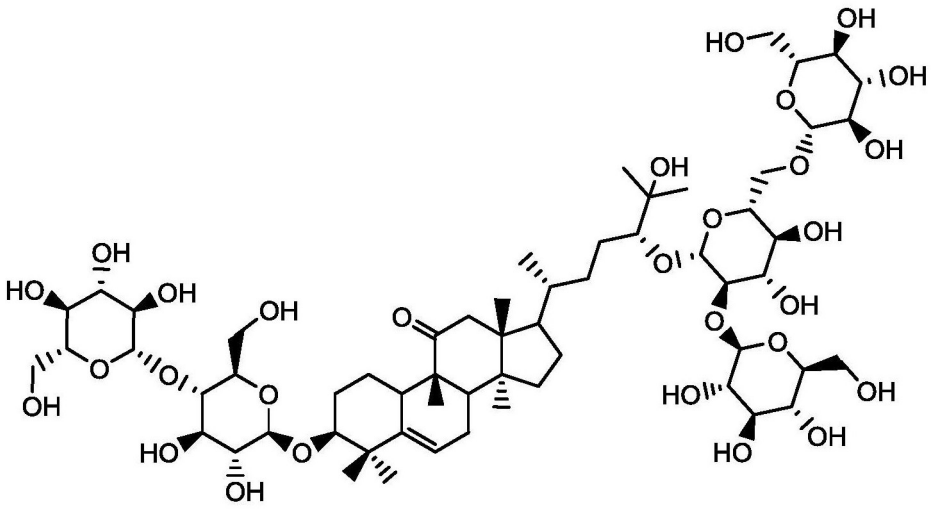
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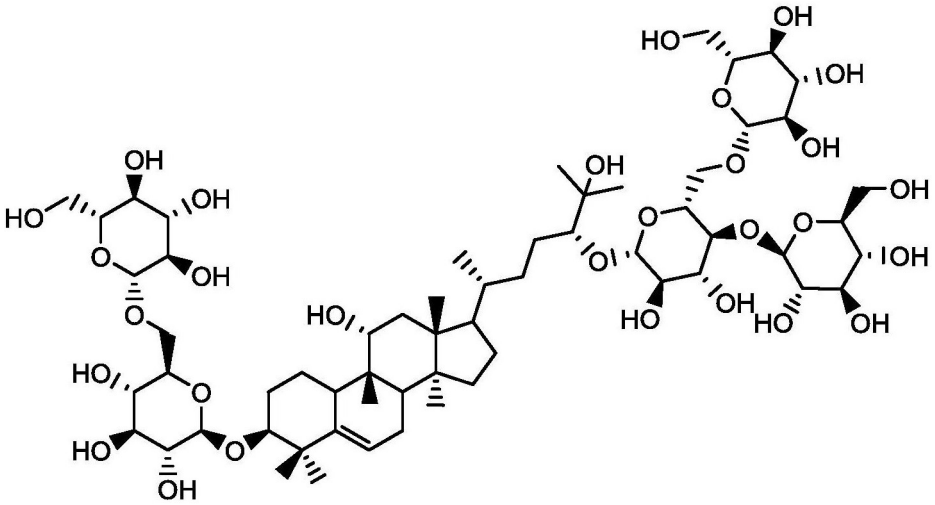


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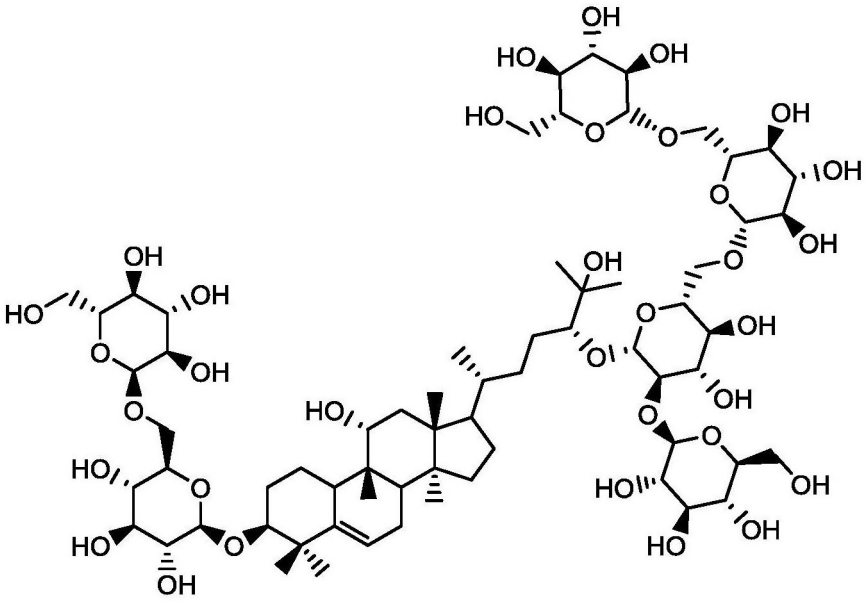


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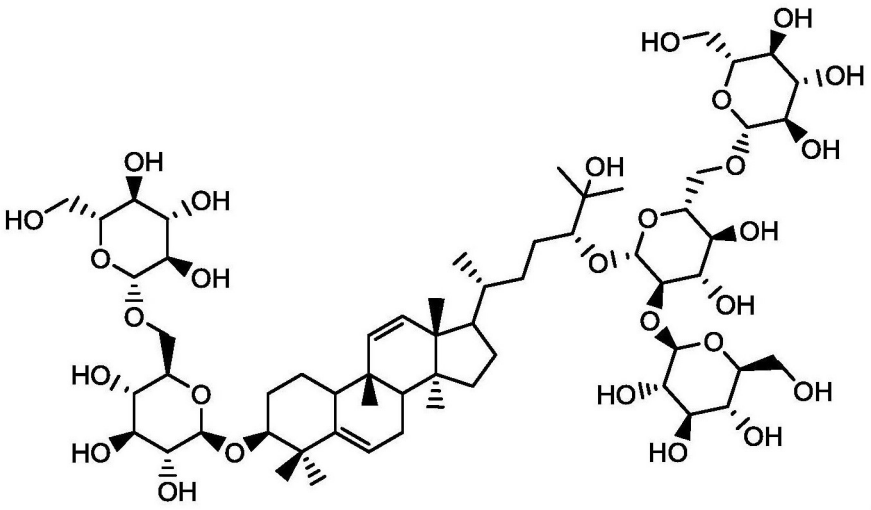
[0250]



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，和



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[0251] 在一些实施方案中，式(I)的化合物选自化合物1至化合物35(在下文描述)之一或其盐。在一些实施方案中，式(I)的化合物或其盐被分离，并且为固体形式。在一些实施方案

中，固体形式是无定形的。在其他实施方案中，固体形式是结晶的。在一些实施方案中，化合物为冻干物的形式。在一些实施方案中，冻干物形式的分离的化合物为化合物1至化合物35中的一种或多种，或其盐。

[0252] 在一些实施方案中，式(I)的化合物为化合物1。在一些实施方案中，式(I)的化合物为化合物2。在一些实施方案中，式(I)的化合物为化合物3。在一些实施方案中，式(I)的化合物为化合物4。在一些实施方案中，式(I)的化合物为化合物5。在一些实施方案中，式(I)的化合物为化合物6。在一些实施方案中，式(I)的化合物为化合物7。在一些实施方案中，式(I)的化合物为化合物8。在一些实施方案中，式(I)的化合物为化合物9。在一些实施方案中，式(I)的化合物为化合物10。

[0253] 在一些实施方案中，式(I)的化合物为化合物11。在一些实施方案中，式(I)的化合物为化合物12。在一些实施方案中，式(I)的化合物为化合物13。在一些实施方案中，式(I)的化合物为化合物14。在一些实施方案中，式(I)的化合物为化合物15。在一些实施方案中，式(I)的化合物为化合物16。在一些实施方案中，式(I)的化合物为化合物17。在一些实施方案中，式(I)的化合物为化合物18。在一些实施方案中，式(I)的化合物为化合物19。在一些实施方案中，式(I)的化合物为化合物20。

[0254] 在一些实施方案中，式(I)的化合物为化合物21。在一些实施方案中，式(I)的化合物为化合物22。在一些实施方案中，式(I)的化合物为化合物23。在一些实施方案中，式(I)的化合物为化合物24。在一些实施方案中，式(I)的化合物为化合物25。在一些实施方案中，式(I)的化合物为化合物26。在一些实施方案中，式(I)的化合物为化合物27。在一些实施方案中，式(I)的化合物为化合物28。在一些实施方案中，式(I)的化合物为化合物29。在一些实施方案中，式(I)的化合物为化合物30。

[0255] 在一些实施方案中，式(I)的化合物为化合物31。在一些实施方案中，式(I)的化合物为化合物32。在一些实施方案中，式(I)的化合物为化合物33。在一些实施方案中，式(I)的化合物为化合物34。在一些实施方案中，式(I)的化合物为化合物35。

[0256] 当本文公开的化合物具有至少一个手性中心时，它们可以作为单独的对映异构体和非对映异构体存在，或者作为此类异构体的混合物(包括外消旋物)存在。通过应用本领域从业者所熟知的各种方法来实现单独异构体的分离或者单独异构体的选择性合成。除非另外指明(例如，在手性中心的立体化学明确示出的情况下)，所有的此类异构体及其混合物包含在本文公开的化合物的范围内。此外，本文公开的化合物可以以一种或多种晶型或无定形形式存在。除非另外指明，所有的此类形式包含在本文公开的化合物的范围内，包括任何多态形式。另外，一些本文公开的化合物可以与水形成溶剂化物(即，水合物)或者与常用有机溶剂形成溶剂化物。除非另外指明，此类溶剂化物包含在本文公开的化合物的范围内。

[0257] 技术人员将认识到，本文描述的一些结构可以是化合物的共振形式或互变异构体，其可以由其他的化学结构清楚地表示，即使是在动力学上；技术人员认识到，此类结构可以仅表示此类化合物的非常小部分的样品。认为此类化合物在所描述的结构的范围内，尽管此类共振形式或互变异构体未在本文示出。

[0258] 所述化合物中可以存在同位素。化合物结构中示出的各个化学元素可以包括所述元素的任何同位素。例如，在化合物结构中，氢原子可以明确地公开，或者理解为存在于化

合物中。在氢原子可存在的化合物的任何位置，氢原子可以是氢的任何同位素，包括但不限于氢-1(氕)和氢-2(氘)。因此，本文提及化合物涵盖了所有可能的同位素形式，除非上下文中另外明确指明。在一些实施方案中，本文描述的化合物富集了一种或多种同位素(相对于所述同位素的天然存在率)。在一些实施方案中，本文描述的化合物富集了氘。例如，在一些实施方案中，本文描述的化合物中超过0.0312％的氢原子为氘。在各种实施方案中，本文描述的化合物中超过0.05％、0.08％或0.1％的氢原子为氘。

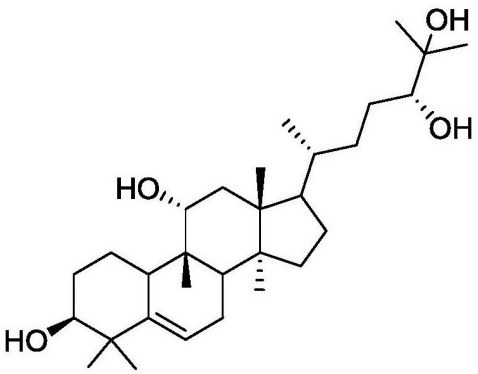
[0259] 在一些实施方案中，由于存在氨基和/或羧基或与其类似的基团，本文公开的化合物能够形成酸盐和/或碱盐。生理可接受的酸加成盐可以用无机酸和有机酸来形成。可以得到盐的无机酸包括，例如，盐酸、氢溴酸、硫酸、硝酸、磷酸等。可以得到盐的有机酸包括，例如，乙酸、丙酸、乙醇酸、丙酮酸、草酸、马来酸、丙二酸、琥珀酸、富马酸、酒石酸、柠檬酸、苯甲酸、肉桂酸、扁桃酸、甲磺酸、乙磺酸、对甲苯磺酸、水杨酸等。可以使用无机碱和有机碱来形成生理可接受的盐。可以得到盐的无机碱包括，例如，含有钠、钾、锂、铵、钙、镁、铁、锌、铜、锰、铝等的碱；特别优选铵盐、钾盐、钠盐、钙盐和镁盐。在一些实施方案中，使用无机碱处理本文公开的化合物导致从化合物损失不稳定的氢，以得到包含无机阳离子的盐形式，所述无机阳离子例如Li^{+}、Na^{+}、K^{+}、Mg^{2+}和Ca^{2+}等。可以得到盐的有机碱包括，例如，伯胺、仲胺和叔胺，取代的胺，包括天然存在的取代的胺，环状胺，碱离子交换树脂等，具体地，例如异丙胺、三甲胺、二乙胺、三乙胺、三丙胺和乙醇胺。

[0260] 在一些实施方案中，式(I)的化合物是基本上分离的。在一些实施方案中，化合物为冻干物的形式。在一些实施方案中，化合物是结晶的。在一些实施方案中，化合物是无定形的。在一些实施方案中，式(I)的化合物选自化合物1至化合物35中的一种或多种。

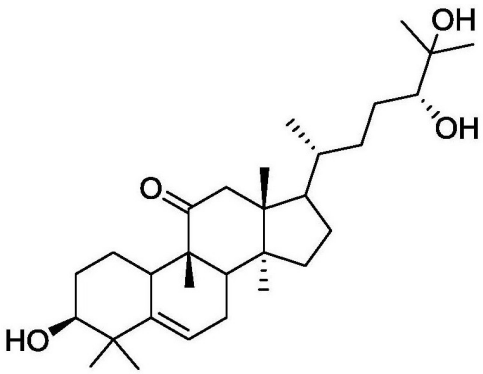
[0261] 产品组合物

[0262] 一些实施方案提供了包含相对高含量的一种或多种本文所述的化合物(例如，式(I)的化合物，例如化合物1至化合物35)的组合物。例如，在使用本文所述的生产方法生产本文所述的化合物时，可以形成富集期望的化合物但也含有其他化合物的组合物。在各种实施方案中，组合物含有重量百分比大于50％、55％、60％、65％、70％、75％、80％、85％、90％、95％、98％或99％的期望的化合物。在一些实施方案中，组合物包含一种或多种式(I)的其他化合物。在一些实施方案中，组合物包含选自以下的化合物中的一种或多种：

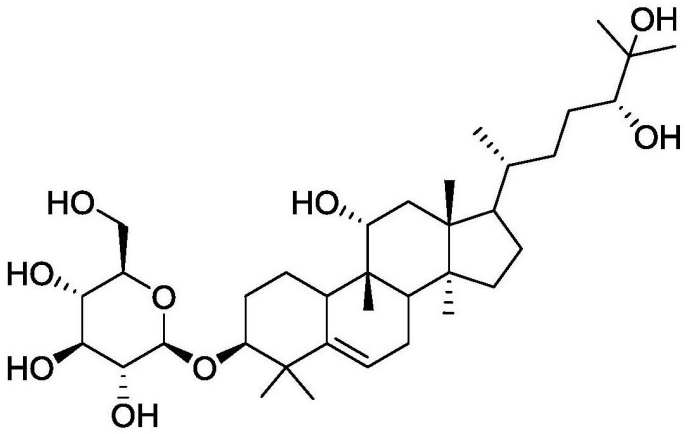
[0263]


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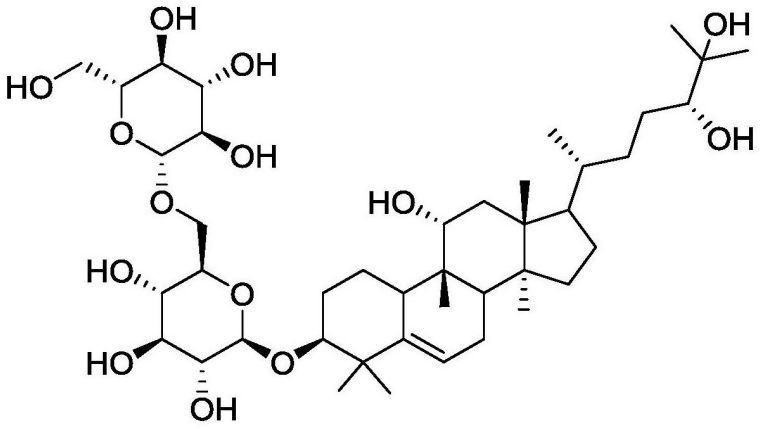
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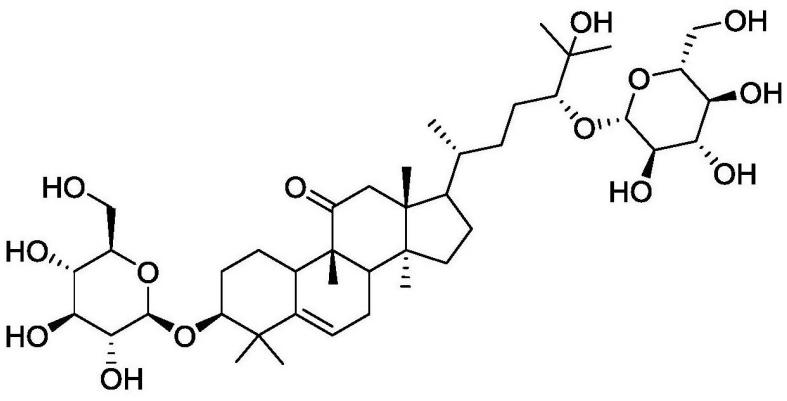
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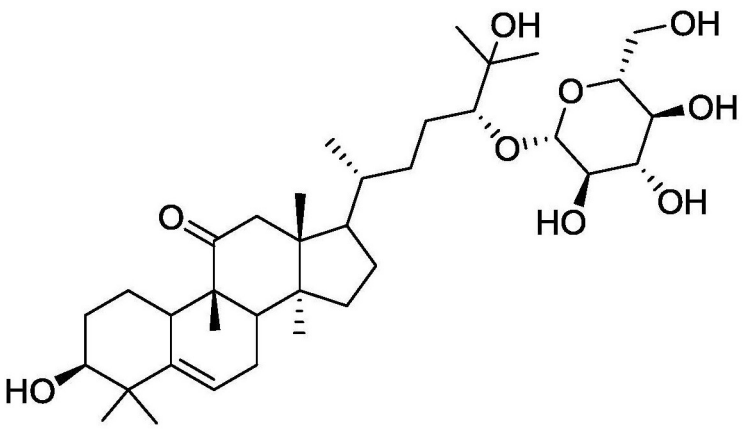

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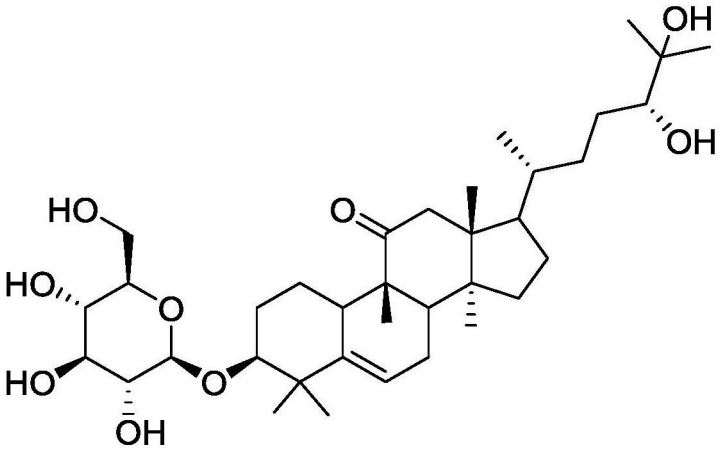

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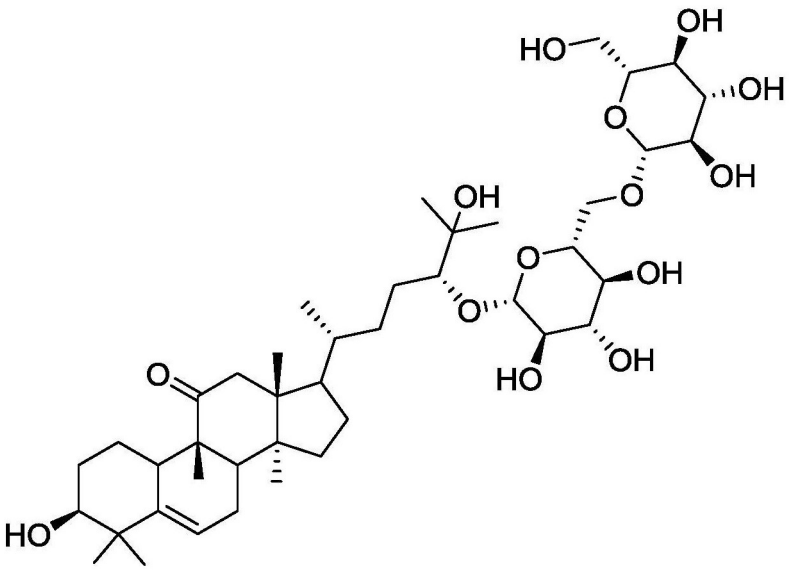
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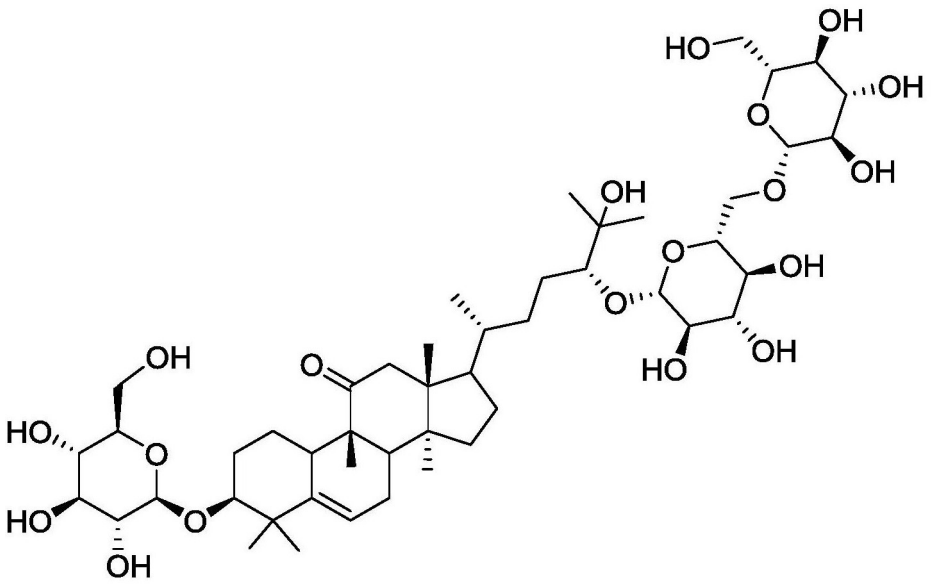


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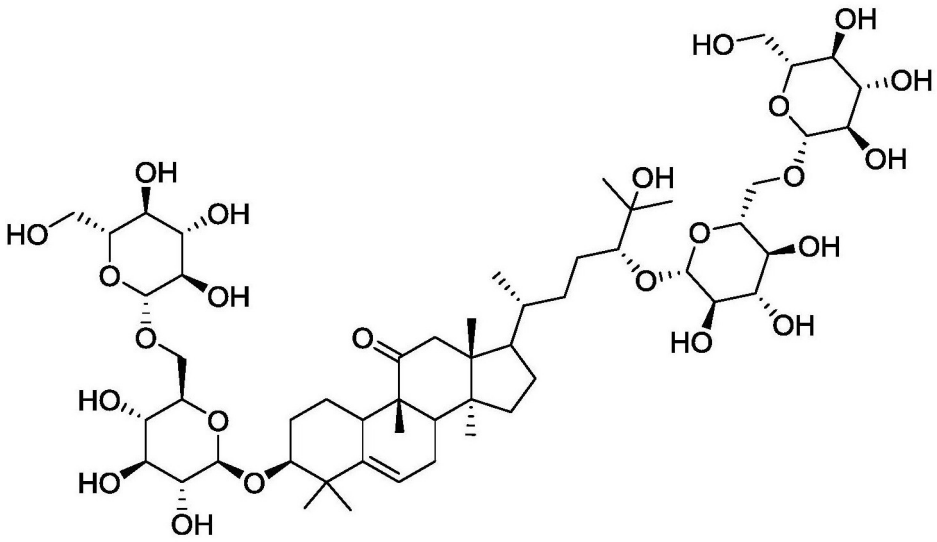


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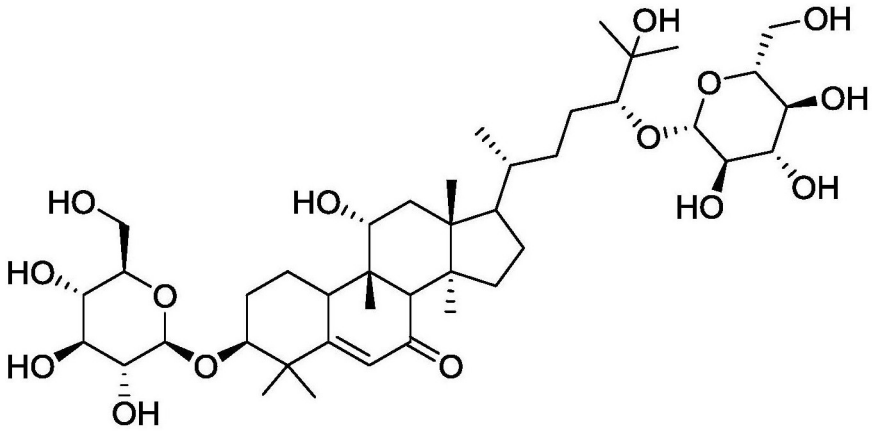
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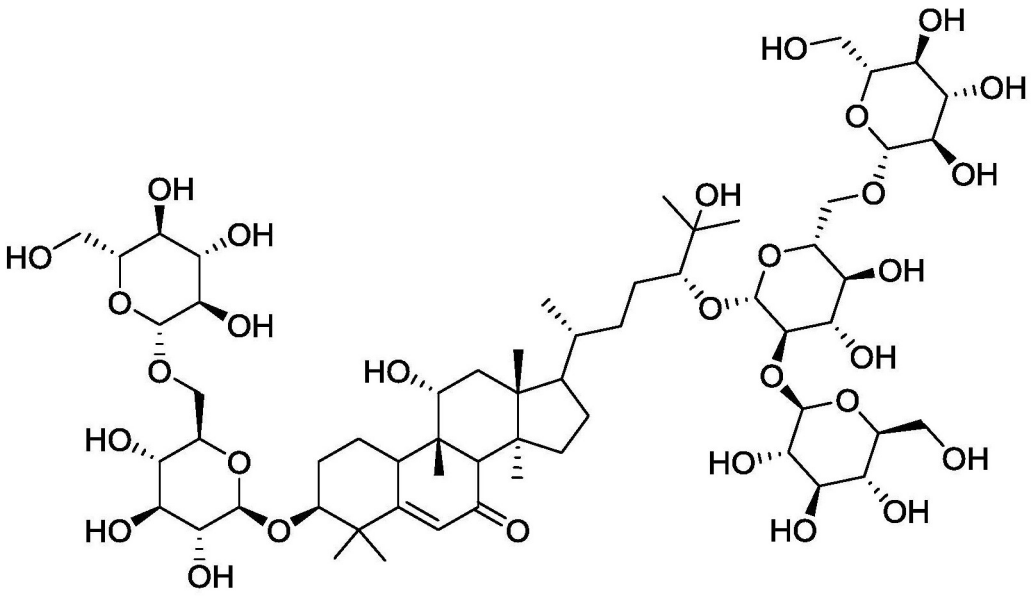


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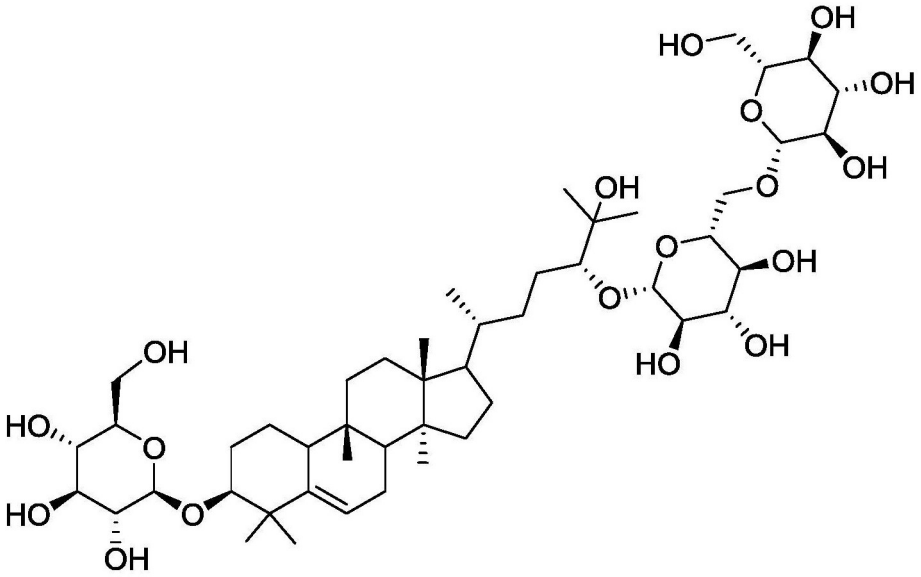


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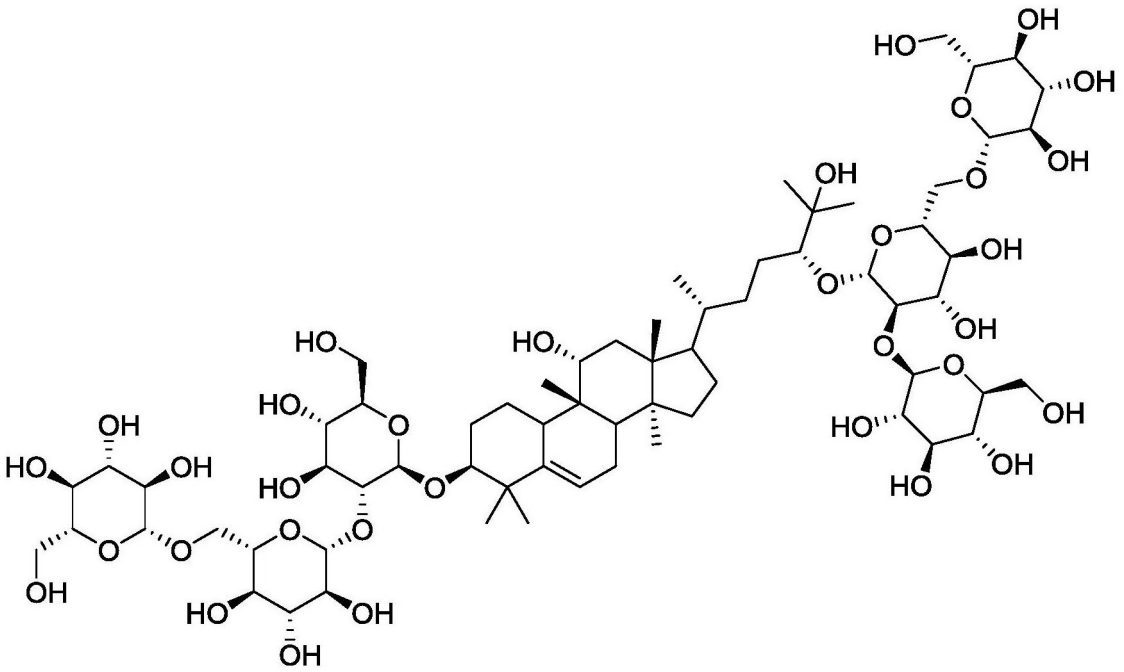


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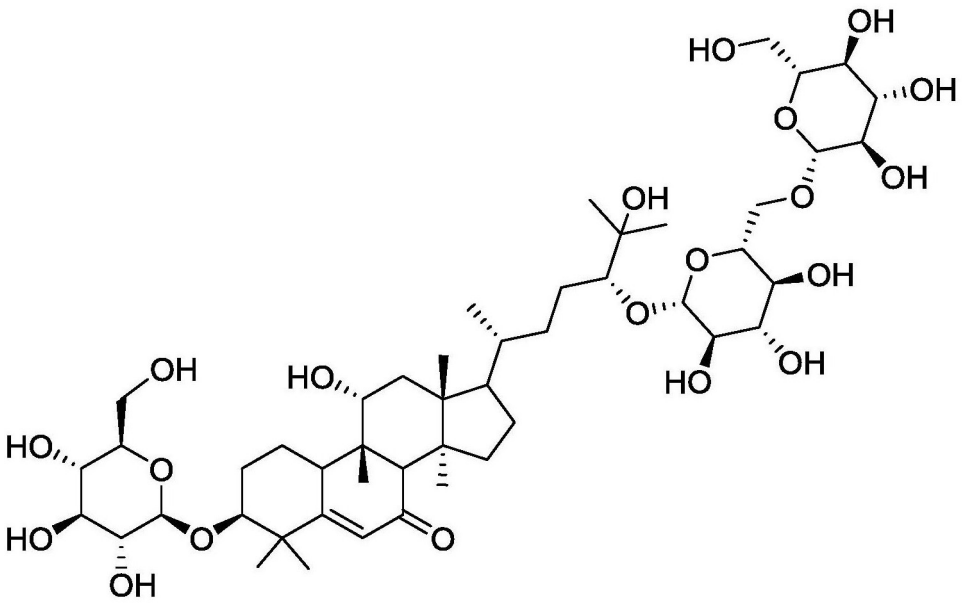


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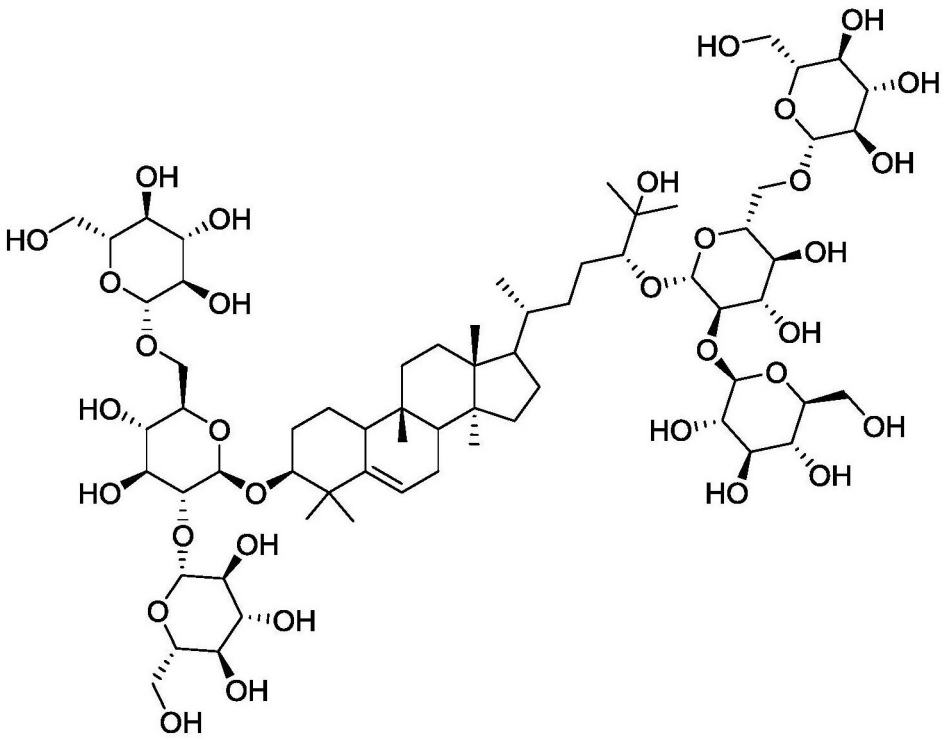


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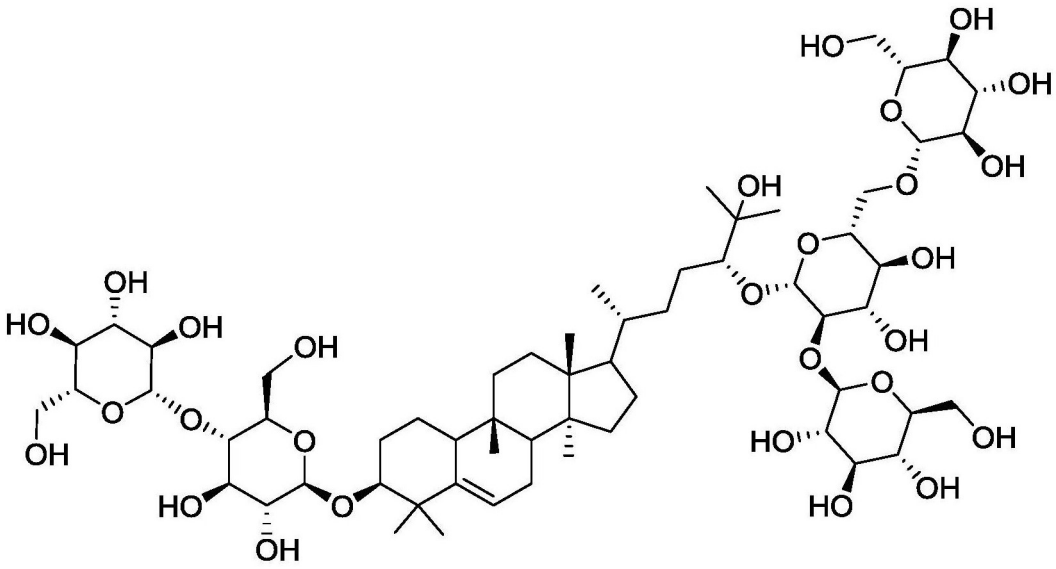


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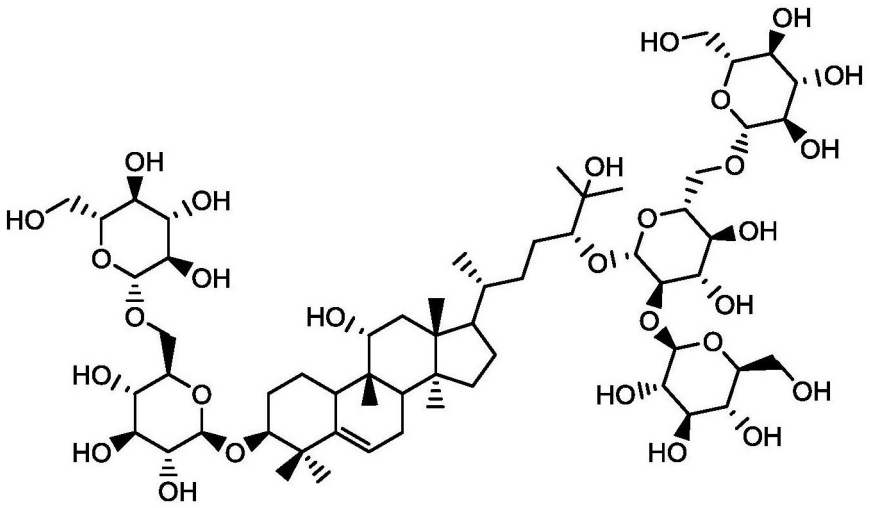


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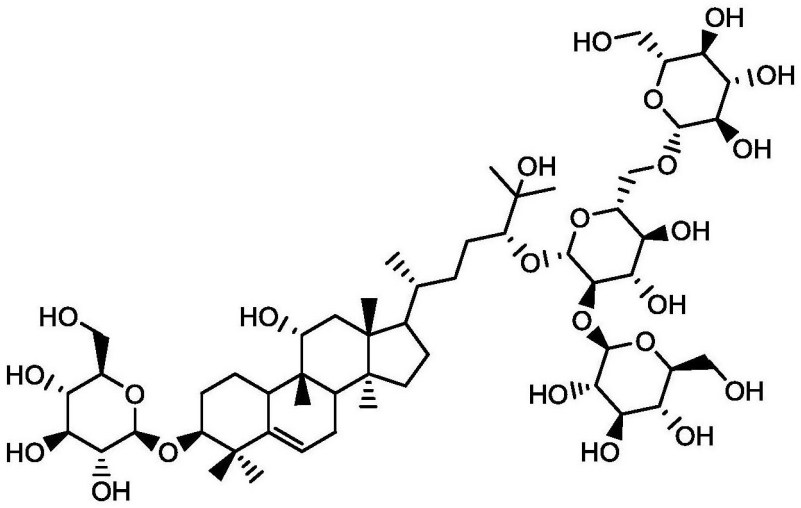


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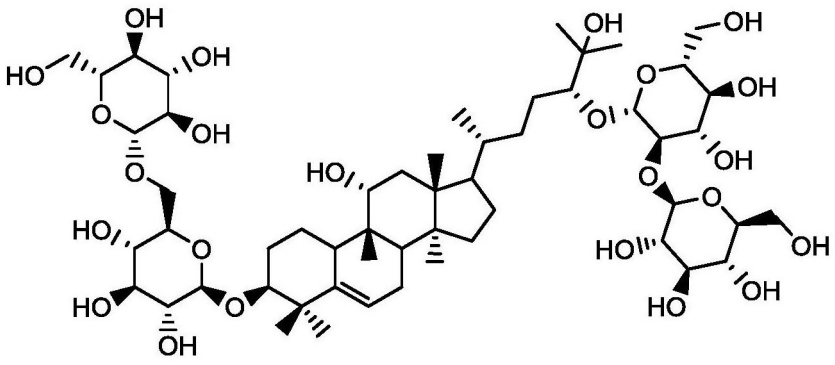
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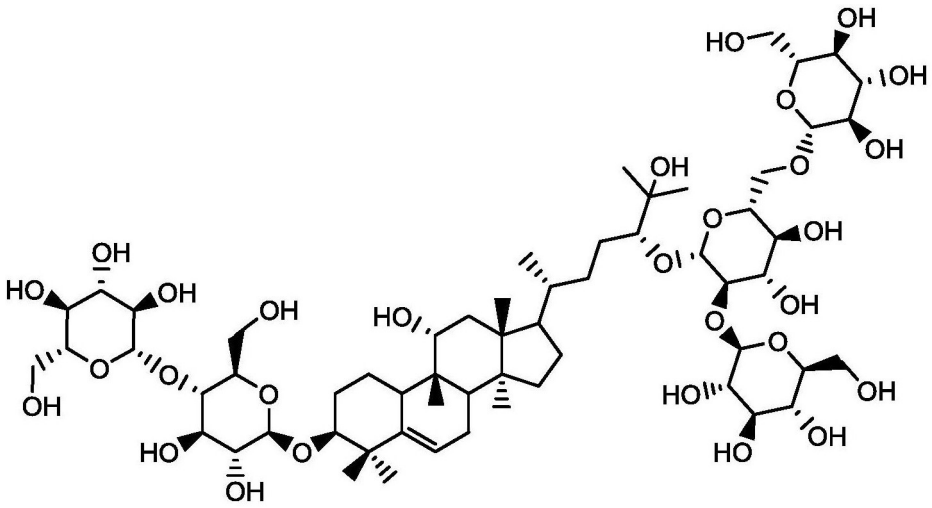


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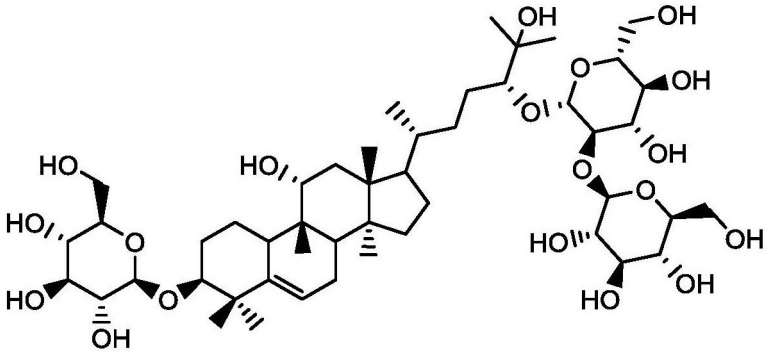


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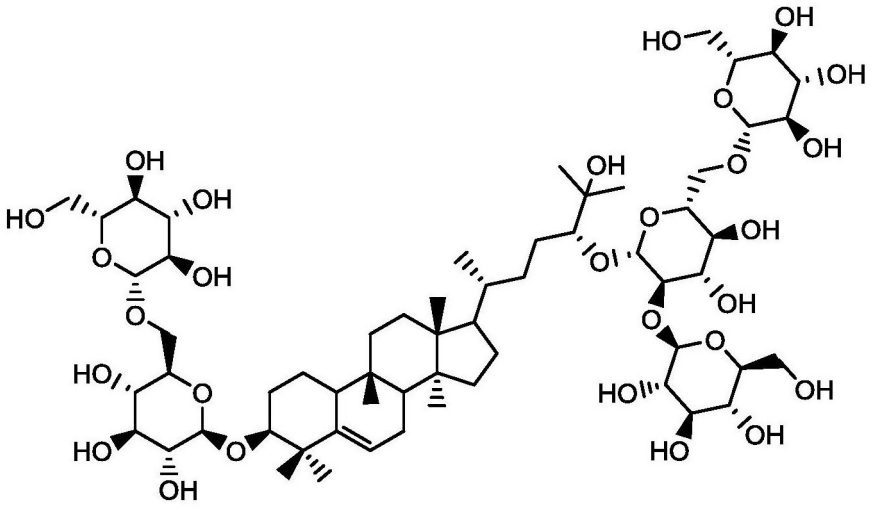
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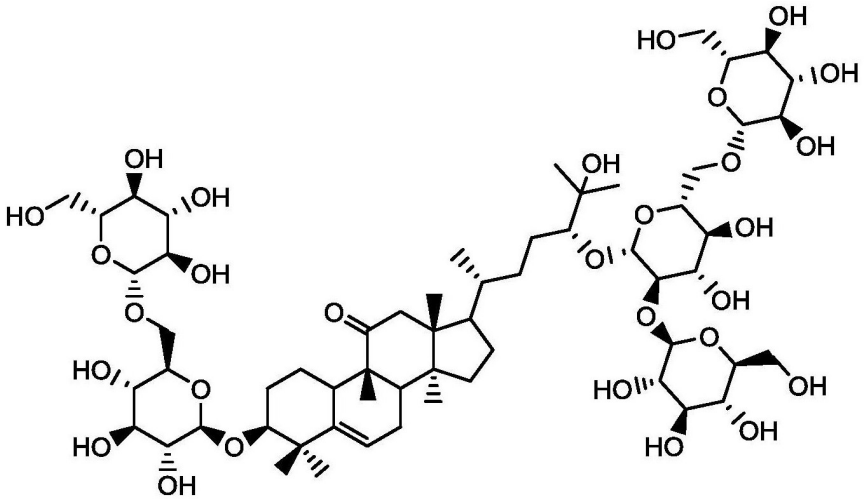


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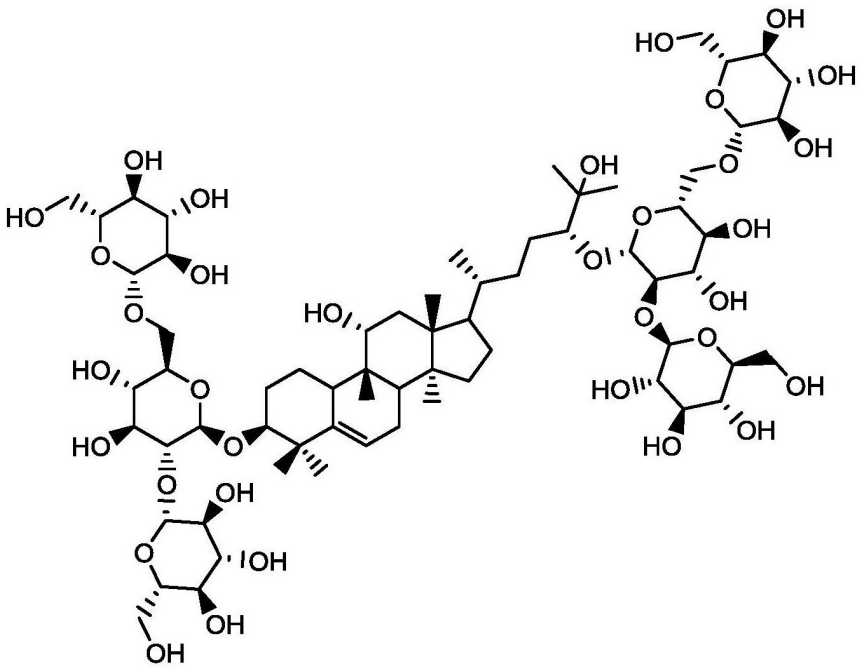


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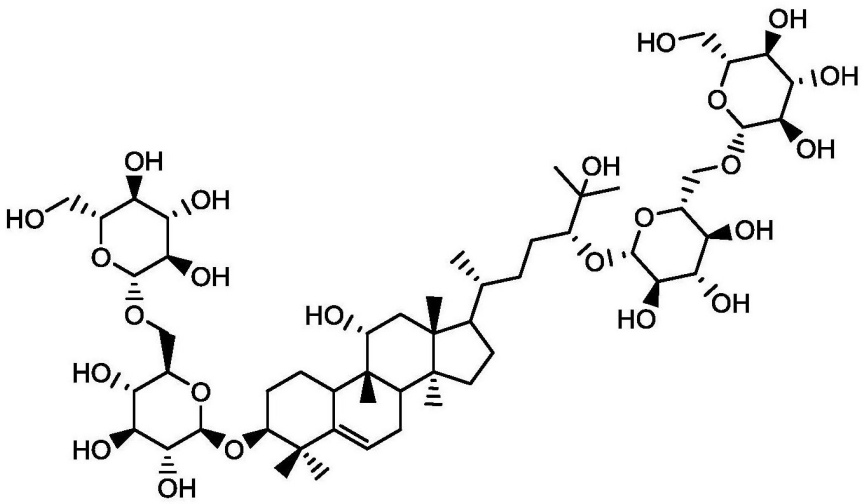
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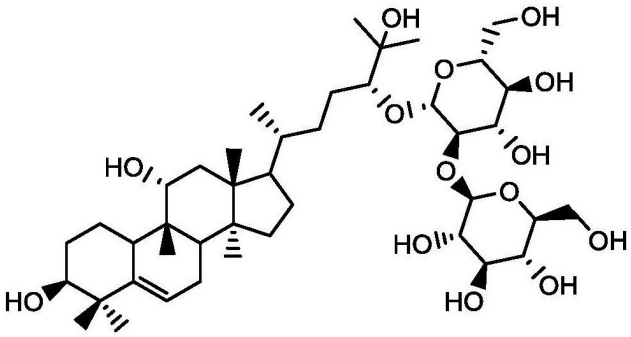


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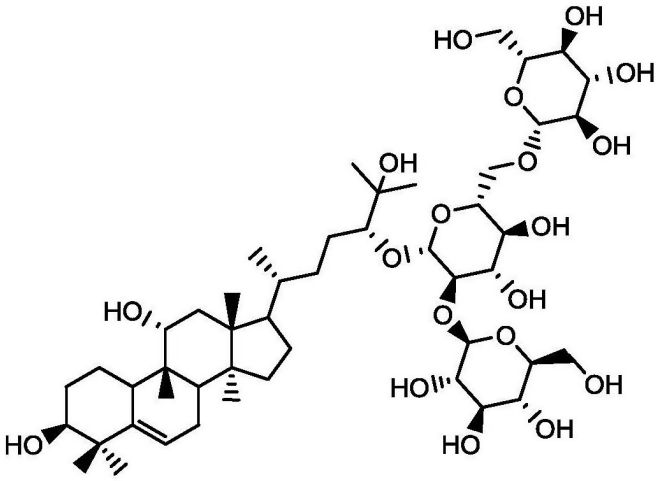


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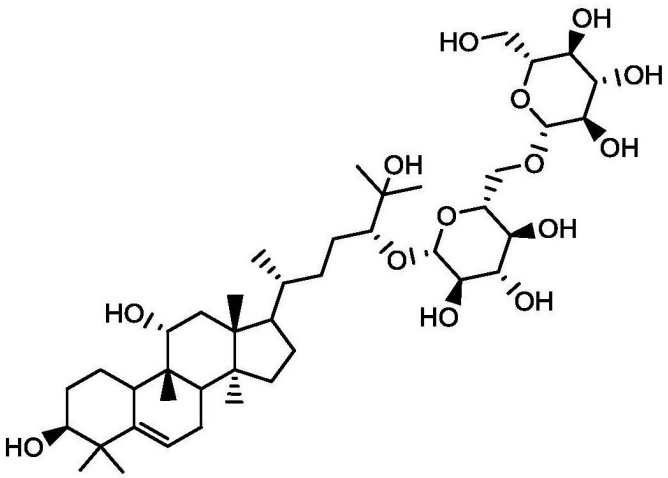
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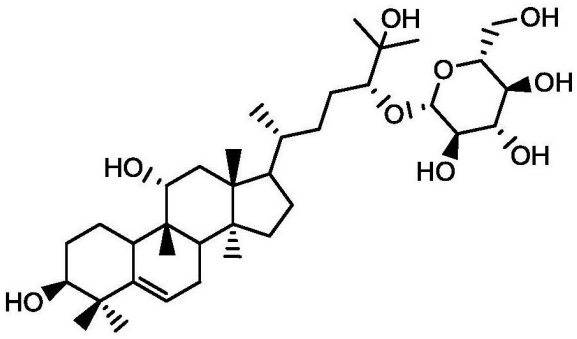
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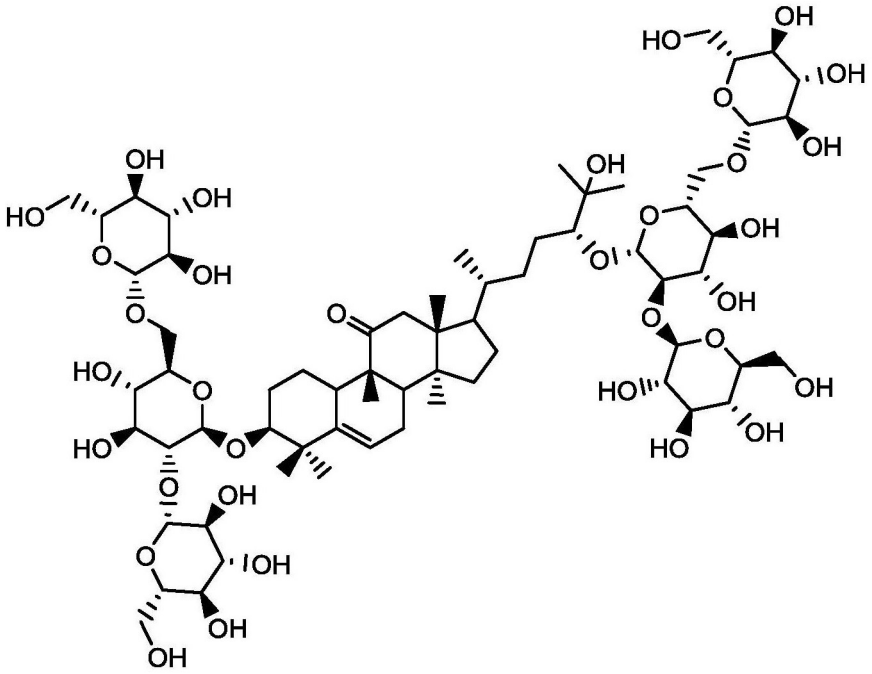


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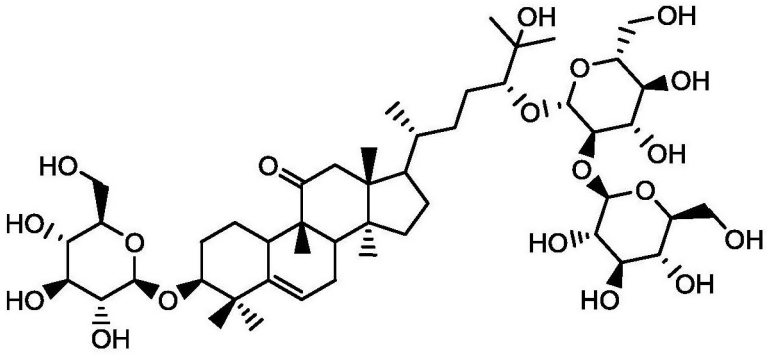


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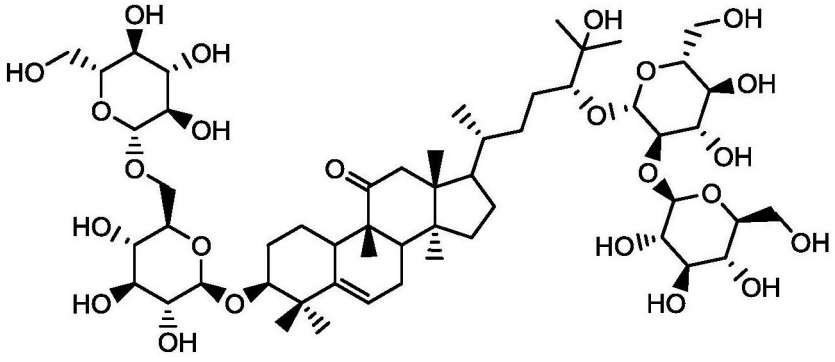
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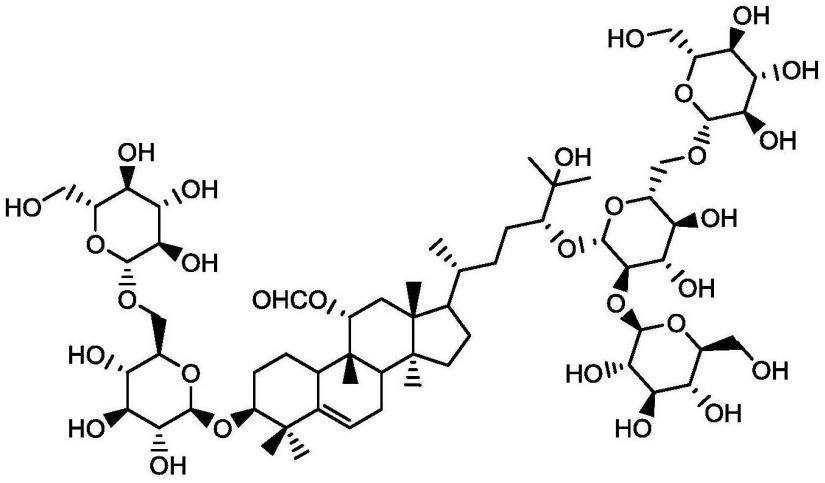
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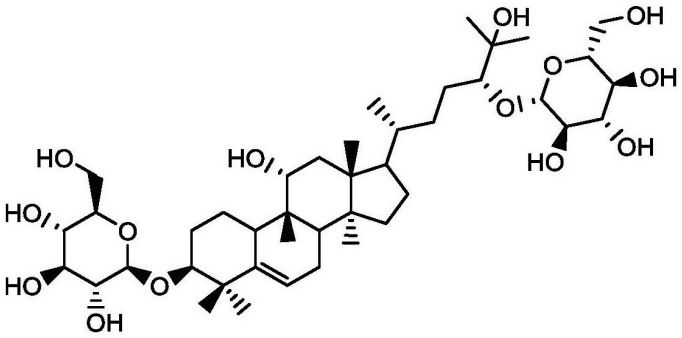
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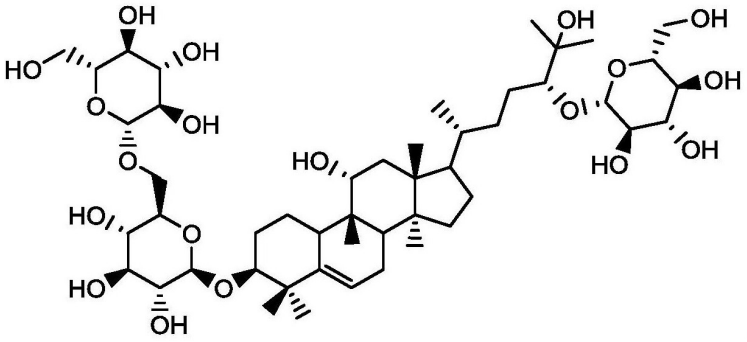


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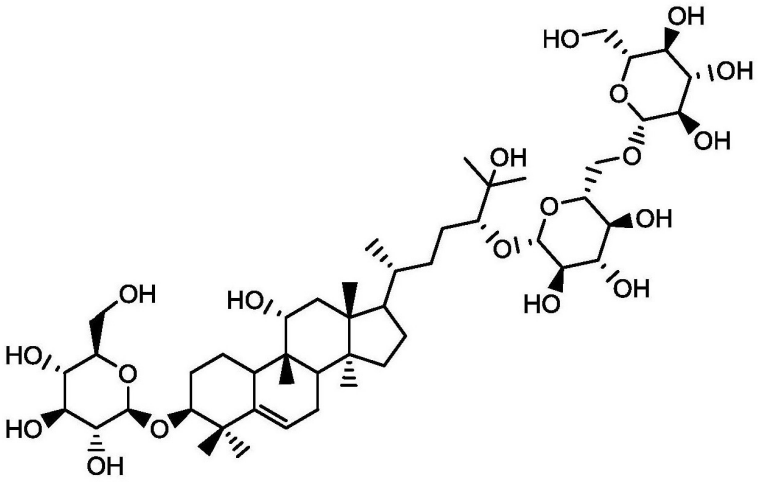


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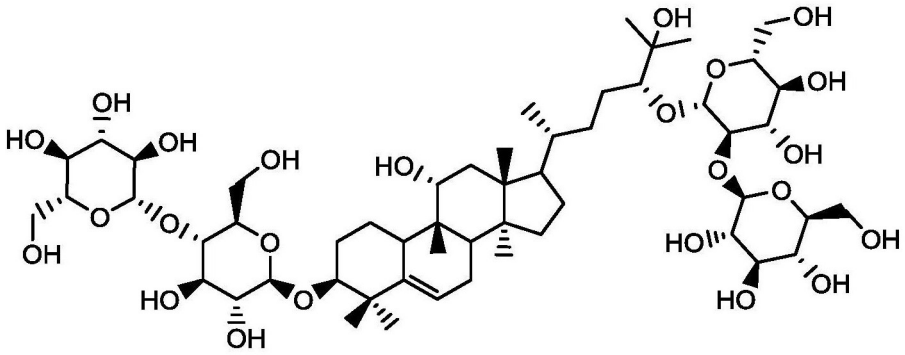


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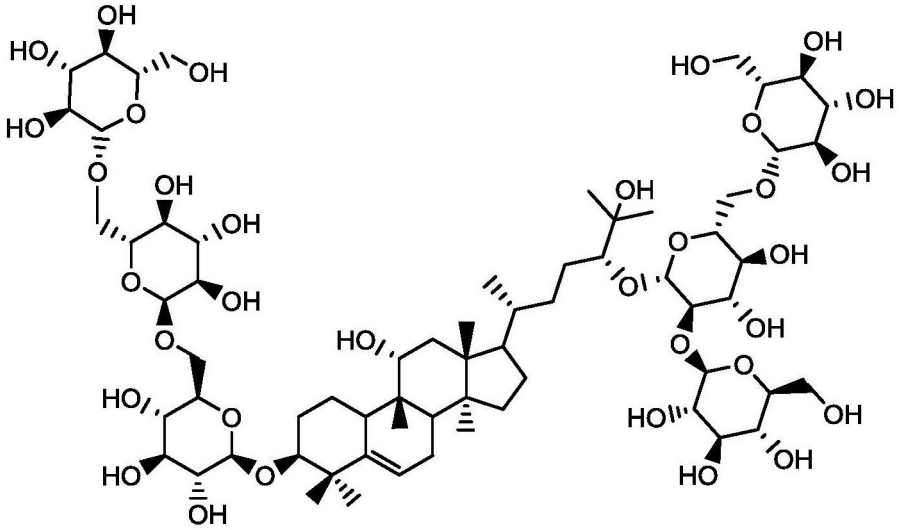


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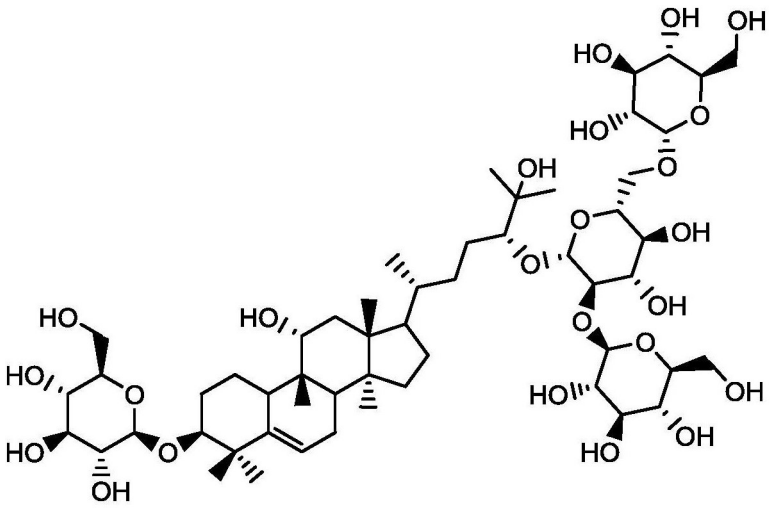
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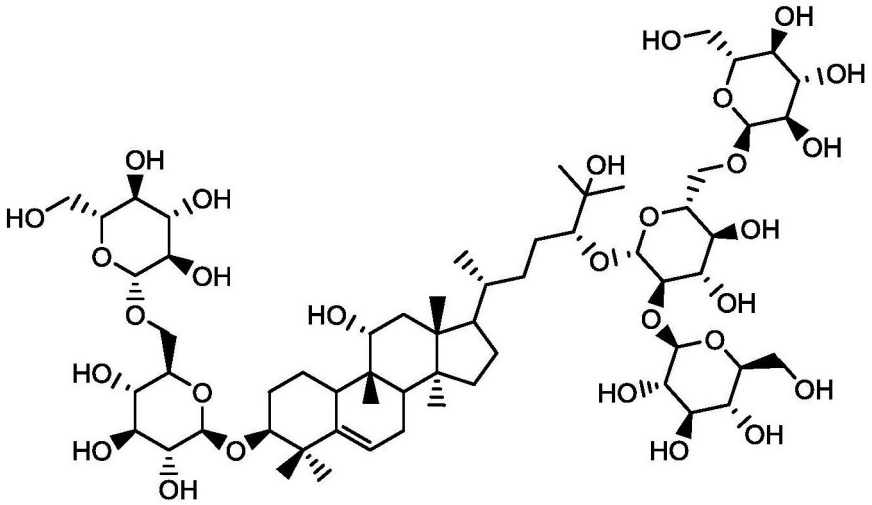


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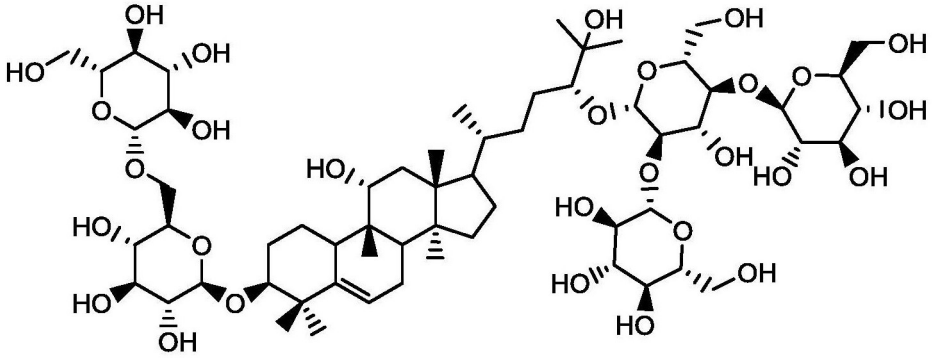


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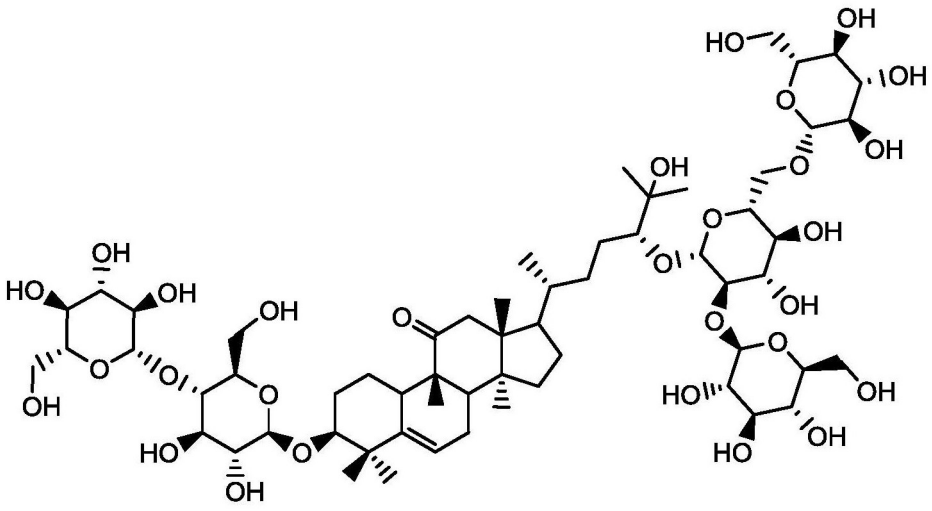
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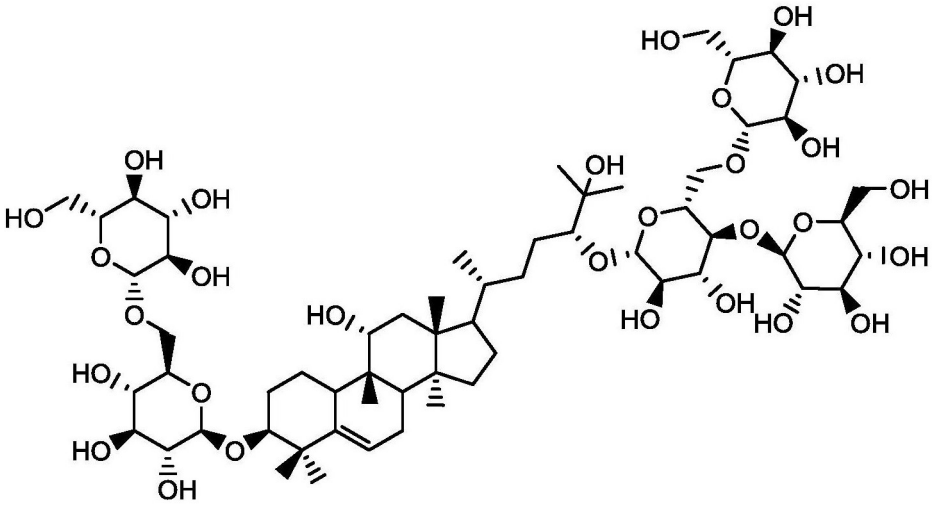


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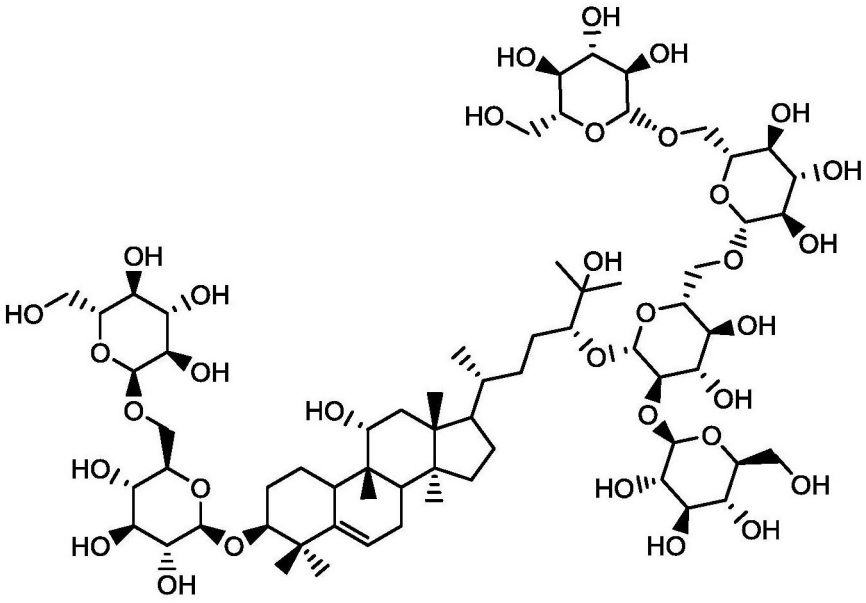


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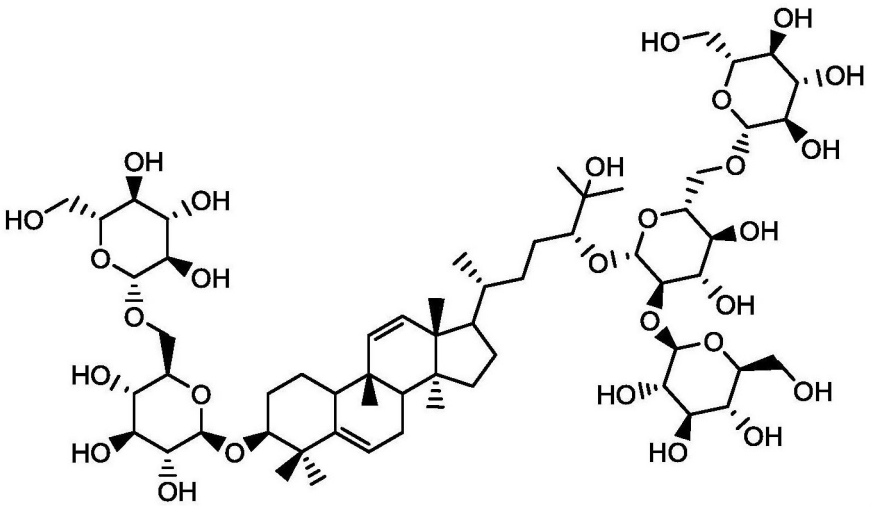
[0277]



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[0278] 在各种实施方案中，组合物含有小于50％、40％、30％、20％、10％、5％或1％的重量百分比的罗汉果苷V。在各种实施方案中，组合物含有1％至50％、5％至40％、10％至

40%、10%至30%或者10%至20%的重量百分比的罗汉果苷V。

[0279] 在一些实施方案中，产品组合物不含有不期望的化合物，或者含有小于某一量的不期望的化合物。在一些实施方案中，组合物不含有罗汉果苷I、罗汉果苷II和罗汉果苷III的一种或多种异构体。在各种实施方案中，组合物含有小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm的重量百分比的罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体。在一些实施方案中，组合物不含有罗汉果苷IIIE、11-氧代-罗汉果苷IIIE、罗汉果苷IIIA2、罗汉果苷IE、罗汉果苷IIE和11-氧代-罗汉果醇中的一种或多种。在各种实施方案中，组合物含有小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm的重量百分比的罗汉果苷IIIE、11-氧代-罗汉果苷IIIE、罗汉果苷IIIA2、罗汉果苷IE、罗汉果苷IIE和11-氧代-罗汉果醇中的一种或多种。在各种实施方案中，组合物含有小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm的重量百分比的罗汉果苷IIIE。在各种实施方案中，组合物含有小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm的重量百分比的11-氧代-罗汉果苷IIIE。在各种实施方案中，组合物含有小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm的重量百分比的11-氧代-罗汉果醇。

[0280] 在一些实施方案中，产品组合物为固体形式，其可以是结晶的或无定形的。在一些实施方案中，组合物为颗粒形式。可以使用任何适合的技术产生组合物的固体形式，所述适合的技术包括但不限于重结晶、过滤、溶剂蒸发、研磨、碾磨、喷雾干燥、喷雾团聚、流化床团聚、湿法粒化或干法粒化及其组合。在一些实施方案中，提供了可流动的颗粒组合物以促进用于进一步的食品制造过程。在一些此类实施方案中，产生了50μm至300μm、80μm至200μm、或者80μm至150μm的粒径。

[0281] 在一些实施方案中，产品组合物与固体载体结合。例如，产品组合物可以混合有固体载体，或者涂覆有固体载体。在一些实施方案中，固体载体为颗粒的。可以使用任何适合的涂覆技术，包括喷雾涂覆。适合的固体载体包括但不限于乳糖、纤维素、微晶纤维素、改性食品淀粉、阿拉伯胶、麦芽糖糊精、改性玉米淀粉、右旋糖、黄原胶、羧甲基纤维素、纤维素凝胶、纤维素胶、酪蛋白酸钠、角叉菜胶及其组合。

[0282] 在一些实施方案中，在进一步使用之前，将包含本文所述的化合物的颗粒组合物悬浮于液体载体。适合的液体载体可以包括水、醇、乙醇、丙二醇、三醋酸甘油酯、中链甘油三酯、甘油及其组合。

[0283] 一些实施方案提供了溶液形式的产品组合物。例如，在一些实施方案中，通过本文所述的生产方法之一产生的溶液在未经进一步纯化的情况下使用。在各种实施方案中，溶液中期望化合物的浓度以重量计大于300ppm、500ppm、800ppm、0.1%、0.5%、1%、2%、3%、4%、5%、6%、7%、8%、9%、10%、15%或20%。在各种实施方案中，罗汉果苷I、罗汉果苷II和罗汉果苷III的所有异构体的浓度小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm或100ppm。在各种实施方案中，罗汉果苷IIIE、11-氧代-罗汉果苷IIIE、罗汉果苷IIIA2、罗汉果苷IE、罗汉果苷IIE和11-氧代-罗汉果醇中的一种或多种的浓度小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm、100ppm、50ppm、30ppm、20ppm、10ppm、5ppm、1ppm或0.1ppm。在各种实施方案中，罗汉果苷IIIE的浓度小于5%、3%、2%、1%、0.5%、0.3%、0.1%、800ppm、500ppm、200ppm、100ppm、50ppm、30ppm、20ppm、

10ppm、5ppm、1ppm或0.1ppm。在各种实施方案中，11-氧代-罗汉果苷IIIE的浓度小于5％、3％、2％、1％、0.5％、0.3％、0.1％、800ppm、500ppm、200ppm、100ppm、50ppm、30ppm、20ppm、10ppm、5ppm、1ppm或0.1ppm。在各种实施方案中，11-氧代-罗汉果醇的浓度小于5％、3％、2％、1％、0.5％、0.3％、0.1％、800ppm、500ppm、200ppm、100ppm、50ppm、30ppm、20ppm、10ppm、5ppm、1ppm或0.1ppm。

[0284] 在一些实施方案中，产品组合物具有小于或等于7的pH。在一些实施方案中，产品组合物具有小于7的pH。在一些实施方案中，产品组合物具有大于或等于7的pH。在一些实施方案中，产品组合物具有大于7的pH。在一些实施方案中，产品组合物具有6至10、6至9、6至8、6至7、1至7、1至6、1至5、1至4、1至3或者1至2的pH。在一些实施方案中，产品组合物具有约1、约1.5、约2、约2.5、约3、约3.5、约4、约4.5、约5、约5.5、约6、约6.5或约7的pH。

[0285] 可摄取组合物

[0286] 通常，本文公开并描述的化合物可以单独或结合地提供在组合物(例如，可摄取组合物)中。在一个实施方案中，本文公开并描述的化合物可以单独或结合地为可摄取组合物提供甜味。在其他实施方案中，本文公开并描述的化合物可以单独或结合地用作甜味增强剂，以便增强另一甜味剂的甜味。在其他实施方案中，本文公开的化合物通过将本文公开并描述的化合物中的一种或多种与甜味剂组合物中的一种或多种其他甜味剂结合对甜味剂组合物赋予更类似于糖的时间曲线和/或风味曲线。在另一个实施方案中，本文公开并描述的化合物可以通过将组合物与本文公开并描述的化合物接触以形成改性组合物单独或结合地提高或增强所述组合物的甜味。在另一个实施方案中，本文公开并描述的化合物可以单独或结合地存在于组合物中，所述组合物调节体内而不是味蕾中表达的甜味受体和/或其配体。

[0287] 一些实施方案提供了可摄取组合物，其包含至少一种式(I)的化合物或其盐和可摄取接受的成分。在一些实施方案中，可摄取组合物不包含罗汉果苷V。

[0288] 一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任一种化合物和可摄取接受的成分。在一些实施方案中，组合物包含化合物1或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物2或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物3或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物4或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物5或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物6或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物7或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物8或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物9或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物10或其盐和可摄取接受的成分。

[0289] 在一些实施方案中，组合物包含化合物11或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物12或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物13或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物14或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物15或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物16或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物17或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合

物18或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物19或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物20或其盐和可摄取接受的成分。

[0290] 在一些实施方案中，组合物包含化合物21或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物22或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物23或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物24或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物25或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物26或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物27或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物28或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物29或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物30或其盐和可摄取接受的成分。

[0291] 在一些实施方案中，组合物包含化合物31或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物32或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物33或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物34或其盐和可摄取接受的成分。在一些实施方案中，组合物包含化合物35或其盐和可摄取接受的成分。

[0292] 一些实施方案提供了可摄取组合物，其由化合物1至化合物35中的至少任一种化合物和可摄取接受的成分组成。在一些实施方案中，组合物由化合物1或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物1或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物2或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物3或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物4或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物5或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物6或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物7或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物8或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物9或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物10或其盐和可摄取接受的成分组成。

[0293] 在一些实施方案中，组合物由化合物11或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物12或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物13或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物14或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物15或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物16或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物17或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物18或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物19或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物20或其盐和可摄取接受的成分组成。

[0294] 在一些实施方案中，组合物由化合物21或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物22或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物23或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物24或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物25或其盐和可摄取接

受的成分组成。在一些实施方案中，组合物由化合物26或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物27或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物28或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物29或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物30或其盐和可摄取接受的成分组成。

[0295] 在一些实施方案中，组合物由化合物31或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物32或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物33或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物34或其盐和可摄取接受的成分组成。在一些实施方案中，组合物由化合物35或其盐和可摄取接受的成分组成。

[0296] 一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任两种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任三种化合物。

[0297] 一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任四种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任五种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任六种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任七种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任八种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任九种化合物。一些实施方案提供了可摄取组合物，其包含化合物1至化合物35中的至少任十种化合物。

[0298] 在一些实施方案中，例如两种化合物的比例为约1:100至100:1。在一些实施方案中，化合物的比例为约1:50至50:1。在一些实施方案中，化合物的比例为约1:25至25:1。在一些实施方案中，化合物的比例为约1:10至10:1。在一些实施方案中，化合物的比例为约1:5至5:1。在一些实施方案中，化合物的比例为约1:2至2:1。在一些实施方案中，化合物的比例为约1:1。

[0299] 在一些实施方案中，化合物以约0.01重量％至约15重量％的量存在。在一些实施方案中，化合物以约0.05重量％至约14重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约13重量％的量存在。在一些实施方案中，化合物以约0.2重量％至约12重量％的量存在。在一些实施方案中，化合物以约0.3重量％至约11重量％的量存在。

[0300] 在一些实施方案中，化合物以约0.4重量％至约1重量％的量存在。在一些实施方案中，化合物以约0.5重量％至约9重量％的量存在。在一些实施方案中，化合物以约0.6重量％至约8重量％的量存在。在一些实施方案中，化合物以约0.7重量％至约7重量％的量存在。在一些实施方案中，化合物以约0.8重量％至约6重量％的量存在。在一些实施方案中，化合物以约0.9重量％至约5重量％的量存在。在一些实施方案中，化合物以约1重量％至约4重量％的量存在。在一些实施方案中，化合物以约1重量％至约3重量％的量存在。在一些实施方案中，化合物以约1重量％至约2重量％的量存在。

[0301] 在一些实施方案中，化合物以约0.01重量％至约5重量％的量存在于可摄取组合物中。在一些实施方案中，化合物以约0.02重量％至约2重量％的量存在于可摄取组合物

中。在一些实施方案中，化合物以约0.05重量％至约1.5重量％的量存在于可摄取组合物中。在一些实施方案中，化合物以约0.1重量％至约1重量％的量存在于可摄取组合物中。

[0302] 在一些实施方案中，化合物以大于约0.1重量％、0.2重量％、0.5重量％、1重量％、2重量％、5重量％或10重量％的量存在于可摄取组合物中。

[0303] 在一些实施方案中，化合物以约0.1重量％至约5重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约4重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约3重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约2重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约1重量％的量存在。在一些实施方案中，化合物以约0.1重量％至约0.5重量％的量存在。在一些实施方案中，化合物以约0.5重量％至约10重量％的量存在。在一些实施方案中，化合物以约2重量％至约8重量％的量存在。

[0304] 在一些实施方案中，当用作甜味增强剂时，化合物可以以其甜味识别阈值的浓度或低于该浓度存在。

[0305] 如本文使用的，“可摄取组合物”包括单独或连同另一物质一起适于经口摄取(无论是否用于消耗)的任何组合物。可摄取组合物包括“食品或饮料产品”和“非食用产品”。“食品或饮料产品”意指旨在供人或动物消耗的任何可食用产品，包括固体、半固体或液体(例如，饮料)，并且包括功能性食品(例如，声称具有超出了供应营养物的基本营养功能的健康促进和/或疾病预防性质的任何新鲜或加工食品)。术语“非食品或饮料产品”或“非食用组合物”包括可以由人或动物经口摄取而并非用于消耗或者作为食品或饮料的任何产品或组合物。例如，非食品或饮料产品或者非食用组合物包括增补品，营养品，药物和非处方药，诸如洁牙剂和漱口水以及口香糖的口腔护理产品。

[0306] 在一些实施方案中，可摄取组合物可以为饮料。在一些实施方案中，饮料可以选自增强的发泡饮料、可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料和冰沙。在一些实施方案中，饮料可以为软饮料。

[0307] “可摄取接受的成分”是适于经口摄取并且可以与本文所述的化合物结合以形成可摄取组合物的物质。根据产品的预期用途，可摄取接受的成分可以为任何形式，例如，固体、半固体、液体、糊剂、凝胶、洗液、乳膏、泡沫材料、悬浮液、溶液或其任意组合(例如，含固体内含物的液体)。可摄取接受的成分可以是人造的或天然的。可摄取接受的成分包括很多常见食品成分，例如中性、酸性或碱性pH的水，水果汁或蔬菜汁，醋，腌泡汁，啤酒，红酒，诸如奶或浓缩奶的天然水/脂肪乳液，食用油和酥油，脂肪酸及其烷基酯，丙二醇的低分子量低聚物，脂肪酸的甘油酯，以及此类疏水物质在水性介质中的分散液或乳液，诸如氯化钠的盐，小麦面粉，诸如乙醇的溶剂，诸如蔬菜粉末或面粉的固体可食用稀释剂，或者其他液体媒介物；分散助剂或悬浮助剂；表面活性剂；等渗剂；增稠剂或乳化剂；防腐剂；固体粘合剂；润滑剂等。

[0308] 另外的可摄取接受的成分包括酸，包括例如柠檬酸、磷酸、抗坏血酸、酸式硫酸钠、乳酸或酒石酸；苦味成分，包括例如咖啡因，奎宁，绿茶，儿茶素，多酚，生罗布斯塔咖啡(green robusta coffee)提取物，生咖啡提取物，乳清分离蛋白，或者氯化钾；着色剂，包括

例如焦糖色素,红色#40,黄色#5,黄色#6,蓝色#1,红色#3,紫胡萝卜,黑胡萝卜汁,紫甘薯,蔬菜汁,水果汁,β胡萝卜素,姜黄素或者二氧化钛;防腐剂,包括例如苯甲酸钠,苯甲酸钾,山梨酸钾,偏硫酸氢钠,山梨酸或者苯甲酸;抗氧化剂,包括例如抗坏血酸,EDTA钙二钠,α生育酚,混合生育酚,迷迭香提取物,葡萄籽提取物,白藜芦醇,或者六偏磷酸钠;维生素或功能性成分,包括例如白藜芦醇,Co-Q10,ω3脂肪酸,茶氨酸,氯化胆碱(胞磷胆碱),抗性糊精(fibersol),菊粉(菊苣根),牛磺酸,人参提取物,瓜拿纳(guanana)提取物,姜提取物,L-苯基丙氨酸,L-肉碱,L-酒石酸盐,D-葡糖醛酸内酯,肌醇,生物黄酮素,紫锥菊(Echinacea),银杏(ginko biloba),巴拉圭茶(yerba mate),亚麻籽油,藤黄果(garcinia cambogia)外皮提取物,白茶提取物,核糖,奶蓟(milk thistle)提取物,葡萄籽提取物,吡哆素HCl(维生素B6),氰钴胺(cyanoobalamin,维生素B12),烟酰胺(维生素B3),生物素,乳酸钙,泛酸钙(泛酸),磷酸钙,碳酸钙,氯化铬,多聚烟酸铬,硫酸铜,叶酸,焦磷酸铁,铁,乳酸镁,碳酸镁,硫酸镁,磷酸二氢钾,磷酸二氢钠,磷,碘化钾,磷酸钾,核黄素,硫酸钠,葡糖酸钠,多聚磷酸钠,碳酸氢钠,一硝酸硫胺,维生素D3,维生素A棕榈酸酯,葡糖酸锌,乳酸锌或硫酸锌;混浊剂,包括例如酯胶(ester gun),溴化植物油(BVO),或者蔗糖乙酸异丁酸酯(SAIB);缓冲液,包括例如柠檬酸钠,柠檬酸钾或盐;调味料,包括例如丙二醇,乙醇,甘油,阿拉伯胶(gum arabic/gum acacia),麦芽糖糊精,改性玉米淀粉,右旋糖,天然调味料,天然调味料连同其他天然调味料(天然调味料WONF),天然调味料和人造调味料,人造调味料,二氧化硅,碳酸镁或磷酸三钙;以及稳定剂,包括例如果胶,黄原胶,羧甲基纤维素(CMC),聚山梨醇酯60,聚山梨醇酯80,中链甘油三酯,纤维素凝胶,纤维素胶,酪蛋白酸钠,改性食品淀粉,阿拉伯胶或角叉菜胶。

[0309] 在一些实施方案中,可摄取组合物还包含媒介物。在一些实施方案中,媒介物为水。在一些实施方案中,媒介物为碳酸水。在一些实施方案中,媒介物为注入氮的水。在一些实施方案中,媒介物为乙醇水溶液。在一些实施方案中,媒介物为即用的饮料产品。

[0310] 在一些实施方案中,组合物包含本文所述的甜味化合物和/或甜味增强化合物,以及一种或多种食品添加剂。代表性的食品添加剂包括但不限于,美国食品药品监管局宣布的那些食品添加剂(参见美国食品添加物质(EAFUS)的美国FDA清单,可从http://www.accessdata.fda.gov/scripts/fcn/fcnNavigation.cfm?rpt=eafusLi eafus获得,最后访问为2015年11月16日)。此类食品添加剂包括:阿拉伯胶(Gum Acacia/Acacia Senegal(L.)Willd.),巴西莓提取物,乙酰舒泛钾,缩醛,乙醛,乙醛,丁基苯乙基缩醛,乙醛二-顺-3-己烯基缩醛,乙醛二异戊基缩醛,乙醛二-异丁基缩醛,乙醛乙基顺-3-己烯基缩醛,乙醛乙基异丁基缩醛,(+/-)-乙醛乙基异丙基缩醛,乙醛己基异戊基缩醛,乙醛1,3-辛二醇缩醛,乙醛苯乙基丙基缩醛,乙酰胺,对甲氧基苯乙酮,乙酸,乙酸酐,乙偶姻,乙偶姻丙二醇缩酮,来自枯草芽孢杆菌(Bacillus Subtilis)重组体的α-乙酰乳酸脱羧酶制剂,乙酰三油酸甘油酯(Acetolein),丙酮,过氧化丙酮,苯乙酮,乙酰硬脂酸甘油酯,6-乙酰氧基二氢茶螺烷,4-乙酰氧基-2,5-二甲基-3(2h)-呋喃酮,(+/-)-1-乙酰氧基-1-乙氧基乙烷,4-(对乙酰氧基苯基)-2-丁酮,5-乙酰基-2,3-二氢-1,4-噻嗪,2-乙酰基-3,5-二甲基呋喃,3-乙酰基-2,5-二甲基呋喃,4-乙酰基-2,5-二甲基-3(2h)-呋喃酮,2-乙酰基-3,5(或6)-二甲基吡嗪,异构体混合物,2-乙酰基-3-乙基吡嗪,4-乙酰基-2-异丙烯基吡啶,2-乙酰基-4-异丙烯基吡啶,2-乙酰基-4-异丙基吡啶,3-乙酰基巯基己基乙酸酯,N-乙酰基-L-蛋氨酸,乙

酰基甲基卡宾基乙酸酯,2-乙酰基-5-甲基呋喃,2-乙酰基-3-甲基吡嗪,4-乙酰基-2-甲基嘧啶,2-乙酰基-5-甲基噻吩,乙酰基吡嗪,2-乙酰基吡啶,3-乙酰基吡啶,2-乙酰基-1-吡咯啉,4-乙酰基-6-叔丁基-1,1-二甲基二氢化茚,2-乙酰基噻唑,2-乙酰基-2-噻唑啉,3-(乙酰基硫代)-2-甲基呋喃,乌头酸,丙烯醛,3-(2-呋喃基)丙烯醛,丙烯酰胺-丙烯酸树脂,丙烯酰胺-丙烯酸钠树脂,丙烯酸-2-丙烯酰氨基-2-甲基丙烷磺酸共聚物,活性碳,己二酸,己二酸酐,爱德万甜(Advantame),琼脂(石花菜属(Gelidium Spp.)),α-没药醇,Dl-丙氨酸,L-丙氨酸,β-丙氨酸,L-丙氨酰基-L-谷氨酰胺,白蛋白;醇,变性式23a;醇Sda-3a;苜蓿提取物(紫苜蓿(Medicago Sativa L.));苜蓿草药和种子(紫苜蓿(Medicago Sativa L.));褐藻提取物(巨藻属和海带属(Macrocystis And Laminaria Spp.));红藻(紫菜属(Porphyra Spp.),海萝藻和掌状红皮藻(Rhodymenia Palmata(L.)));红藻提取物(紫菜属,海萝藻和掌状红皮藻);海藻酸铵,海藻酸钙,海藻酸钾,海藻酸钠,海藻酸钠钙,海藻酸;紫草根提取物(紫朱牛舌草);椰子油脂肪酸和二乙醇胺的烷醇酰胺;烷基醇/其磷酸酯的亚烷基氧化物加合物(混合物);N-烷基(来自椰子油的C8-C18)胺乙酸酯;α-烷基-ω-羟基-聚(氧基乙烯);多香果(众香树(Pimenta Officinalis Lindl.));多香果油(众香树);多香果油树脂(众香树);烯丙基α-紫罗酮;邻氨基苯甲酸烯丙基酯;丁酸烯丙基酯;肉桂酸烯丙基酯;巴豆酸烯丙基酯;环己烷乙酸烯丙基酯;环己烷丁酸烯丙基酯;环己烷己酸烯丙基酯;环己烷丙酸烯丙基酯;环己烷戊酸烯丙基酯;S-烯丙基-L-半胱氨酸;4-烯丙基-2,6-二甲氧基苯酚;烯丙基二硫醚;2-乙基丁酸烯丙基酯;2-糠酸烯丙基酯;庚酸烯丙基酯;己酸烯丙基酯;己烯酸烯丙基酯;异硫氰酸烯丙基酯;异戊酸烯丙基酯;烯丙基硫醇;烯丙基甲基二硫醚;烯丙基甲基三硫醚;壬酸烯丙基酯;辛酸烯丙基酯;4-烯丙基苯酚;苯氧基乙酸烯丙基酯;苯基乙酸烯丙基酯;丙酸烯丙基酯;烯丙基丙基二硫醚;山梨酸烯丙基酯;烯丙基硫醚;硫代己酸烯丙基酯;硫代丙酸烯丙基酯;惕各酸烯丙基酯;10-十一碳烯酸烯丙基酯;戊酸烯丙基酯;苦杏仁油(Ffpa)(李属(Prunus Spp.));芦荟提取物(芦荟属(Aloe Spp.));α-戊基肉桂基异戊酸酯;α-乙基苄基丁酸酯;α-氢-ω-羟基聚(氧基乙烯);聚(氧基丙烯)聚(氧基乙烯)(15摩尔最小值)嵌段共聚物;低级芥酸菜籽油聚合物;α-异丁基苯乙基醇;α-甲基苄基丁酸酯;α-甲基苄基异丁酸酯;α-生育酚酸琥珀酸酯;蜀葵花(药蜀葵(Althea Officinalis L.));蜀葵属植物根(药蜀葵(Althea Officinalis L.));矾(Al和Nh4、K或Na的二硫酸盐);硫酸铝铵;硅酸铝钙;癸酸铝;辛酸铝;氢氧化铝;月桂酸铝;肉豆蔻酸铝;烟酸铝;油酸铝;棕榈酸铝;硫酸铝钾;脂肪酸的铝盐;硫酸铝钠;硬脂酸铝;硫酸铝;龙涎香酊;黄葵纯化物油(黄葵(Hibiscus Abelmoschus L.));黄葵籽(黄葵);黄葵籽油(黄葵);黄葵酊(黄葵);1-氨基-2-丙醇;2'-氨基苯乙酮;对氨基苯甲酸;4-氨基丁酸;Dl-(3-氨基-3-羧基丙基)二甲基氯化锍;4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)-酮;4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)-酮盐酸盐;3-[(4-氨基-2,2-二氧化-1h-2,1,3-苯并噻二嗪-5-基)氧基]-2,2-二甲基-N-丙基丙酰胺;氨基糖苷3'-磷酸转移酶Ii;来自乳酸乳球菌(Lactococcus Lactis)的氨肽酶;氨基三(亚甲基膦酸);钠盐;氨(也包括氯化铵);乙酸铵;碳酸氢铵;碳酸铵;酪蛋白酸铵;氯化铵;柠檬酸氢二铵;葡糖酸铵;氢氧化铵;异戊酸铵;果胶酸铵;过硫酸铵;磷酸氢二铵;磷酸二氢铵;硫酸铵;硫化铵;亚硫酸铵;戊醇;来自嗜热脂肪芽孢杆菌(Bacillus Stearothermophilus)的α-淀粉酶制剂;来自黄曲霉(Aspergillus Flavus)的淀粉酶;来自黑曲霉(Aspergillus Niger)的淀粉酶;来自米曲霉(Aspergillus Oryzae)的

淀粉酶;来自枯草芽孢杆菌(Bacillus Subtilis)的淀粉酶;丁酸戊酯;α-戊基肉桂醛;α-戊基肉桂醛二甲基缩醛;α-戊基肉桂基乙酸酯;α-戊基肉桂基醇;α-戊基肉桂基甲酸酯;癸酸戊酯;甲酸戊酯;2-糠酸戊酯;庚酸戊酯;己酸戊酯;异硫氰酸戊酯;戊基甲基二硫醚;辛酸戊酯;来自雪白根霉(Rhizopus Niveus)的淀粉葡糖苷酶;2-戊基-5或6-酮-1,4-二氧六环;水杨酸戊酯;阿米香树(香脂檀(Amyris Balsamifera L.));阿米香树油(香脂檀(Amyris Balsamifera L.));(2,4)-和(3,5)-和(3,6)-二甲基-3-环己烯基甲醛;反式-茴香脑;当归(当归属(Angelica Spp.));β-当归内酯;当归根(当归属(Angelica Spp.));当归根提取物(欧白芷(Angelica Archangelica L.));当归根油(欧白芷(Angelica Archangelica L.));当归籽(当归属(Angelica Spp.));当归籽提取物(欧白芷);当归籽油(欧白芷);当归茎油(欧白芷);安哥拉草(Roccella Fuciformis Ach.);安古斯图拉树皮(Galipea Offincinalis Hancock);安古斯图拉树皮提取物(Galipea Officinalis Hancock);茴香醛丙二醇缩醛;茴芹(茴芹(Pimpinella Anisum L.));茴芹油(茴芹);八角茴香(八角(Illicium Verum Hook,F.));八角茴香油(八角);茴香酸;茴香醚;茴香基乙酸酯;茴香醇;丁酸茴香酯;甲酸茴香酯;苯基乙酸茴香酯;丙酸茴香酯;胭脂树提取物(红木(Bixa Orellana L.));胭脂树种子(红木(Bixa Orellana L.));阿诺克索牟(Anoxomer);磺化无烟煤;β-Apo-8'-胡萝卜醛;苹果香精;杏仁油(杏(Prunus Armeniaca L.));阿拉伯半乳聚糖;L-阿拉伯糖;L-精氨酸;山金车花(Arnica Spp.);竹芋淀粉;蒿属植物(蒿属(Artemisia Spp.));蒿属植物提取物;蒿属植物油;朝鲜蓟叶(菜蓟(Cynara Scolymus L.));阿魏液体提取物(阿魏(Ferula Assafoetida L.));阿魏胶(阿魏);阿魏油(阿魏);抗坏血酸;棕榈酸抗坏血酸酯;硬脂酸抗坏血酸酯;L-天冬酰胺;芦笋种子和根提取物;阿斯巴甜;L-天冬氨酸;用于柠檬酸的发酵生产的黑曲霉(Aspergillus Niger);虾青素;偶氮二甲酰胺;来自溶壁微球菌(Micrococcus Lysodeikticus)的细菌过氧化氢酶;贝克酵母提取物;贝克酵母聚糖;贝克酵母蛋白质;香蜂草(香蜂花(Melissa Officinalis L.));香蜂草叶(香蜂花);香蜂草叶提取物(香蜂花);香蜂草油(香蜂花);胶枞针和细枝(香脂冷杉(Abies Balsamea (L.)Mill.));胶枞油(香脂冷杉);胶枞油树脂(香脂冷杉);秘鲁香脂(秘鲁香树(Myroxylon Pereirae Klotzsch));秘鲁香脂油(秘鲁香树);罗勒(罗勒(Ocimum Basilicum L.));罗勒灌木(Ocimum Minimum L.);罗勒提取物(罗勒);罗勒油(罗勒);罗勒油树脂(罗勒);月桂(月桂(Laurus Nobilis L.));甜月桂叶提取物(月桂);甜月桂叶油(月桂);西印度月桂叶提取物(西印度月桂(Pimenta Acris Kostel));西印度月桂叶油(众香(Pimenta Racemosa (Mill.)J.W.Moore));西印度月桂叶油树脂(西印度月桂);山毛榉木馏油(水青冈属(Fagus Spp.));蜂蜡;白蜂蜡;膨润土;苯甲醛;苯甲醛二甲基缩醛;苯甲醛甘油基缩醛;苯甲醛丙二醇缩醛;苯;苯硫酚;2-苯并呋喃甲醛;苯甲酸;安息香;安息香,树脂(安息香属(Styrax Spp.));二苯甲酮;苯并噻唑;N-苯甲酰基邻氨基苯甲酸;过氧化苯甲酰;乙酸苄酯;乙酰乙酸苄酯;苄醇;苯甲酸苄酯;苄基丁基醚;丁酸苄酯;肉桂酸苄酯;2,3-二甲基巴豆酸苄酯;苄基二硫醚;苄基乙基醚;甲酸苄酯;3-苄基-4-庚酮;己酸苄酯;异丁酸苄酯;异硫氰酸苄酯;异戊酸苄酯;乙酰丙酸苄酯;苄硫醇;苄基甲氧基乙基缩醛;反-2-甲基-2-丁烯酸苄酯;苄基甲基硫醚;壬酸苄酯;苯基乙酸苄酯;丙酸苄酯;水杨酸苄酯;佛手柑油(香柠檬(Citrus Aurantium L.Subsp.Bergamia Wright Et Arn.));甜菜碱,生物素;联苯;甜味桦木油(坚桦木(Betula Lenta L.));桦木焦油(垂枝桦和相关的桦木属(Betula Pendula Roth And

Related Betula Spp.))；没药烯；双(2,5-二甲基-3-呋喃基)二硫醚；双(2-甲基-3-呋喃基)二硫醚；双(1-巯基丙基)硫醚；双-(甲基硫代)甲烷；双(2-甲基苯基)二硫醚；双(2-甲基-3-呋喃基)四硫醚；黑莓树皮提取物(悬钩子属(Rubus,Spp.)，黑莓亚属(Eubatus))；黑莓果实提取物，卢氏黑黄檀油(紫檀(Aniba Rosaeodora Ducke))；博路都树叶(博路都树(Peumus Boldus Mol.))；干燥狐鲣；硼砂；硼酸；冰片；L-乙酸冰片酯；乙酸冰片酯；丁酸冰片酯；甲酸冰片酯；异戊酸冰片酯；戊酸冰片酯；波罗尼花纯化物(波罗尼亚浸膏，Boronia Megastigma Nees)；牛肉清汤；蔬菜；烟；β-波旁烯；菠萝蛋白酶；溴化植物油；泻根根部(泻根属(Bryonia Spp.))；南非香叶木叶(短叶布枯(Barosma Betulina)和圆叶布枯(Barosma Crenulata))；南非香叶木叶提取物，南非香叶木叶油(布枯属(Barosma Spp.))；睡菜叶(睡菜(Menyanthes Trifoliata L.))；睡菜叶提取物(睡菜)；丁二烯-苯乙烯橡胶；4-(甲基硫代)丁醛；丁醛二苄基硫缩醛；N-丁烷；1,3-丁烷二硫醇；1,2-丁烷二硫醇；2,3-丁烷二硫醇；1-丁烷硫醇；2-丁醇；2-丁酮；丁-3-酮-2-基丁酸酯；(E)-2-丁烯酸；4-(2-亚丁烯基)-3,5,5-三甲基环己-2-烯-1-酮；3-丁烯基异硫氰酸酯；1-丁烯-1-基甲基硫醚；黄油酸；黄油酯；黄油脂肪(酶改性，添加丁酸)；黄油蒸馏轻组分；乙酸丁酯；乙酰乙酸丁酯；丁醇；丁胺；仲丁胺；邻氨基苯甲酸丁酯；丁基羟基茴香醚；丁基羟基甲苯；2-丁基-2-丁烯醛；丁酸丁酯；丁酰乳酸丁酯；α-丁基肉桂醛；肉桂酸丁酯；2-癸烯酸丁酯；1,3-丁二醇；丁基乙基二硫醚；丙二酸丁乙酯；甲酸丁酯；2-丁基呋喃；庚酸丁酯；己酸丁酯；对羟基苯甲酸丁酯；α-丁基-ω-羟基聚(氧基乙烯)聚(氧基丙烯)；3-亚丁基苯酞；异丁酸丁酯；2-丁基异硫氰酸酯；异硫氰酸丁酯；异戊酸丁酯；乳酸丁酯；月桂酸丁酯；乙酰丙酸丁酯；N-丁基2-甲基丁酸酯；β-(甲基硫代)丙烯酸丁酯；丁基β-萘基醚；油酸丁酯硫酸盐；2-丁基-5或6-酮-1,4-二氧六环；苯基乙酸丁酯；3-N-丁基苯酞；丙酸丁酯；水杨酸丁酯；硬脂酸丁酯；丁基硫醚；10-十一碳烯酸丁酯；戊酸丁酯；丁醛；丁酰胺；丁酸；2-丁酰呋喃；杜松萜烯；咖啡因；白千层油(白千层(Melaleuca Leucadendron L.))；乙酸钙；抗坏血酸钙；苯甲酸钙；溴酸钙；癸酸钙；辛酸钙；碳酸钙；酪蛋白酸钙；氯化钙；柠檬酸钙；二谷氨酸钙；延胡索酸钙；葡糖酸钙；甘油磷酸钙；六偏磷酸钙；氢氧化钙；次磷酸钙；碘酸钙；乳酸钙；乳糖醛酸钙；月桂酸钙；木质素磺酸钙；肉豆蔻酸钙；油酸钙；氧化钙；棕榈酸钙；泛酸钙；泛酸钙、氯化钙复盐；过氧化钙；磷酸氢钙；磷酸二氢钙；磷酸三钙；植酸钙；丙酸钙；焦磷酸钙；脂肪酸的钙盐；硅酸钙；山梨酸钙；硬脂酸钙；硬脂酰基-2-乳酸钙；硫酸钙；咖伦巴根(非洲防己(Jatrorrhiza Palmata(Lam.)Miers))；咖伦巴根提取物(非洲防己)；茨烯；乙酸龙脑烯酯；α-龙脑烯醇；D-樟脑；日本白樟脑油(香樟(Cinnamomum Camphora(L.)Nees Et Eberm.))；樟脑油；Formosan Ho-Sho叶(香樟)；卡南加油(依兰(Cananga Odorata Hook.F.And Thoms.))；小烛树蜡(来自小烛树(Euphorbia Cerifera)的茎和枝干的蜡)；高里假丝酵母(Candida Guilliermondii)；溶脂念珠菌(Candida Lipolytica)；角黄素，酸豆(刺山柑(Capparis Spinosa L.))；己内酰胺，辣椒(辣椒属(Capsicum Spp.))；辣椒提取物(辣椒属)；辣椒油树脂(辣椒属)；焦糖；葛缕子(葛缕子(Carum Carvi L.))；黑种籽草(黑香种草(Nigella Sativa L.))；葛缕子油(葛缕子(Carum Carvi L.))；来自黑曲霉(Aspergillus Niger)的糖酶和纤维；来自枯草芽孢杆菌(Bacillus Subtilis)的糖酶和蛋白酶混合物；来自米曲霉(Aspergillus Oryzae)的糖酶；来自解淀粉芽孢杆菌(Bacillus Amyloliquefaciens)的糖酶；来自地衣形芽孢杆菌(Bacillus Licheniformis)的糖酶；来自枯草芽孢杆菌(Bacillus Subtilis)的糖酶；来自

米根霉(Rhizopus Oryzae)的糖酶;来自酵母属(Saccharomyces Spp.)的糖酶;糖酶/蛋白酶制剂,地衣形芽孢杆菌(Bacillus Licheniformis);二氧化碳;羧甲基纤维素;羧甲基纤维素,钠盐;羧甲基羟乙基纤维素;小豆蔻(小豆蔻(Elletaria Cardamomum(L.)Maton));小豆蔻油树脂;小豆蔻种子油(小豆蔻);3-蒈烯;洋红(胭脂虫(Coccus Cacti L.));巴西棕榈蜡(巴西棕榈树(Copernicia Cerifera(Arruda)Mart.));L-肉碱稻子豆提取物(长角豆(Ceratonia Siliqua L.));β-胡萝卜素;角叉菜胶;角叉菜胶的铵盐;角叉菜胶的铵盐(具有聚山梨醇酯80);角叉菜胶和角叉菜胶的盐;角叉菜胶的钙盐;角叉菜胶的钙盐(具有聚山梨醇酯80);角叉菜胶的钾盐;角叉菜胶的钾盐(具有聚山梨醇酯80);角叉菜胶盐,具有聚山梨醇酯80;角叉菜胶的钠盐;角叉菜胶的钠盐(具有聚山梨醇酯80);具有聚山梨醇酯80的角叉菜胶;胡萝卜(野胡萝卜(Daucus Carota L.));脱水胡萝卜;胡萝卜提取物;胡萝卜油(野胡萝卜);香荆芥酚;香芹基乙基醚;香芹醇;4-香芹聪醇;香芹薄荷醇;香芹酮;顺-香芹酮氧化物;乙酸香芹酯;棕榈酸香芹酯;丙酸香芹酯;β-石竹烯;β-石竹烯醇;石竹烯醇;β-石竹烯醇乙酸酯;石竹烯醇乙酸酯;β-石竹烯氧化物;无苦味的药鼠李提取物(波希鼠李(Rhamnus Purshiana Dc.));卡藜树皮提取物(巴豆属(Croton Spp.));卡藜树皮油(巴豆属);酪蛋白,桂花子(肉桂(Cinnamomum Cassia Blume));金合欢纯化物(金合欢(Acacia Farnesiana(L.)Willd.));海狸香提取物(蓖麻属(Castor Spp.));海狸香液体(蓖麻属);蓖麻油(蓖麻(Ricinus Communis L.));来自黑曲霉(Aspergillus Niger)的过氧化氢酶;来自牛科动物肝脏的过氧化氢酶;来自特异青梅菌(Penicillium Notatum)的过氧化氢酶;黑儿茶提取物(儿茶(Acacia Catechu Willd.));黑儿茶粉末(儿茶);香柏叶油(北美香柏(Thuja Occidentalis L.));香柏木油醇;香柏木油萜烯;(+)-雪松醇;乙酸柏木酯;芹菜籽(旱芹(Apium Graveolens L.));芹菜籽提取物(旱芹);芹菜籽提取物固体(旱芹);芹菜籽油(旱芹);芹菜籽油树脂;来自长梗木霉(Trichoderma Longibrachiatum)的纤维素;乙酸纤维素;二乙氨基乙基纤维素;甲基纤维素;甲基乙基纤维素;微晶纤维素;三乙酸纤维素;矢车菊(矢车菊(Centaurium Umbellatum Gilib.));谷类固体;氢化鲸蜡醇;黄春菊花(母菊(Matricaria Chamomilla L.));黄春菊花(果香菊(Anthemis Nobilis L.));匈牙利黄春菊花油(母菊);黄春菊花油(果香菊();罗马黄春菊花提取物(果香菊();碳烟调味剂;野生樱桃树皮提取物(美国樱桃(Prunus Serotina Ehrh.));樱桃月桂叶(桂樱(Prunus Laurocerasus L.));樱桃月桂油(桂樱)(Ffpa);樱桃月桂水(桂樱);樱桃核提取物(李属(Prunus Spp.));山萝卜(蜡叶峨参(Anthriscus Cerefolium(L.)Hoffm.));山萝卜提取物(蜡叶峨参(Anthriscus Cerefolium L.));栗子叶(美国栗树(Castanea Dentata(Marsh.)Borkh.));栗子叶提取物(美国栗树);栗子叶提取物固体(美国栗树);糖胶树胶(人心果(Manilkara Zapotilla Gilly)和曼尼卡拉糖胶树(M.Chicle Gilly));委内瑞拉糖胶树胶(Manilkara Williamsii Standley和相关的属);菊苣提取物(菊苣(Cichorium Intybus L.));托帕匡斯麻风树(卡亚(也被称为麻风树属));芡茨棕树胶(人心果(Manilkara Zapotilla Gilly));印度当药(印度獐牙菜(Swertia Chirata Buch.-Ham.));印度当药提取物(印度獐牙菜(Swertia Chirata Buch.-Ham.));香葱(北葱(Allium Schoenoprasum L.));氯;二氧化氯;氯水溶液;氯仿;氯甲基甲基醚;氯五氟乙烷;叶绿素;胆酸;酒石酸氢胆碱;氯化胆碱;氯化胆碱(也包括胆碱);菊花提取物;凝乳酶制剂;黑曲霉泡盛变种(Aspergillus Niger Var.Awamori);凝乳酶制剂;大肠杆菌K-12;凝乳酶制剂;马克斯克鲁

维酵母变种(Kluyveromyces Marxianus Var.Lactis);红金鸡纳树皮(鸡纳树(Cinchona Succirubra Pav.)或其杂交种);红金鸡纳树皮提取物(鸡纳树或其杂交种);黄金鸡纳树皮(金鸡纳树属(Cinchona Spp.));黄金鸡纳树皮提取物(金鸡纳树属);金鸡纳树提取物(金鸡纳树属);1,4-桉树脑;肉桂醛;肉桂醛乙二醇缩醛;肉桂醛丙二醇缩醛;肉桂酸;肉桂(樟属(Cinnamomum Spp.));肉桂皮提取物(樟属);肉桂皮油(樟属);锡兰、中国或西贡的肉桂皮油树脂(樟属);肉桂叶油(樟属);精馏肉桂叶油;乙酸肉桂基酯;肉桂醇;苯甲酸肉桂基酯;丁酸肉桂基酯;肉桂酸肉桂基酯;甲酸肉桂基酯;异丁酸肉桂基酯;异戊酸肉桂基酯;苯乙酸肉桂基酯;丙酸肉桂基酯;顺-和反-乙基2,4-二甲基-1,3-二氧戊环-2-乙酸酯;顺-和反-5-乙基-4-甲基-2-(2-丁基)-噻唑啉;顺和反-5-乙基-4-甲基-2-(2-甲基丙基)-噻唑啉;顺-和反-2-异丁基-4-甲基-1,3-二氧戊环;顺-和反-2-异丙基-4-甲基-1,3-二氧戊环;顺-和反-L-巯基-对薄荷烷-3-酮;(+-)-顺-和反-2-甲基-2-(4-甲基-3-戊烯基)环丙甲醛;(+/-)顺-和反-2-戊基-4-丙基-1,3-氧硫杂环己烷;顺-4-癸烯醇;顺-4-庚烯醛;顺-3-己烯酸;顺-3-己烯-1-醇;顺-3-己烯-1-基乙酸酯;顺-3-己烯基乙酰乙酸酯;顺-3-己烯基丁酸酯;顺-3-己烯基顺-3-己烯酸酯;顺-3-己烯基甲酸酯;顺-3-己烯基己酸酯;顺-5-异丙烯基-顺-2-甲基环戊烷-1-甲醛;顺-3-壬烯-1-醇;顺-9-十八碳烯基乙酸酯;顺-5-辛烯酸;顺-4-辛烯醇;顺-2-辛烯醇;柠檬醛;柠檬醛二乙基缩醛;柠檬醛二甲基缩醛;柠檬醛甘油基缩醛;柠檬醛丙二醇缩醛;柠檬酸;甘油的柠檬酸酯和脂肪酸酯;香茅醛;香茅油(亚香茅(Cymbopogon Nardus Rendle));Dl-香茅醇;香茅氧基乙醛;乙酸香茅基酯;邻氨基苯甲酸香茅基酯;丁酸香茅基酯;甲酸香茅基酯;异丁酸香茅基酯;苯乙酸香茅基酯;丙酸香茅基酯;反-2-甲基-2-丁烯酸香茅基酯;戊酸香茅基酯;柑橘皮提取物(柑橘属(Citrus Spp.));柑橘红色2号;灵猫香纯化物(灵猫净油(Viverra Civetta Schreber And Viverra Zibetha Schreber));鼠尾草(香紫苏(Salvia Sclarea L.));快乐鼠尾草纯化物;鼠尾草油(香紫苏(Salvia Sclarea L.));快乐鼠尾草凝结物;黏土;凹凸棒石;丁香苞提取物(番樱桃属(Eugenia Spp.));丁香苞油(番樱桃属);丁香苞油树脂(番樱桃属);丁香叶油(番樱桃属);三叶草(车轴草属(Trifolium Spp.));三叶草提取物(车轴草属);三叶草草药馏出物;三叶草油(车轴草属);红三叶草提取物固体(红车轴草);丁香(番樱桃属(Eugenia Spp.));丁香茎油(番樱桃属);古柯叶提取物(非古柯碱麻醉的)(玻利维亚古柯树(Erythroxylon Coca Lam.));胭脂虫提取物(胭脂虫(Coccus Cacti L.));来自椰子油、棕榈仁油或这两种油的可可油替代物;来自棕榈油的可可油替代物;主要来自富油酸红花或向日葵油的可可油替代物;可可提取物;具有磺基琥珀酸二辛基钠的可可;椰子油;精制椰子油;咖啡浓缩物纯化物;咖啡提取物(Coffea Spp.);咖啡提取物固体;绿法国白兰地油;白法国白兰地油;胶原;燃烧产物气体;苦配巴香脂(苦配巴(Copaifera L.)的南美属);苦配巴香脂油(苦配巴的南美属);马尼拉的柯巴脂;葡糖酸铜;硫酸铜;胡荽(芫荽(Coriandrum Sativum L.));胡荽叶油(芫荽(Coriandrum Sativum L.));胡荽油(芫荽(Coriandrum Sativum L.));软木橡树(Quercus Spp.),玉米胚乳油;玉米麸质;玉米薄荷油;玉米须;玉米须提取物(玉蜀黍(Zea Mays L.));玉米须油(玉蜀黍(Zea Mays L.));玉米淀粉;蜡质玉米淀粉;玉米浆;玉米糖浆;艾菊(香脂菊(Chrysanthemum Balsamita L.));广木香根油(木香(Saussurea Lappa Clarke));脱脂的棉籽面粉;部分脱脂、煮熟的棉籽面粉;部分脱脂、煮熟、烘烤的棉籽面粉;无腺体的生棉籽仁;无腺体经烘烤的棉籽仁;香豆酮-

茚树脂;间甲酚;对甲酚;邻甲酚;王冠胶(Crown Gum);荜澄茄(毕澄茄(Piper Cubeba L.F.));荜澄茄油(毕澄茄);毕澄茄醇;小茴香(孜然芹属(Cuminum Cyminum L.));枯名醛;小茴香油(孜然芹属);碘化亚铜;凝胶多糖;黑醋栗芽纯化物(黑茶藨子(Ribes Nigrum L.));黑醋栗汁;黑醋栗叶(黑茶藨子(Ribes Nigrum L.));β-环糊精;环十七碳-9-烯-1-酮;环己烷;环己烷乙酸;环己烷甲酸;乙酸环己基乙酯;环己酮;环己酮二乙基缩酮;2-环己烯酮;乙酸环己基酯;环己胺;邻氨基苯甲酸环己基酯;丁酸环己基酯;肉桂酸环己基酯;甲酸环己基酯;异戊酸环己基酯;环己基甲基吡嗪;丙酸环己基酯;环紫罗酮;环戊硫醇;环戊酮;2-环戊基环戊酮;环丙基甲酸(2-异丙基-5-甲基-环己基)-酰胺;N-环丙基-5-甲基-2-异丙基环己烷甲酰胺;N-环丙基-反-2-顺-6-壬二烯酰胺;甲基环戊烯醇酮丁酸酯;甲基环戊烯醇酮丙酸酯;对伞花烃;L-半胱氨酸;L-半胱氨酸单盐酸盐;Dl-胱氨酸;L-胱氨酸;玳玳果皮油;达玛胶(娑罗属龙脑香料(Shorea Dipterocarpaceae));α-突厥酮;δ-突厥酮;反-α-突厥酮;达米阿那叶(特那树(Turnera Diffusa Willd.));蒲公英流体提取物(蒲公英属(Taraxacum Spp.));蒲公英根提取物固体(蒲公英属);印蒿油(印蒿(Artemesia Pallens Wall.));2-反,4-反-癸二烯醛;(E,E)-2,4-癸二烯-1-醇;δ-癸内酯;γ-癸内酯;燕根(Decalepis Hamiltonii)提取物;癸醛;癸醛二甲基缩醛;癸醛丙二醇缩醛;癸酸;1-癸醇;3-癸醇;3-癸酮;2-癸酮;2-反-4-反-7-顺-癸三烯醛;9-癸烯醛;2-癸烯醛;4-癸烯醛;4-癸烯酸;(E)-2-癸烯酸;9-癸烯酸;6-癸烯酸;5-癸烯酸;1-癸烯-3-醇;8-癸烯-5-内酯;9-癸烯-5-内酯;7-癸烯-4-内酯;9-癸烯-2-酮;3-癸烯-2-酮;6-[5(6)-癸烯酰基氧基]癸酸;4-癸烯基乙酸酯;顺-乙酸癸基酯;丁酸癸基酯;2-癸基呋喃;丙酸癸基酯;鹿舌固体提取物;脱水甜菜;脱氢乙酸;脱氢二氢紫罗醇;脱氢二氢紫罗酮;脱氢薄荷呋喃内酯;脱氢诺卡酮;8,9-脱氢茶香螺酮;脱氧胆酸;葡聚糖(平均分子量小于100,000);糊精;右旋糖;二乙酰基,二-N-烷基(来自椰子油的C8-C18)二甲基氯化铵;二烯丙基多硫醚;二烯丙基三硫醚;二戊基酮;来自米曲霉(Aspergillus Oryzae)的淀粉糖化酶;硅藻土;二苄醚;2,2-二溴-3-次氮基丙酰胺;4,4-二丁基-γ-丁内酯;癸二酸二丁基酯;二氯二氟甲烷;二环己基二硫醚;来自大豆油脂肪酸(C16-C18)的二乙醇酰胺缩合物;来自经汽提的椰子油脂肪酸(C10-C18)的二乙醇酰胺缩合物;二乙基氨基乙醇;二乙基二硫醚;二甘醇二硬脂酸酯;二亚乙基三胺;与表氯醇交联的二亚乙基三胺;苹果酸二乙基酯;丙二酸二乙基酯;3,5-二乙基-2-甲基吡嗪;2,5-二乙基-3-甲基吡嗪;2,3-二乙基-5-甲基吡嗪;2,3-二乙基吡嗪;癸二酸二乙基酯;琥珀酸二乙基酯;二乙基硫醚;酒石酸二乙基酯;2,5-二乙基四氢呋喃;二乙基三硫醚;(+/-)-顺-和反-3,5-二乙基-1,2,4-三硫杂环戊烷;二糠基醚;2,4-二糠基呋喃;二-2-呋喃基甲烷;二香叶基醚;二氢-α-紫罗酮;二氢香芹醇;顺-二氢香芹酮;乙酸二氢香芹基酯;二氢香豆素;6,7-二氢-2,3-二甲基-5h-环戊吡嗪;4,5-二氢-2,5-二甲基-4-氧代-3-呋喃基丁酸酯;(+/-)-二氢金合欢醇;乙酸二氢高良姜基酯;二氢-β-紫罗醇;二氢-β-紫罗酮;3,6-二氢-4-甲基-2(2-甲基丙烯-1-基)-2h-吡喃;5,7-二氢-2-甲基噻吩并(3,4-D)嘧啶;(+/-)-二氢薄荷内酯;二氢诺卡酮;(+/-)-顺-和反-1,2-二氢紫苏醛;4,5-二氢-3(2h)噻吩酮;二氢-2,4,6-三甲基-4h-1,3,5-二噻嗪;二氢-2,4,6-三(2-甲基丙基)-4h-1,3,5-二噻嗪;二羟基丙酮(二聚体);二羟基丙酮(单聚体);二羟基苯乙酮;2,4-二羟基苯甲酸;3,4-二羟基苯甲酸;2,5-二羟基-1,4-二噻烷;5,7-二羟基-2-(3-羟基-4-甲氧基苯基)-色满-4-酮;3',7-二羟基-4'-甲氧基黄烷;二异戊基二硫醚;二异戊基三硫醚;己二酸二异丁基酯;二异丁

基酮;硫代苹果酸二异戊基酯;己二酸二异丙基酯;二异丙基二硫醚;二异丙基三硫醚;硫代二丙酸二月桂基酯;莳萝(莳萝(Anethum Graveolens L.));莳萝油(莳萝(Anethum Graveolens L.));印度莳萝种子(莳萝属(Anethum Spp.));莳萝种子油(印度莳萝(Anethum Sowa Roxb.));戊二酸二薄荷基酯;二巯基甲烷;间二甲氧基苯;对二甲氧基苯;1,2-二甲氧基苯;N1-(2,4-二甲氧基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;1,1-二甲氧基乙烷;1,1-二甲氧基-反-2-己烯;2,6-二甲氧基苯酚;N-[2-(3,4-二甲氧基苯基)乙基]-3,4-二甲氧基肉桂酸酰胺;3,4-二甲氧基-1-乙烯基苯;3,6-二甲基-2,3,3a,4,5,7a-六氢苯并呋喃;2,4-二甲基苯乙酮;1,4-二甲基-4-乙酰基-1-环己烯;2,4-二甲基-5-乙酰基噻唑;己二酸二甲基酯;二甲基胺;二甲基胺-表氯醇共聚物;2,4-二甲基茴香醚;2,4-二甲基苯甲醛;2,3-二甲基苯并呋喃;对,α-二甲基苄醇;巴豆酸二甲基苄基卡宾基酯;己酸二甲基苄基卡宾基酯;α,α-二甲基苄基异丁酸酯;3,5-二甲基-1,2-环戊二酮;3,4-二甲基-1,2-环戊二酮;(+/-)-反-和顺-5-(2,2-二甲基环丙基)-3-甲基-2-戊烯醛;二甲基二烷基氯化铵;二碳酸二甲基酯;2(3),5-二甲基-6,7-二氢-5h-环戊吡嗪;2,5-二甲基-2,5-二羟基-1,4-二噻烷;2,4-二甲基-1,3-二氧戊环;二甲基乙醇胺;2,5-二甲基-4-乙氧基-3(2h)-呋喃酮;2,5-二甲基-4-乙基噁唑;4-(1,1-二甲基乙基)酚;4,5-二甲基-2-乙基-3-噻唑啉;2,5-二甲基呋喃;2,5-二甲基-3(2h)-呋喃酮;2,5-二甲基-3-呋喃硫醇;2,5-二甲基-3-呋喃硫醇乙酸酯;2,6-二甲基-4-庚醇;2,6-二甲基-3-((2-甲基-3-呋喃基)硫代)-4-庚酮;2,6-二甲基-5-庚烯醛;2,6-二甲基-5-庚烯醛丙二醇缩醛;2,6-二甲基-6-庚烯-1-醇;4,5-二甲基-3-羟基-2,5-二氢呋喃-2-酮;3,6-二甲基-2-异丁基吡嗪;3,5-二甲基-2-异丁基吡嗪;4,5-二甲基-2-异丁基噻唑;4,5-二甲基-2-异丁基-3-噻唑啉;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)-5,5-二甲基咪唑烷-2,4-二酮;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)咪唑烷-2,4-二酮;(+/-)-N,N-二甲基薄荷基琥珀酰胺;2,5-二甲基-3-巯基四氢呋喃;2,5-二甲基-4-甲氧基-3(2h)-呋喃酮;2,6-二甲基-10-亚甲基-2,6,11-十二碳三烯醛;3,9-二甲基-6-(1-甲基乙基)-1,4-二氧杂螺[4.5]癸-2-酮;2,2-二甲基-5-(1-甲基丙烯-1-基)四氢呋喃;(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-醇;4,8-二甲基-3,7-壬二烯-2-酮;顺-,4,8-二甲基-3,7-壬二烯-2-酮;4,8-二甲基-3,7-壬二烯-2-酮;反-4,8-二甲基-3,7-壬二烯-2-基乙酸酯、(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-基乙酸酯;2,4-二甲基-4-壬醇;(E)-2-(3,7-二甲基-2,6-辛二烯基)环戊酮;N-3,7-二甲基-2,6-辛二烯基环丙基甲酰胺;2-反-3,7-二甲基辛-2,6-二烯基2-乙基丁酸酯;2,6-二甲基辛醛;3,7-二甲基辛醛;3,7-二甲基-1-辛醇;(E)-3,7-二甲基-1,5,7-辛三烯-3-醇;3,7-二甲基-6-辛烯酸;2,4-二甲基-3-噁唑啉;2,4-二甲基-2-戊烯酸;α,α-二甲基苯乙基乙酸酯;α,α-二甲基苯乙醇;N,N-二甲基苯乙胺;α,α-二甲基苯乙基丁酸酯;α,α-二甲基苯乙基甲酸酯;二甲基聚硅氧烷;2,5-二甲基吡嗪;2,6-二甲基吡嗪;2,3-二甲基吡嗪;2,6-二甲基吡啶;2,4-二甲基吡啶;2,5-二甲基吡咯;对,α-二甲基苯乙烯;琥珀酸二甲基酯;二甲基亚砜;2,5-二甲基噻唑;4,5-二甲基噻唑;2-(2-丁基)-4,5-二甲基-3-噻唑啉;2,5-二甲基-3-硫代异戊酰基呋喃;3,4-二甲基噻吩;2,6-二甲基苯硫酚;二甲基三硫醚;3,5-二甲基-1,2,4-三硫杂环戊烷;2,4-二甲基-5-乙烯基噻唑;己二酸二辛基酯;磺基琥珀酸二辛基钠;二苯醚;1,3-二苯基-2-丙酮;磷酸氢二钾;1,1-二丙氧基乙烷;己二酸二丙基酯;二丙基三硫醚;二仲丁基二硫醚;柠檬酸二钠;氰基二硫代亚氨碳酸

二钠;乙烯双二硫代氨基甲酸二钠;鸟苷酸二钠;肌苷酸二钠;琥珀酸二钠;二-(丁-3-酮-1-基)硫醚;2,5-二硫杂己烷;1,4-二噻烷;2,8-二噻农-4-烯-4-甲醛;2,2'-(二硫代二亚甲基)二呋喃;克里特白藓(白藓状牛至(Origanum Dictamnus L.));白藓(Dittany/Fraxinella)根(白藓(Dictamnus Albus L.));双香草醛;Dl-樟脑;D-柠檬烯-10-醇;Dl-异亮氨酸;Dl-异薄荷酮;Dl-缬氨酸;ε-十二内酯;γ-十二内酯;δ-十二内酯;十二醛二甲基缩醛;(Z)-4-十二烯醛;2-十二烯醛;11-十二碳烯酸;9-十二碳烯-5-内酯;丁酸十二烷基酯;没食子酸十二烷基酯;异丁酸十二烷基酯;乳酸十二烷基酯;N-十二烷基硫醇;α-(对十二烷基苯基)-ω-羟基聚(氧基乙烯);丙酸十二烷基酯;匍匐冰草提取物(匍匐冰草(Agropyron Repens(L.)Beauv.));D-8-对薄荷烯-1,2-环氧化物;血竭提取物(黄藤属(Daemonorops Spp.)或其他植物来源);干燥的水藻粉;Edta钙二钠;Edta二钠;Edta二钠铁;Edta四钠;(2e,6e,8e)-N-(2-甲基丙基)-2,6,8-癸三烯酰胺;蛋清溶菌酶;接骨木花(美洲接骨木(Sambucus Canadensis L.)或西洋接骨木(Sambucus Nigra L.));接骨木花提取物(美洲接骨木或西洋接骨木);接骨木叶(西洋接骨木);土木香根提取物(土木香(Inula Helenium L.));土木香根油(土木香);榄香脂胶;榄香脂油(橄榄属(Canarium Spp.));酶改性的脂肪;细菌酶;蛋白水解酶;与氨交联的表氯醇;(+/-)-2,8-环硫代-顺-对薄荷烷;2,3-环氧癸醛;4,5-环氧-(E)-2-癸烯醛;2,3-环氧庚醛;2,3-环氧辛醛;环氧氧代佛尔酮;ε-癸内酯;加拿大蓬油(加拿大蓬(Erigeron Canadensis L.));(?)-圣草酚;异抗坏血酸;来自米黑毛霉(Mucor Miehei)的酯酶-脂酶;草蒿脑;1,2-乙二硫醇;乙烷-1,1-二硫醇;乙磺酸;2-(1-(二氟-((三氟乙烯基)氧基)甲基)-1,2,2,2-四氟乙氧基)-1,1,2,2-四氟与四氟乙烷的聚合物;乙硫醇;对乙氧基苯甲醛;N-[(乙氧基羰基)甲基)-对薄荷烷-3-甲酰胺;2-乙氧基-3-乙基吡嗪;2-乙氧基-3-异丙基吡嗪;1-乙氧基-3-甲基-2-丁烯;邻-(乙氧基甲基)苯酚;乙氧喹;2-乙氧基噻唑;(+-)-乙基3-羟基-2-甲基丁酸酯;松香酸乙基酯;(对甲苯氧基)乙酸乙酯;乙酸乙酯;2-(甲基硫代)乙酸乙酯;乙酰乙酸乙酯;乙酰乙酸乙酯乙二醇缩酮;(+/-)-乙基3-乙酰氧基-2-甲基丁酸酯;5-乙酰氧基辛酸乙酯;硫代乙酸S-乙基2-乙酰基氨基酯;α-乙酰基肉桂酸乙酯;2-乙酰基己酸乙酯;2-乙酰基辛酸乙酯;2-乙酰基-3-苯基丙酸乙酯;1-乙基-2-乙酰基吡咯;4-(乙酰基硫代)丁酸乙酯;乌头酸乙酯(混合酯);丙烯酸乙酯;乙醇;乙胺;对茴香酸乙酯;邻氨基苯甲酸乙酯;4-乙基苯甲醛;苯甲酸乙酯;苯甲酰基乙酸乙酯;巴西酸乙酯;2-乙基丁基乙酸酯;2-乙基丁醛;丁酸乙酯;3-(甲基硫代)丁酸乙酯;2-乙基丁酸;乙基纤维素;肉桂酸乙酯;巴豆酸乙酯;环己烷甲酸乙酯;环己烷丙酸乙酯;反-2,顺-4-癸二烯酸乙酯;癸酸乙酯;2,4,7-癸三烯酸乙酯;反-2-癸烯酸乙酯;反-4-癸烯酸乙酯;4,5-二氢-2,5-二甲基-4-氧代-3-呋喃甲酸乙酯;2-乙基-2,5-二氢-4-甲基噻唑;4-乙基-2,6-二甲氧基苯酚;2(4)-乙基-4(2),6-二甲基二氢-1,3,5-二噻嗪(异构体的混合物);2-乙基-4,5-二甲基噁唑;3-乙基-2,6-二甲基吡嗪;5-乙基-2,3-二甲基吡嗪;2,4-二氧代己酸乙酯;乙二胺;乙二胺四乙酸二钠盐;二氯乙烯;乙二醇二硬脂酸酯;乙二醇单丁基醚;乙二醇单乙基醚;乙二醇单苯基醚;环氧乙烷;环氧乙烷聚合物;环氧乙烷聚合物烷基加合物;环氧乙烷聚合物烷基加合物磷酸酯;环氧乙烷/环氧丙烷共聚物(平均分子量9,760-13,200);环氧乙烷/环氧丙烷共聚物(最小平均分子量1,900);环氧乙烷/环氧丙烷共聚物(平均分子量14,000);环氧乙烷/环氧丙烷共聚物;环氧乙烷/环氧丙烷共聚物(平均分子量3,500-4,125);环氧乙烷/环氧丙烷共聚物烷基加合物;环氧乙烷/环氧丙烷共聚物烷基加合物磷酸

酯;脂肪酸的乙酯(可食用);N-乙基邻氨基苯甲酸乙酯;2-乙基丁酸乙酯;2-乙基己酸乙酯;α-乙基-β-甲基-β-苯基缩水甘油酸乙酯;2-乙基-3-苯基丙酸乙酯;3-(乙基硫代)丁酸乙酯;甲酸乙酯;2-乙基呋喃;2-呋喃丙酸乙酯;乙基糠基醚;3-(糠基硫代)丙酸乙酯;3-(2-呋喃基)丙烯酸乙酯;4-乙基愈创木酚;庚酸乙酯;2-乙基-2-庚烯醛;4-庚烯酸乙酯;顺-,2-乙基己硫醇;己酸乙酯;2-乙基-1-己醇;2-乙基-2-己烯醛;顺-3-己烯酸乙酯;5-己烯酸乙酯;3-己烯酸乙酯;2-己烯酸乙酯;2-乙基己基苯甲酸酯;2-乙基己基3-巯基丙酸酯;1-乙基己基惕各酸酯;3-羟基丁酸乙酯;3-乙基-2-羟基-2-环戊烯-1-酮;5-羟基癸酸乙酯;乙基2-羟乙基硫醚;3-羟基己酸乙酯;(+/-)-乙基2-羟基-2-甲基丁酸酯;3-乙基-2-羟基-4-甲基环戊-2-烯-1-酮;5-乙基-2-羟基-3-甲基环戊-2-烯-1-酮;5-乙基-3-羟基-4-甲基-2(5h)-呋喃酮;2-乙基-4-羟基-5-甲基-3(2h)-呋喃酮;(+/-)-乙基2-羟基-3-甲基戊酸酯;3-羟基辛酸乙酯;5-羟基辛酸乙酯;2-羟基-3-苯基丙酸乙酯;异丁酸乙酯;N-乙基-2-异丙基-5-甲基环己烷甲酰胺;异硫氰酸乙酯;异戊酸乙酯;乳酸乙酯;月桂酸乙酯;乙酰丙酸乙酯;乙酰丙酸乙酯丙二醇缩酮;乙基里哪基醚;乙基麦芽酚;乙基麦芽酚异丁酸酯;3-巯基丁酸乙酯;(+-)-乙基3-巯基-2-甲基丁酸酯;2-巯基-2-甲基丙酸乙酯;3-巯基丙酸乙酯;2-巯基丙酸乙酯;N-甲基邻氨基苯甲酸乙酯;2-甲基丁酸乙酯;乙基甲基二硫醚;2-甲基-3,4-戊二烯酸乙酯;4-甲基戊酸乙酯;3-甲基戊酸乙酯;2-甲基戊酸乙酯;2-甲基-3-戊烯酸乙酯;2-甲基-4-戊烯酸乙酯;3-乙基-2-甲基吡嗪;2-乙基-6-甲基吡嗪;2-乙基-5-甲基吡嗪;5-乙基-2-甲基吡啶;5-乙基-2-甲基噻唑;2-乙基-4-甲基噻唑;4-(甲基硫代)丁酸乙酯;3-(甲基硫代)-顺-2-丙烯酸乙酯;3-(甲基硫代)-2-丙烯酸乙酯;3-甲基硫代丙酸乙酯;2-乙基-3-甲基硫代吡嗪;3-(甲基硫代)-反-2-丙烯酸乙酯;5-(甲基硫代)戊酸乙酯;甲基-对甲苯基缩水甘油酸乙酯;2-乙基-(3或5或6)-Mop(85%)和2-甲基-(3或5或6)-Mop(13%);肉豆蔻酸乙酯;亚硝酸乙酯;N-乙基反-2-顺-6-壬二烯酰胺;壬酸乙酯;2-壬炔酸乙酯;十八烷酸乙酯;顺-4,7-辛二烯酸乙酯;(+/-)-4-乙基辛醛;辛酸乙酯;4-乙基辛酸;顺-4-辛烯酸乙酯;3-辛烯酸乙酯;反-2-辛烯酸乙酯;油酸乙酯;2-乙基-3,(5或6)-二甲基吡嗪;5-氧代癸酸乙酯;3-氧代己酸乙酯;棕榈酸乙酯;4-戊烯酸乙酯;对乙基苯酚;苯基乙酸乙酯;4-苯基丁酸乙酯;3-苯基缩水甘油酸乙酯;3-苯基丙酸乙酯;丙酸乙酯;2-(甲基二硫代)丙酸乙酯;乙基丙基二硫醚;乙基丙基三硫醚;2-乙基吡嗪;3-乙基吡啶;1-乙基-2-吡咯甲醛;丙酮酸乙酯;水杨酸乙酯;山梨酸乙酯;硫代乙酸乙酯;(+/-)-3-(乙基硫代)丁醇;2-乙基苯硫酚;惕各酸乙酯;反-2-己烯酸乙酯;反-2-甲基-2-戊烯酸乙酯;2-乙基-1,3,3-三甲基-2-降冰片烷醇;十一烷酸乙酯;10-十一碳烯酸乙酯;戊酸乙酯;乙基香草醛;乙基香草醛β-D-吡喃葡萄糖苷;乙基香草醛异丁酸酯;乙基香草醛丙二醇缩醛;桉油精;桉树油(蓝桉(Eucalyptus Globulus Labille));丁子香酚;乙酸丁子香基酯;苯甲酸丁子香基酯;甲酸丁子香基酯;异戊酸丁子香基酯;丁子香基甲基醚;(2e,6z,8e)-N-(2-甲基丙基)-2,6,8-癸三烯酰胺;金合欢醛;金合欢烯;金合欢醇;合成脂肪酸;合成脂肪醇;Fd&C蓝色2号;Fd&C蓝色1号;Fd&C蓝色2号铝色淀;Fd&C蓝色1号铝色淀;Fd&C蓝色2号钙色淀;Fd&C蓝色1号钙色淀;Fd&C绿色3号;Fd&C绿色3号铝色淀;Fd&C绿色3号钙色淀;Fd&C红色40号;Fd&C红色3号;Fd&C红色40号铝色淀;Fd&C红色3号;Fd&C红色40号钙色淀;Fd&C红色3号;Fd&C黄色6号;Fd&C黄色5号;Fd&C黄色5号铝色淀;Fd&C黄色6号铝色淀;Fd&C黄色5号钙色淀;Fd&C黄色6号钙色淀;D-葑酮;葑醇;普通茴香(茴香(Foeniculum Vulgare Mill.));甜茴香(球茎茴香(Foeniculum

Vulgare Mill.Var.Dulce(D.C.)Alef.))；甜茴香油(球茎茴香(Foeniculum Vulgare Mill.Var.Dulce(D.C.)Alef.))；胡芦巴(胡卢巴(Trigonella Foenum-Graecum L.))；胡芦巴提取物(胡卢巴)；胡芦巴油树脂(胡卢巴(Trigonella Foenum-Graecum L.))；棕色柠檬酸铁铵；氯化铁；柠檬酸铁；氧化铁；胨合铁(Ferric Peptonate)；磷酸铁；焦磷酸铁；焦磷酸铁钠；硫酸铁；亚铁氰化物盐；抗坏血酸亚铁；碳酸亚铁；柠檬酸亚铁；富马酸亚铁；葡糖酸亚铁；L-乳酸亚铁；乳酸亚铁；胨合亚铁(Ferrous Peptonate)；硫酸亚铁；无花果蛋白酶；冷杉(松树)针和细枝(新疆冷杉(Abies Sibirica Ledeb.))；冷杉针和细枝油(冷杉属(Abies Spp.))；鱼油(氢化)；全鱼蛋白质浓缩物；鱼蛋白质分离物；叶酸；甲醛；甲酸；2-甲酰基-6,6-二甲基二环(3.1.1)庚-2-烯；4-甲酰基-2-甲氧基苯基2-羟基丙酸酯；水果汁；漂白土；富马酸；真菌半纤维素酶；真菌果胶酶；2-呋喃甲硫醇甲酸酯；4-((呋喃甲基)硫代)-2-戊酮；红藻胶；红藻胶的铵盐；红藻胶和红藻胶的盐；红藻胶的钙盐；红藻胶的钾盐；红藻胶的钠盐；糠醛；糠醛丙二醇缩醛；乙酸糠基酯；糠醇；丁酸糠基酯；癸酸糠基酯；甲酸糠基酯；2-亚糠基丁醛；糠基异丙基硫醚；糠基硫醇；3-甲基丁酸糠基酯；糠基甲基醚；糠基2-甲基-3-呋喃基二硫醚；糠基甲基硫醚；α-糠基辛酸酯；α-糠基戊酸酯；丙酸糠基酯；糠基丙基二硫醚；N-糠基吡咯；硫代乙酸糠基酯；1-(2-糠基硫代)丙酮；硫代丙酸糠基酯；3-(2-呋喃甲酰基硫代)-2,5-二甲基呋喃；1-(2-呋喃基)-1,3-丁二酮；1-(2-呋喃基)丁-3-酮；4-(2-呋喃基)-3-丁烯-2-酮；2-呋喃基甲基酮；精制杂醇油；来自葡酒色被孢霉变种(Morteirella Vinaceae Raffinoseutilizer)的α-半乳糖苷酶；大高良姜(红豆蔻(Alpinia Galanga Willd))；高良姜根(山姜属(Alpinia Spp.))；高良姜根提取物(山姜属)；高良姜根油(山姜属)；白松香油(阿魏属(Ferula Spp.))；白松香树脂(阿魏属)；棕儿茶(儿茶钩藤(Uncaria Gambir Roxb.))；胶栀子(Gardenia Gummifera)馏出物；大蒜；大蒜提取物；大蒜油(蒜(Allium Sativum L.))；脱水大蒜；大蒜粉末；明胶；结冷胶；鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.))；鹰爪豆提取物(鹰爪豆)；龙胆根提取物(黄龙胆(Gentiana Lutea L.))；无茎龙胆(无茎龙胆(Gentiana Acaulis L.))；香叶酸；香叶醇；天竺葵(天竺葵属(Pelargonium Spp.))；东印度天竺葵提取物(玫瑰草(Cymbopogon Martini Stapf.))；东印度天竺葵油(玫瑰草(Cymbopogon Martini Stapf.))；天竺葵提取物(天竺葵属)；天竺葵油(天竺葵属)；玫瑰天竺葵油(香叶天竺葵(Pelargonium Graveolens L'her.))；乙酸香叶基酯；乙酰乙酸香叶基酯；香叶基丙酮；苯甲酸香叶基酯；丁酸香叶基酯；甲酸香叶基酯；己酸香叶基酯；异丁酸香叶基酯；异戊酸香叶基酯；2-甲基丁酸香叶基酯；苯基乙酸香叶基酯；丙酸香叶基酯；惕各酸香叶基酯；戊酸香叶基酯；石蚕(Germander,Chamaedrys)(婆婆纳(Teucrium Chamaedrys L.))；石蚕提取物(婆婆纳)；石蚕提取物固体(婆婆纳)；金石蚕(金石蚕(Teucrium Polium L.))；轧的树胶(阔叶榆绿木(Anogeissus Latifolia Wall.))；赤霉酸和赤霉酸钾；姜(生姜(Zingiber Officinale Rosc.))；姜提取物(生姜)；姜油(生姜)；姜油树脂(生姜)；D-葡糖酸；葡糖酸-δ内酯；N-葡糖基乙醇胺；N-葡糖基乙醇胺磷酸酯；来自凝结芽孢杆菌(Bacillus Coagulans)的葡萄糖异构酶；来自固定化的球形节杆菌(Arthrobacter Globiformis)的葡萄糖异构酶；来自橄榄色链霉菌(Streptomyces Olivaceus)的葡萄糖异构酶；来自橄榄产色链霉菌(Streptomyces Olivochromogenes)的葡萄糖异构酶；来自锈赤链霉菌(Streptomyces Rubiginosus)的葡萄糖异构酶；葡萄糖氧化酶过氧化氢酶制剂；来自黑曲霉(Aspergillus Niger)的葡萄糖氧

化酶;来自特异青梅菌的葡萄糖氧化酶;五乙酸葡萄糖酯;来自黄曲霉(Aspergillus Flavus)的葡萄糖苷酶;来自黑曲霉的葡萄糖苷酶;来自米曲霉(Aspergillus Oryzae)的葡萄糖苷酶;L-谷氨酸;谷氨酸盐酸盐;L-谷氨酰胺;γ-谷氨酰基-缬氨酰基-甘氨酸;戊二醛;麸质;胶;甘油;合成甘油;三丁酸甘油酯;山嵛酸甘油酯;5-羟基癸酸甘油酯;5-羟基十二烷酸甘油酯;脂肪酸的甘油-乳酸酯;乳酸油酸甘油酯;乳酸棕榈酸甘油酯;单油酸甘油酯;单硬脂酸甘油酯;棕榈酸硬脂酸甘油酯;三苯甲酸甘油酯;三丙酸甘油酯;三硬脂酸甘油酯;甘氨酸;甘氨胆酸;加氨甘草甜素(甘草属(Glycyrrhiza Spp.));乐园子(摩洛哥豆蔻(Aframomum Melegueta(Rosc.)K.Schum.));葡萄色提取物;天然葡萄香精;天然葡萄柚香精;葡萄柚提取物;葡萄柚汁;葡萄柚油(葡萄柚(Citrus Paradisi Macf.));葡萄柚油浓缩物;无萜的葡萄柚油(葡萄柚(Citrus Paradisi));葡萄籽提取物;葡萄皮提取物;石灰石粉;愈创木胶(愈创木属(Guaiacum Spp.));愈创木胶提取物(愈创木属);愈创木酚;愈创木酚丁酸酯;愈创木酚丙酸酯;愈创木提取物(愈创木属);愈创木油(愈创木属);乙酸愈创木基酯;异丁酸愈创木基酯;苯基乙酸愈创木基酯;愈创木烯;愈创木醇乙酸酯;瓜拉纳胶(瓜拉纳(Paullinia Cupana Hbk));瓜拉纳种子提取物;瓜尔胶(瓜尔豆(Cyamopsis Tetragonolobus(L.)));番石榴(番石榴属(Psidium Spp.));番石榴提取物;阿拉伯胶;辛烯丁二酸氢酯;古塔胶(Palaquium Leiocarpum Boerl.和P.Oblongifolium Burck.);食用红球藻(Haematococcus Algae Meal);黑山楂树皮提取物(梨叶荚蒾(Viburnum Prunifolium L.));长柄日光菊(Heliopsis Longipes)提取物;氦;铁杉(铁杉属(Tsuga Spp.));铁杉针和细枝油(铁杉属(Tsuga Spp.));2,4-庚二烯醛;反-2-反-4-庚二烯-1-醇;γ-庚内酯;庚醛;庚醛二甲基缩醛;庚醛甘油基缩醛(混合的1,2和1,3缩醛);庚醛丙二醇缩醛;2,3-庚二酮;2-庚硫醇;庚烷-1-硫醇;庚酸;2-庚醇;3-庚醇;2-庚酮;3-庚酮;4-庚酮;N-(庚-4-基)苯并[D][1,3]间二氧杂环戊烯-5-甲酰胺;2-庚烯醛;4-庚烯醛二乙基缩醛;(E)-2-庚烯酸;(+/-)-1-庚烯-3-醇;(Z)-4-庚烯-1-醇;3-庚烯-2-酮;2-庚烯-4-酮;庚-反-2-烯-1-基乙酸酯;庚-2-烯-1-基异戊酸酯;反-3-庚烯基2-甲基丙酸酯;3-庚基乙酸酯;乙酸庚酯;庚醇;丁酸庚酯;2-庚基丁酸酯;肉桂酸庚酯;顺-和反-2-庚基环丙基甲酸;3-庚基二氢-5-甲基-2(3h)-呋喃酮;甲酸庚酯;2-庚基呋喃;庚酸庚酯;异丁酸庚酯;辛酸庚酯;尼泊金庚酯;橙皮苷;δ-十六内酯;ω-6-十六烯内酯;乳酸十六烷基酯;反,反-2,4-己二烯醛;2,4-己二烯-1-醇;2,4-己二烯基乙酸酯;2,4-己二烯基丁酸酯;2,4-己二烯基异丁酸酯;2,4-己二烯基丙酸酯;δ-己内酯;γ-己内酯;己醛;己醛丁烷-2,3-二醇缩醛;己醛二己基缩醛;己醛己基异戊基缩醛;己醛辛烷-1,3-二醇缩醛;己烷;2,3-己二酮;3,4-己二酮;1,6-己二硫醇;1-己硫醇;己酸;3-己醇;3-己酮;顺-3-己烯醛;反-4-己烯醛;3-己烯醛;顺-4-己烯醛;反-3-己烯醛;2-己烯醛;(+/-)-反-和顺-2-己烯醛甘油基缩醛;(E)-2-己烯醛二乙基缩醛;4-己烯-3-酮;(Z)-3-己烯基(E)-2-己烯酸酯;反-2-己烯酸;3-己烯酸;1-己烯-3-醇;2-己烯-1-醇;4-己烯-1-醇;5-己烯醇;(Z)-2-己烯-1-醇;(Z)-3-己烯基邻氨基苯甲酸酯;顺-3-己烯基苯甲酸酯;(E)-2-己烯基丁酸酯;3-己烯基巴豆酸酯;顺-,(E)-2-己烯基甲酸酯;2-己烯基己酸酯;反-,(Z)-3-己烯基异丁酸酯;5-己烯基异硫氰酸酯;(E)-2-己烯基异戊酸酯;3-己烯基异戊酸酯;顺-3-己烯基乳酸酯;3-己烯基2-甲基丁酸酯;2-己烯基辛酸酯;3-己烯基苯基乙酸酯;(E)-2-己烯基丙酸酯;顺-3和反-2-己烯基丙酸酯;(Z)-3-己烯基丙酸酯;(Z)-3-己烯基丙酮酸酯;(Z)-3-己烯基戊酸酯;(E)-2-己烯基戊酸酯;乙酸己酯;2-己

基-4-乙酰氧基四氢呋喃;己醇;己胺;苯甲酸己酯;N-己基2-丁烯酸酯;丁酸己酯;α-己基肉桂醛;癸酸己酯;2-己基-4,5-二甲基-1,3-二氧戊环;甲酸己酯;2-糠酸己酯;庚酸己酯;己酸己酯;反-2-己烯酸己酯;2-亚己基环戊酮;2-亚己基己醛;异丁酸己酯;异硫氰酸己酯;异戊酸己酯;2-己基-5或6-酮-1,4-二氧六环;3-巯基丁酸己酯;2-甲基丁酸己酯;2-甲基-3(或4)-戊烯酸己酯;壬酸己酯;辛酸己酯;苯基乙酸己酯;丙酸己酯;2-己基噻吩;山核桃木树皮提取物(山核桃属(Carya Spp.));山核桃木烟熏馏出物;高果糖玉米糖浆;L-组氨酸;(-)-高圣草酚钠盐;忍冬提取物;啤酒花提取物(啤酒花(Humulus Lupulus L.));改性啤酒花提取物;啤酒花提取物固体(啤酒花);啤酒花油(啤酒花);夏至草提取物(欧夏至草(Marrubium Vulgare L.));夏至草(欧夏至草);夏至草固体提取物;马薄荷叶提取物(美国薄荷属(Monarda Spp.));辣根(辣根(Armoracia Lapathifolia Gilib.));辣根油;风信子纯化物(风信子(Hyacinthus Orientalis L.));风信子花(风信子);龙葵醛丙二醇缩醛;肼;盐酸;过氧化氢;硫化氢;氢醌单乙基醚;羟基丙酮;4-羟基苯乙酮;2-羟基苯乙酮;4-羟基苯甲醛;4-羟基苯甲酸;3-羟基苯甲酸;4-羟基苄醇;4-羟基丁酸内酯;1-羟基-2-丁酮;4-羟基-2-丁烯酸γ-内酯;6-羟基香芹酮;羟基香茅醛;羟基香茅醛二乙基缩醛;羟基香茅醛二甲基缩醛;羟基香茅醛丙二醇缩醛;羟基香茅醇;2-羟基-2-环己烯-1-酮;5-羟基-2,4-癸二烯酸δ-内酯;5-羟基-2-癸烯酸δ-内酯;5-羟基-7-癸烯酸δ-内酯;6-羟基二氢茶螺烷;4-羟基-3,5-二甲氧基苯甲醛;4-羟基-2,5-二甲基-3(2h)-呋喃酮;4-羟基-2,3-二甲基-2,4-壬二烯酸γ内酯;6-羟基-3,7-二甲基辛酸内酯;(Z)-4-羟基-6-十二碳烯酸内酯;5-羟基-2-十二碳烯酸内酯;1-羟基亚乙基-1,1-二膦酸;4-羟基-4-(3-羟基-1-丁烯基)-3,5,5-三甲基-2-环己烯-1-酮;羟基(4-羟基-3-甲氧基苯基)乙酸;1-(2-羟基-4-异丁氧基苯基)-3-(吡啶-2-基)丙-1-酮;羟基化卵磷脂;2-羟基-4-甲氧基苯甲醛;N-(4-羟基-3-甲氧基苄基)-8-甲基-6-壬烯酰胺;1-(4-羟基-3-甲氧基苯基)癸-3-酮;1-(2-羟基-4-甲氧基苯基)-3-(吡啶-2-基)丙-1-酮;2-羟基-5-甲基苯乙酮;2-羟基-4-甲基苯甲醛;2-(2-羟基-4-甲基-3-环己烯基)丙酸γ-内酯;4-羟基-4-甲基-7-顺-癸酸γ内酯;2-羟甲基-6,6-二甲基二环(3.1.1)庚-2-烯基甲酸酯;4-羟甲基-2,6-二-叔丁基苯酚;10-羟基亚甲基-2-蒎烯;4-羟基-5-甲基-3(2h)-呋喃酮;3-(羟甲基)-2-庚酮;5-羟基-4-甲基己酸δ-内酯;3-羟基-5-甲基-2-己酮;2-羟基-5-甲基-3-己酮;4-羟基-4-甲基-5-己烯酸γ内酯;(?)-3-羟基-3-甲基-2,4-壬二酮;4-羟基-3-甲基辛酸内酯;1-羟基-4-甲基-2-戊酮;1-(3-羟基-5-甲基-2-噻吩基)乙酮;羟基壬酸;δ-内酯;3-羟基-2-辛酮;5-羟基-4-辛酮;3-羟基-2-氧代丙酸;3-羟基-2-戊酮;4-羟基-3-戊烯酸内酯;4-(对羟苯基)-2-丁酮;3-羟基-4-苯基丁-2-酮;2-(2-羟苯基)环丙基甲酸δ内酯;1-(2-羟苯基)-3-(吡啶-4-基)丙-1-酮;(+/-)-2-羟基胡椒酮;L-羟基脯氨酸;羟丙基纤维素;羟丙基甲基纤维素;2-羟基-3,5,5-三甲基-2-环己烯酮;5-羟基十一烷酸内酯;5-羟基-8-十一碳烯酸δ-内酯;海索草提取物(神香草(Hyssopus Officinalis L.));海索草(神香草);海索草油(神香草);冰岛苔(冰岛地衣(Cetraria Islandica Ach.));蜡菊纯化物(蜡菊(Helichrysum Angustifolium Dc));蜡菊提取物(蜡菊);王草(欧前胡(Peucedanum Ostruthium(L.)Koch(Imperatoria Ostruthium L.)));吲哚;肌醇;不可溶葡萄糖异构酶制剂;来自酿酒酵母(Saccharomyces Cerevisiae)的转化酶;转化糖;转化糖糖浆;α-紫罗烯;离子交换膜;离子交换树脂;β-紫罗醇;α-紫罗醇;β-紫罗酮;γ-紫罗酮;α-紫罗酮;β-紫罗酮环氧化物;β-紫罗醇乙酸酯;柠檬酸铁铵;辛酸铁;柠

檬酸铁-胆碱复合物;柠檬酸铁;α-鸢尾酮;元素铁;亚油酸铁;环烷酸铁;氧化铁;胨合铁;铁聚乙烯基吡咯烷酮;树脂酸铁;异黄葵内酯;乙酸异戊酯;乙酰乙酸异戊酯;异戊醇;苯甲酸异戊酯;丁酸异戊酯;肉桂酸异戊酯;甲酸异戊酯;4-(2-呋喃)丁酸异戊酯;3-(2-呋喃)丙酸异戊酯;己酸异戊酯;异丁酸异戊酯;异硫氰酸异戊酯;异戊酸异戊酯;月桂酸异戊酯;乙酰丙酸异戊酯;2-甲基丁酸异戊酯;壬酸异戊酯;辛酸异戊酯;异戊基苯乙基醚;苯基乙酸异戊酯;丙酸异戊酯;丙酮酸异戊酯;水杨酸异戊酯;异冰片;乙酸异冰片酯;甲酸异冰片酯;异丁酸异冰片酯;异戊酸异冰片酯;2-甲基丁酸异冰片酯;丙酸异冰片酯;异丁烷;乙酸异丁酯;乙酰乙酸异丁酯;异丁醇;异丁胺;当归酸异丁酯;邻氨基苯甲酸异丁酯;苯甲酸异丁酯;2-丁烯酸异丁酯;丁酸异丁酯;肉桂酸异丁酯;N-异丁基十-反-2-反-4-二烯酰胺;2(4)-异丁基-4(2),6-二甲基二氢-4h-1,3,5-二噻嗪;2-异丁基-4,5-二甲基噁唑;异丁烯-异戊二烯共聚物;甲酸异丁酯;2-呋喃丙酸异丁酯;庚酸异丁酯;己酸异丁酯;异丁酸异丁酯;异硫氰酸异丁酯;2-异丁基-3-甲氧基吡嗪;N-甲基邻氨基苯甲酸异丁酯;2-异丁基-3-甲基吡嗪;(+/-)-异丁基3-甲基硫代丁酸酯;苯基乙酸异丁酯;丙酸异丁酯;水杨酸异丁酯;2-异丁基噻唑;10-十一碳烯酸异丁酯;异丁醛;异丁酸;异环柠檬醛;异丁子香酚;乙酸异丁子香基酯;异丁子香基苄基醚;异丁子香基乙基醚;甲酸异丁子香基酯;异丁子香基甲基醚;苯基乙酸异丁子香基酯;异茉莉酮;L-异亮氨酸;α-异甲基紫罗酮;β-异甲基紫罗酮;α-异甲基紫罗醇乙酸酯;合成的异石蜡石油烃;异戊胺;异亚戊基异戊胺;异佛尔酮;乙酸异丙烯酯;5-异丙烯基-2-甲基-2-乙烯基四氢呋喃;3-异丙烯基-6-氧代庚酸;3-异丙烯基戊二酸;异丙烯基吡嗪;乙酸异丙酯;对异丙基苯乙酮;异丙醇;异丙胺;苯甲酸异丙酯;对异丙基苄醇;丁酸异丙酯;肉桂酸异丙酯;柠檬酸异丙酯;异丙基-2-环己烯酮;5-异丙基-2,6-二乙基-2-甲基四氢-2h-吡喃;2(4)-异丙基-4(2),6-二甲基二氢-4h-1,3,5-二噻嗪;甲酸异丙酯;己酸异丙酯;异亚丙基甘油基5-羟基癸酸酯;异丁酸异丙酯;异硫氰酸异丙酯;异戊酸异丙酯;S-异丙基3-甲基丁-2-烯硫酯;2-甲基丁酸异丙酯;2-异丙基-5-甲基-2-己烯醛;(+/-)-[R-(E)]-5-异丙基-8-甲基壬-6,8-二烯-2-酮;2-异丙基-4-甲基噻唑;肉豆蔻酸异丙酯;棕榈酸异丙酯;2-异丙基苯酚;对异丙基苯基乙醛;苯基乙酸异丙酯;3-(对异丙基苯基)丙醛;丙酸异丙酯;2-异丙基吡嗪;惕各酸异丙酯;2-异丙基-N,2,3-三甲基丁酰胺;异胡薄荷醇;异胡薄荷酮;乙酸异胡薄荷酯;酶促改性的异槲皮苷;异喹啉;异戊醛二乙基缩醛;异戊醛甘油基缩醛;异戊酸;Iva(麝香蓍草(Achillea Moschata Jacq.));Iva提取物(麝香蓍草);莲雾油树脂;日本蜡;茉莉纯化物(素馨属(Jasminum Spp.));茉莉凝结物(素馨属);茉莉油(素馨花(Jasminum Grandiflorum L.));茉莉醑剂(素馨花);顺-茉莉酮;节路顿胶(小脉竹桃木(Dyera Costulata Hook,F.)和洛氏竹桃木(D.Lowii Hook,F.));杜松(浆果)(欧洲刺柏(Juniperus Communis L.));杜松提取物(欧洲刺柏);杜松油(欧洲刺柏);卡拉牙胶(刺苹婆树(Sterculia Urens Roxb.));海草;2-酮-4-丁烷硫醇;α-酮丁酸;可乐果提取物(可乐果(Cola Acuminata Schott Et Endl.));岩蔷薇纯化物(岩蔷薇属(Cistus Spp.));岩蔷薇油(岩蔷薇属(Cistus Spp.));岩蔷薇油树脂(岩蔷薇属(Cistus Spp.));乳清蛋白;乳清蛋白盐酸盐;来自脆壁酵母(Saccharomyces Fragilis)乳糖酶;来自酵母属(克鲁维酵母菌属)乳酸菌的乳糖酶;乳糖酶制剂;假热带念珠菌(Candida Pseudotropicalis);乳酸;乳糖;水解乳糖;N-乳酰基乙醇胺;N-乳酰基乙醇胺磷酸酯;甘油和丙二醇的乳酰化脂肪酸酯;脂肪酸的乳酸酰酯;羊毛脂;猪油;猪油(Lard Oil);月桂浆果(月桂(Laurus Nobilis

L.))；月桂酸；月桂醛；月桂酰基二乙醇酰胺；乙酸月桂基酯；月桂醇；醒目熏衣草纯化物；醒目熏衣草凝结物；醒目熏衣草油；熏衣草纯化物(熏衣草(Lavandula Officinalis Chaix))；熏衣草凝结物(熏衣草)；熏衣草(熏衣草)；熏衣草油(熏衣草)；穗花熏衣草(穗花熏衣草(Lavandula Latifolia Bill.))；穗花熏衣草油(熏衣草属(Lavandula Spp.))；夹竹桃科树胶(Leche Caspi，Couma Macrocarpa Barb.Rodr.)；桑科树胶(Leche De Vaca，良木饱食桑木(Brosimum Utile(H.B.K.)Pittier)和刺枝桑属(Poulsenia Spp.))；卵磷脂；过氧化苯甲酰改性的卵磷脂；酶改性的卵磷脂；过氧化氢改性的卵磷脂；卵磷脂(蔬菜)；韭菜油；柠檬香精；柠檬提取物(柠檬(Citrus Limon(L.)Burm.F.))；柠檬草油(柠檬草(Cymbopogon Citratus Dc.)和印度香茅(Cymbopogon Flexuosusstapf))；柠檬汁；柠檬油(柠檬(Citrus Limon(L.)Burm.F.))；无萜的柠檬油(柠檬)；柠檬皮提取物；柠檬皮颗粒；柠檬萜烯；柠檬马鞭草(柠檬过江藤(Lippia Citriodora Hbk.))；柠檬马鞭草油(柠檬过江藤(Lippia Citriodora))；勒皮啶；L-亮氨酸；乙酰丙酸；左旋糖；L-葜酮；甘草提取物(甘草属(Glycyrrhiza Spp.))；甘草提取物粉(甘草属(Glycyrrhiza Spp.))；甘草(甘草属(Glycyrrhiza Spp.))；木质素；木质素磺酸钠；木质素磺酸；酸橙香精；酸橙汁；脱水酸橙汁；蒸馏酸橙油；压榨酸橙油；无萜的酸橙油(来檬(Citrus Aurantifolia(Christman) Swingle))；L-柠檬烯；D-柠檬烯；Dl-柠檬烯；沉香木油(墨西哥沉香木(Bursera Delpechiana Poiss.)和其他的裂榄属(Bursera Spp.))；沉香醇；沉香醇氧化物；沉香醇氧化物吡喃型；乙酸沉香基酯；邻氨基苯甲酸沉香基酯；苯甲酸沉香基酯；丁酸沉香基酯；肉桂酸沉香基酯；甲酸沉香基酯；己酸沉香基酯；异丁酸沉香基酯；异戊酸沉香基酯；辛酸沉香基酯；苯基乙酸沉香基酯；丙酸沉香基酯；椴树花提取物(椴属(Tilia Spp.))；椴树花(Tilia Glabra Vent.)；椴树叶(椴属)；亚油酸；脂酶；来自动物组织的脂酶；来自黑曲霉(Aspergillus Niger)的脂酶；来自米曲霉(Aspergillus Oryzae)的脂酶；来自雪白根霉(Rhizopus Niveus)的脂酶；李斯特菌属特异性噬菌体制剂；山苍子浆果油；L-薄荷基丁酸酯；槐(角豆树)豆胶；独活草提取物(欧当归(Levisticum Officinale Koch))；独活草(欧当归)；独活草油(欧当归)；L-8-对薄荷烯-1，2-环氧化物；肺衣草(牛皮叶(Sticta Pulmonacea Ach.))；罗汉果浓缩物；啤酒花苦味素(啤酒花(Humulus Lupulus L.))；L-赖氨酸；肉豆蔻(Myristica Fragrans Houtt.)；肉豆蔻油(肉豆蔻)；肉豆蔻油树脂(肉豆蔻)；癸酸镁；辛酸镁；碳酸镁；氯化镁；富马酸镁；葡糖酸镁；甘油磷酸镁；氢氧化镁；月桂酸镁；肉豆蔻酸镁；油酸镁；氧化镁；棕榈酸镁；磷酸氢镁；正磷酸镁；脂肪酸的镁盐；硅酸镁；硬脂酸镁；硫酸镁；木兰醇；铁线蕨(铁线蕨(Adiantum Capillus-Veneris L.))；L-苹果酸；苹果酸；Malt；麦芽糖糊精；麦芽酚；丙酸麦芽酚酯；麦芽糖；麦芽糖浆(麦芽提取物)；异丁酸麦芽酚酯；柑橘油(柑橘(Citrus Reticulata Blanco))；氯化锰；柠檬酸锰；葡糖酸锰；甘油磷酸锰；次磷酸锰；硫酸锰；氧化亚锰；甘露糖醇；盆栽金盏菊(金盏花(Calendula Officinalis L.))；墨角兰油树脂(Marjorana Hortensis Moench(Origanum Majorana L.))；盆栽墨角兰(牛至(Majorana Onites(L.)Benth.(Origanum Vulgare L.)))；墨角兰种子(马郁兰(Majorana Hortensis Moench(Origanum Majorana L.)))；甜墨角兰(马郁兰)；甜墨角兰油(马郁兰)；二齿铁线子胶(铁线子属，Manilkara Huberi(Ducke)Chevalier)；二齿铁线子胶无溶剂树脂提取物；巧克力铁线子胶(铁线子属，Manilkara Solimoesensis Gilly)；厚壳桂皮油；乳香胶；马黛茶纯化物(巴拉圭冬青，Ilex Paraguariensis St.Hil.)；马黛茶

叶;甲萘氢醌二磷酸酯钠;鲱油;氢化鲱油;部分氢化鲱油;D-2,8-对薄荷二烯-1-醇;薄荷二烯醇;对薄荷-1,8-二烯-7-醇;顺-和反-对-1(7),8-薄荷二烯-2-基乙酸酯;对薄荷烷-2-酮;对薄荷-8-硫醇-3-酮;对薄荷-1-烯-9-醛;8-对薄荷烯-1,2-二醇;1-对薄荷烯-8-硫醇;对薄荷-1-烯-3-醇;对薄荷-3-烯-1-醇;1-对薄荷烯-9-基乙酸酯;薄荷醇;薄荷酮;薄荷酮1,2-甘油缩酮;L-薄荷酮1,2-甘油缩酮;薄荷酮-8-硫代乙酸酯;2-(L-薄荷氧基)乙醇;3-(L-薄荷氧基)-2-甲基丙烷-1,2-二醇;3-L-薄荷氧基丙烷-1,2-二醇;乙酸薄荷基酯;L-薄荷基乙酰乙酸酯;L-薄荷基乙二醇碳酸酯;甲酸薄荷基酯;L-薄荷基(R,S)-3-羟基丁酸酯;异戊酸薄荷基酯;L-薄荷基乳酸酯;1-薄荷基甲基醚;2-[2-(对薄荷基氧基)乙氧基]乙醇;丙酸薄荷基酯;薄荷基丙二醇碳酸酯;L-薄荷基1,2-丙二醇碳酸酯;吡咯烷酮甲酸薄荷基酯;戊酸薄荷基酯;2-巯基茴香醚;2-巯基-3-丁醇;3-巯基-2-丁酮;(+/-)-3-巯基-1-丁基乙酸酯;2-巯基乙醇;3-巯基庚基乙酸酯;3-巯基己醛;3-巯基己醇;3-巯基己基乙酸酯;3-巯基己基丁酸酯;3-巯基己基己酸酯;4-巯基-3-甲基-2-丁醇;3-巯基-2-甲基-1-丁醇;3-巯基-3-甲基-1-丁醇;3-巯基-3-甲基-1-丁基乙酸酯;3-巯基-3-甲基丁基甲酸酯;3-巯基-3-甲基丁基异戊酸酯;4-巯基-4-甲基-2-己酮;3-巯基-2-甲基戊醛;3-巯基-2-甲基-1-戊醇;(+/-)-4-巯基-4-甲基-2-戊醇;2-巯基-2-甲基-1-戊醇;4-巯基-4-甲基-2-戊酮;2-巯基甲基吡嗪;3-巯基-2-戊酮;4-巯基-2-戊酮;2,3或10-巯基蒎烷;1-巯基-2-丙酮;2-巯基丙酸;3-巯基丙酸;牧豆树提取物;甲基丙烯酸-二乙烯基苯共聚物;甲硫基丙醛二乙基缩醛;L-蛋氨酸;Dl-蛋氨酸;丁酸甲硫氨酰基酯;L-甲硫氨酰基甘氨酸;2-甲氧基苯乙酮;对甲氧基-α-甲基肉桂醛;邻甲氧基苯甲醛;对甲氧基苯甲醛;4-甲氧基苯甲酸;3-甲氧基苯甲酸;2-甲氧基苯甲酸;对甲氧基肉桂醛;邻甲氧基肉桂醛;反-和顺-1-甲氧基-1-癸烯;(S1)-甲氧基-3-庚硫醇;2-甲氧基-(3或5或6)-异丙基吡嗪;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(5-甲基吡啶-2-基)乙基)草酰胺;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;4-甲氧基-2-甲基-2-丁烷硫醇;2-甲氧基-4-甲基苯酚;(2或5或6)-甲氧基-3-甲基吡嗪(异构体的混合物);4-(对甲氧基苯基)-2-丁酮;1-(对甲氧基苯基)-1-戊烯-3-酮;2-甲氧基-6-(2-丙烯基)苯酚;2-甲氧基-4-丙基苯酚;2-甲氧基-3-(1-甲基丙基)吡嗪;甲氧基吡嗪;2-甲氧基吡啶;6-甲氧基喹啉;2-甲氧基-4-乙烯基苯酚;甲基丙烯酸甲酯;乙酸甲酯;4'-甲基苯乙酮;2-甲基苯乙酮;甲基1-乙酰氧基环己基酮;(+/-)-甲基5-乙酰氧基己酸酯;3-乙酰氧基-2-甲基丁酸甲酯;3-乙酰氧基辛酸甲酯;N-乙酰基邻氨基苯甲酸甲酯;1-甲基-2-乙酰基吡咯;2-甲基-3-(2-呋喃基)丙烯醛;丙烯酸甲酯;丙烯酸甲酯-二乙烯基苯完全水解的共聚物;丙烯酸甲酯-Dvb-丙烯腈完全水解的三元共聚物;丙烯酸甲酯-Dvb(3.5%)用Dmapa氨解的共聚物;丙烯酸甲酯-Dvb(2%)用Dmapa氨解的共聚物;丙烯酸甲酯--Dvb-(Deg-二乙烯基醚)氨解并季铵化的三元共聚物;丙烯酸甲酯-Dvb-(Deg-二乙烯基醚)氨解的三元共聚物;甲醇;2-甲基烯丙基丁酸酯;甲基-α-紫罗酮;茴香酸甲酯;对甲基茴香醚;邻甲基茴香醚;邻氨基苯甲酸甲酯;甲基化二氧化硅;4-甲基苯甲醛丙二醇缩醛;苯甲酸甲酯;2-甲基苯并呋喃;S-甲基苯并硫代酸酯;2-甲基-4,5-苯并噁唑;α-甲基苄基乙酸酯;乙酸甲基苄酯(混合的邻-、间-、对-);α-甲基苄醇;4-甲基苄醇;甲基苄基二硫醚;α-甲基苄基甲酸酯;α-甲基苄基丙酸酯;4-甲基联苯;3-甲基丁烷硫醇;3-甲基-2-丁烷硫醇;2-甲基-1-丁烷硫醇;3-甲基-2-丁醇;2-甲基-1-丁醇;2-甲基-2-丁烯醛;3-甲基-2-丁烯醛;(Z)-3-乙烯基(E)-2-甲基-2-丁烯酸酯;反-2-甲基-2-丁烯酸;2-甲基丁-2-烯-1-醇;3-甲

基-2-丁烯-1-醇;2-甲基-3-丁烯-2-醇;3-甲基-3-丁烯-2-酮;3-甲基-3-丁烯基乙酸酯;2-甲基丁基乙酸酯;2-甲基丁胺;2-甲基丁基异戊酸酯;2-甲基丁基3-甲基-2-丁烯酸酯;2-甲基丁基2-甲基丁酸酯;3-甲基丁醛;2-甲基丁醛;丁酸甲酯;2-甲基丁酸;α-甲基肉桂醛;对甲基肉桂醛;肉桂酸甲酯;4-甲基-顺-2-戊烯;6-甲基香豆素;3-甲基巴豆酸;2-甲基-1,3-环己二烯;1-甲基-2,3-环己二酮;环己烷甲酸甲酯;4-甲基环己酮;3-甲基环己酮;2-甲基环己酮;3-甲基-2-环己烯-1-酮;N-(2-甲基环己基)-2,3,4,5,6-五氟苯甲酰胺;3-甲基-1-环十五烷酮;甲基环戊烯醇酮;1-甲基-1-环戊烯-3-酮;(E)-2-(Z)-4-癸二烯酸甲酯;3-甲基-γ-癸内酯;γ-甲基癸内酯;2-癸烯酸甲酯;甲基-δ-紫罗酮;5h-5-甲基-6,7-二氢环戊(B)吡嗪;2-甲基-4,5-二氢呋喃-3-硫醇;二氢茉莉酮酸甲酯;4-甲基-2,6-二甲氧基苯酚;N,N-二甲基邻氨基苯甲酸甲酯;3,7-二甲基-6-辛烯酸甲酯;甲基二硫醚;2-甲基-1,3-二硫杂环戊烷;1-(甲基二硫代)-2-丙酮;二氯甲烷;4-(3,4-亚甲基二氧基苯基)-2-丁酮;3-(3,4-亚甲基二氧基苯基)-2-甲基丙醛;脂肪酸的甲基酯(可食用的);2-甲基-(3或5或6)-乙氧基吡嗪;甲基乙基硫醚;甲基乙基三硫醚;N-甲酰基邻氨基苯甲酸甲酯;2-甲基呋喃;2-甲基-3-(甲基硫代)呋喃;2-甲基-5-(甲基硫代)呋喃;5-甲基-3(2h)-呋喃酮;2-甲基-3-呋喃硫醇;糠丙烯酸甲酯;5-甲基糠醛;5-甲基糠醇;甲基糠基二硫醚;5-甲基糠基硫醇;3-(糠基硫代)丙酸甲酯;2-糠酸甲酯;3-(5-甲基-2-呋喃基)-丁醛;2-甲基-3-呋喃基2-甲基-3-四氢呋喃基二硫醚;2-甲基-3-呋喃基甲基硫代甲基二硫醚;3-(5-甲基-2-呋喃基)丙-2-烯醛;3-[(2-甲基-3-呋喃基)硫代]丁醛;(+/-)-3-[(2-甲基-3-呋喃基)硫代]-2-丁酮;3-((2-甲基-3-呋喃基)硫代)-4-庚酮;甲基葡糖苷-椰子油酯;6-甲基-3,5-庚二烯-2-酮;6-甲基庚醛;庚酸甲酯;2-甲基庚酸;2-甲基-3-庚酮;6-甲基-5-庚烯-2-醇;5-甲基-2-庚烯-4-酮;6-甲基-3-庚烯-2-酮;反-,6-甲基-5-庚烯-2-酮;6-甲基-5-庚烯-2-酮丙二醇缩醛;6-甲基-5-庚烯-2-基乙酸酯;3-甲基己醛;5-甲基-2,3-己二酮;S-甲基己烷硫酯;己酸甲酯;2-甲基己酸;5-甲基己酸;3-己烯酸甲酯;顺-3-己烯酸甲酯;2-己烯酸甲酯;5-甲基-5-己烯-2-酮;5-甲基-3-己烯-2-酮;5-甲基己基乙酸酯;甲基己基醚;1-甲基-1h-吡咯-2-甲醛;对羟基苯甲酸甲酯;3-羟基丁酸甲酯;3-羟基己酸甲酯;2-羟基-4-甲基戊酸甲酯;α-甲基-β-羟丙基α-甲基-β-巯基丙基硫醚;甲基-β-紫罗酮;异硫代丁酸甲酯;甲基异丁基酮;异丁酸甲酯;甲基异戊基二硫醚;2-甲基-5-异丙基吡嗪;异硫氰酸甲酯;异戊酸甲酯;茉莉酮酸甲酯;月桂酸甲酯;乙酰丙酸甲酯;亚油酸甲酯(48%)亚麻酸甲酯(52%)混合物;甲基硫醇;3-巯基丁酸甲酯;邻甲氧基苯甲酸甲酯;1-甲基-3-甲氧基-4-异丙基苯;2-甲基-5-甲氧基噻唑;N-甲基邻氨基苯甲酸甲酯;S-甲基3-甲基丁烷硫酯;甲基3-甲基-1-丁烯基二硫醚;3-甲基-2(3-甲基丁-2-烯-1-基)呋喃;2-甲基丁酸甲酯;甲基2-甲基-3-呋喃基二硫醚;S-甲基4-甲基戊烷硫酯;2-甲基戊酸甲酯;甲基2-甲基苯基二硫醚;(甲基硫代)乙酸甲酯;3-(甲基硫代)丁酸甲酯;2-甲基-1-甲基硫代-2-丁烯;4-(甲基硫代)丁酸甲酯;2-甲基硫代丁酸甲酯;甲基(甲基硫代)甲基二硫醚;4-甲基-2-(甲基硫代甲基)-2-己烯醛;5-甲基-2-(甲基硫代甲基)-2-己烯醛;4-甲基-2-(甲基硫代甲基)-2-戊烯醛;3-甲基硫代丙酸甲酯;4-甲基戊酸甲酯;肉豆蔻酸甲酯;1-甲基萘;甲基β-萘基酮;烟酸甲酯;3-甲基-2,4-壬二酮;壬酸甲酯;4-甲基壬酸;2-壬烯酸甲酯;3-壬烯酸甲酯;2-壬炔酸甲酯;2-甲基辛醛;(+/-)-6-甲基辛醛;辛酸甲酯;4-甲基辛酸;2-甲基-2-辛烯醛;2-辛烯酸甲酯;顺-4-辛烯酸甲酯;反-2-辛烯酸甲酯;顺-5-辛烯酸甲酯;(E)-7-甲基-3-辛烯-2-酮;甲基辛基硫醚;2-辛炔酸甲酯;

2-甲基-3或5或6-(糠基硫代)吡嗪(异构体的混合物);3-甲基-2-氧代丁酸;2-氧代-3-甲基戊酸甲酯;3-甲基-2-氧代戊酸;4-甲基-2-氧代戊酸;2-甲基戊醛;4-甲基-2,3-戊二酮;4-甲基戊酸;3-甲基戊酸;3-甲基-1-戊醇;4-(甲基硫代)-4-甲基-2-戊酮;2-甲基-2-戊烯醛;4-甲基-2-戊烯醛;4-戊烯酸甲酯;2-甲基-4-戊烯酸;4-甲基戊-2-烯酸;2-甲基-3-戊烯酸;2-甲基-2-戊烯酸;1-(4-甲氧基苯基)-4-甲基-1-戊烯-3-酮;4-甲基-3-戊烯-2-酮;4-甲基-4-戊烯-2-酮;4-甲基-2-戊基-1,3-二氧戊环;4-甲基戊基异戊酸酯;β-甲基苯乙基醇;α-甲基苯乙基丁酸酯;甲基苯乙基醚;苯基乙酸甲酯;2-甲基-4-苯基-2-丁醇;3-甲基-4-苯基-3-丁烯-2-酮;2-甲基-4-苯基-2-丁基乙酸酯;2-甲基-4-苯基-2-丁基异丁酸酯;2-甲基-4-苯基丁醛;3-甲基-2-苯基丁醛;4-苯基丁酸甲酯;甲基苯基二硫醚;β-苯基缩水甘油酸甲酯;3-甲基-3-苯基缩水甘油酸乙基酯;5-甲基-2-苯基-2-己烯醛;4-甲基-1-苯基-2-戊酮;4-甲基-2-苯基-2-戊烯醛;3-苯基丙酸甲酯;甲基苯基硫醚;2-甲基哌啶;甲基聚硅酮;2-甲基-2-(甲基二硫代)丙醛;S-甲基丙烷硫酯;2-甲基-1-丙硫醇;甲基丙烯基二硫醚;甲基1-丙烯基硫醚;2-甲基-3-(对异丙基苯基)丙醛;丙酸甲酯;3-甲基-5-丙基-2-环己烯-1-酮;甲基丙基二硫醚;2-甲基丙基-3-甲基丁酸酯;(?)-4-甲基-2-丙基-1,3-氧硫杂环己烷;2-甲基-4-丙基-1,3-氧硫杂环己烷;2-(2-甲基丙基)吡啶;2-(1-甲基丙基)噻唑;甲基丙基三硫醚;甲基-(3或5或6)-(甲基硫代)吡嗪(异构体的混合物);2-甲基吡嗪;甲基2-吡咯基酮;6-甲基喹啉;5-甲基喹喔啉;水杨酸甲酯;山梨酸甲酯;甲硫醚;对叔丁基苯基乙酸甲酯;2-甲基四氢呋喃-3-酮;2-甲基-3-四氢呋喃硫醇;(?)-2-甲基四氢呋喃-3-硫醇乙酸酯;7-甲基-4,4a,5,6-四氢-2(3h)-萘酮;2-甲基四氢噻吩-3-酮;4-甲基噻唑;4-甲基-5-噻唑乙醇;4-甲基-5-噻唑乙醇乙酸酯;4-甲基-3-噻唑啉;2-(4-甲基-5-噻唑基)乙基丁酸酯;2-(4-甲基-5-噻唑基)乙基癸酸酯;2-(4-甲基-5-噻唑基)乙基甲酸酯;2-(4-甲基-5-噻唑基)乙基己酸酯;2-(4-甲基-5-噻唑基)乙基异丁酸酯;2-(4-甲基-5-噻唑基)乙基辛酸酯;2-(4-甲基-5-噻唑基)乙基丙酸酯;2-甲基硫代乙醛;S-甲基硫代乙酸酯;2-甲基-3-硫代乙酰氧基-4,5-二氢呋喃;甲基硫代2-(乙酰氧基)丙酸酯;3-(甲基硫代)丁醛;4-(甲基硫代)丁醇;1-(甲基硫代)-2-丁酮;4-(甲基硫代)-2-丁酮;3-(甲基硫代)-2-丁酮;4-(甲基硫代)丁基异硫氰酸酯;硫代丁酸甲酯;1-(3-(甲基硫代)-丁酰基)-2,6,6-三甲基环己烯;2-(甲基硫代)乙醇;2-(甲基硫代)乙基乙酸酯;2-硫代糠酸甲酯;(+/-)-3-(甲基硫代)庚醛;3-(甲基硫代)-1-己醇;3-甲基硫代己烯醛;3-(甲基硫代)己基乙酸酯;6-(甲基硫代)己基异硫氰酸酯;2-((甲基硫代)甲基)-2-丁烯醛;丁酸甲基硫代甲基酯;己酸甲基硫代甲基酯;甲基硫代甲基硫醇;2-(甲基硫代甲基)-3-苯基丙烯醛;3-(甲基硫代)甲基噻吩;1-(甲基硫代)-3-辛酮;4-(甲基硫代)-2-氧代丁酸;4-(甲基硫代)-2-戊酮;5-(甲基硫代)戊基异硫氰酸酯;5-甲基-2-噻吩甲醛;邻-(甲基硫代)苯酚;1-甲基硫代-2-丙酮;甲基硫代2-(丙酰氧基)丙酸酯;3-(甲基硫代)丙基乙酸酯;3-(甲基硫代)丙胺;3-(甲基硫代)丙基己酸酯;3-甲基硫代丙基异硫氰酸酯;3-(甲基硫代)丙基巯基乙酸酯;2-甲基-3-甲苯基丙醛(混合的邻-、间-、对-);12-甲基十三醛;3-甲基-1,2,4-三噻烷;2-甲基十一醛;9-十一碳烯酸甲酯;10-十一碳烯酸甲酯;2-十一碳缺酸甲酯;戊酸甲酯;2-甲基戊酸;2-甲基-5-乙烯基吡嗪;(+/-)-2-(5-甲基-5-乙烯基四氢呋喃-2-基)丙醛;4-甲基-5-乙烯基噻唑;白玉兰提取物;微粒的蛋白质产物;奶;脱脂奶(Skim Milk);脱脂奶(Nonfat Milk);降脂奶;凝乳酶;米曲霉(Aspergillus Oryzae)重组体;来自蜡样芽胞杆菌(Bacillus Cereus)的凝乳酶

(Frankland和Frankland)；来自栗疫菌(Endothia Parasitica)的凝乳酶；来自米黑毛霉(Mucor Miehei Cooney Et Emerson)的凝乳酶；来自微小毛霉(Mucor Pusillus L.)的凝乳酶；酶改性的全奶粉末；含羞草纯化物(银荆树(Acacia Decurrens Willd.Var.Dealbata))；含羞草凝结物(银荆树)；白矿物油；薄荷内酯；3,6-二乙基-1,2,4,5-四噻烷与3,5-二乙基-1,2,4-三硫杂环戊烷的混合物；甲基环己二烯与亚甲基环己烯的混合物；丁基丙基二硫醚与丙基和丁基二硫醚的混合物；糖蜜浓缩物；糖蜜提取物(甘蔗(Saccharum Officinarum L.))；糖蜜(甘蔗)；分子筛树脂；谷氨酸一铵；甘油单酯和甘油二酯；甘油单酯和甘油二酯的乙酸酯以及钠盐和钙盐；甘油单酯和甘油二酯的乙酰基酒石酸酯以及钠盐和钙盐；甘油单酯和甘油二酯的柠檬酸酯以及钠盐和钙盐；甘油单酯和甘油二酯的二乙酰基酒石酸酯；乙氧基化的甘油单酯和甘油二酯；甘油单酯和甘油二酯的乳酸酯以及钠盐和钙盐；甘油单酯和甘油二酯的磷酸二氢钠衍生物；甘油单酯和甘油二酯的磺基乙酸钠衍生物；甘油单酯、甘油二酯和甘油三酯；单乙醇胺柠檬酸甘油单酯；乙酰化的甘油单酯；柠檬酸单异丙基酯；戊二酸单薄荷基酯；L-,琥珀酸单薄荷基酯；谷氨酸单钾；谷氨酸单钠；氧化精制的褐煤蜡脂肪酸；多元醇二酯；吗啉；吗啉脂肪酸盐；山枫(穗花槭(Acer Spicatum Lam.))；山枫树皮(穗花槭)；山枫提取物固体(穗花槭)；毛蕊花(毛蕊花属(Verbascum Spp.))；蒸馏的蘑菇油；葵子麝香；麝香酮；藏麝香(Musk Tonquin)(原麝(Moschus Moschiferus L.))；黑芥(芸薹属(Brassica Spp.))；黑芥提取物(芸薹属(Brassica Spp.))；芥末粉；芥末油；东方芥末；黄芥(芸薹属(Brassica Spp.))；黄芥提取物(芸薹属(Brassica Spp.))；β-月桂烯；月桂烯基甲基醚；杨梅苷；肉豆蔻醛；肉豆蔻酸；肉豆蔻醇；没药提取物；没药胶(没药属(Commiphora Spp.))；没药油(没药属(Commiphora Spp.))；桃金娘烯醇；乙酸桃金娘烯基酯；桃金娘叶(香桃木(Myrtus Communis L.))；桃金娘油(香桃木(Myrtus Communis L.))；石脑油；2-萘硫醇；β-萘基邻氨基苯甲酸酯；β-萘基乙基醚；β-萘基异丁基醚；β-萘基甲基醚；柚皮苷二氢查耳酮；柚皮苷提取物(葡萄柚(Citrus Paradisi Macf.))；游霉素；天然气；N-(1,1-二甲基-2-羟乙基)-2,2-二乙基丁酰胺；新橙皮苷二氢查耳酮；D-新薄荷醇；纽甜；橙花醇；橙花油(酸橙(Citrus Aurantium L.))；橙花叔醇；橙花叔醇氧化物；乙酸橙花基酯；丁酸橙花基酯；甲酸橙花基酯；异丁酸橙花基酯；异戊酸橙花基酯；丙酸橙花基酯；N-乙基-2,2-二异丙基丁酰胺；N-(2-羟乙基)-2,3-二甲基-2-异丙基丁酰胺；烟酸；烟酰胺；镍；烟酰胺-抗坏血酸复合物；尼日尔杜仲胶(Ficus Platyphylla Del.)；乳酸链球菌肽制剂；重齿铁线木；硝酸钠和硝酸钾；亚硝酸钠和亚硝酸钾；氮；氮氧化物；亚硝酰氯；一氧化二氮；(+/-)-N-乳酰基酪胺；2,4-壬二烯醛；2-反-6-反-壬二烯醛；2,6-壬二烯醛二乙基缩醛；2,4-壬二烯-1-醇；(E)-3-(Z)-6-壬二烯-1-醇；(Z)(Z)-3,6-壬二烯-1-醇；2,6-壬二烯-1-醇；(E,Z)-2,6-壬二烯-1-醇乙酸酯；(E,Z)-3,6-壬二烯-1-醇乙酸酯；顺,顺-3,6-壬二烯基乙酸酯；γ-壬内酯；壬醛；壬醛二甲基缩醛；壬醛丙二醇缩醛；1,3-壬二醇乙酸酯(混合酯)；1,4-壬二醇二乙酸酯；1,9-壬二硫醇；壬酸；2-壬醇；4-((2-甲基-3-呋喃基)硫代)-5-壬酮；2-壬酮；3-壬酮；2-壬酮丙二醇缩醛；3-壬酮-1-醇；3-壬酮-1-基乙酸酯；壬酰基4-羟基-3-甲氧基苄基酰胺；壬-2,4,6-三烯醛；顺-6-壬烯醛；2-壬烯醛；1-壬烯；(E)-2-壬烯酸；2-壬烯酸γ-内酯；顺-6-壬烯-1-醇；反-2-壬烯-1-醇；顺-2-壬烯-1-醇；3-壬烯-2-酮；8-壬烯-2-酮；5-壬烯-反-2-酮；顺-6-壬烯基乙酸酯；顺-3-壬烯乙酸酯；3-壬基乙酸酯；乙酸壬酯；壬醇；异戊酸壬酯；辛酸壬酯；诺卡酮；N-对苯

乙腈薄荷烷甲酰胺;N-(2-(吡啶-2-基)乙基)-3-对薄荷烷甲酰胺;肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.));肉豆蔻油(肉豆蔻(Myristica Fragrans Houtt.));肉豆蔻油树脂;白橡木片提取物(白栎(Quercus Alba L.));橡木苔藓纯化物(扁枝衣属(Evernia Spp.));橡木苔藓凝结物(栎扁枝衣属(Evernia Prunasti Spp.));英国橡木(夏栎(Quercus Robur L.));燕麦胶;罗勒烯;9,12-十八碳二烯酸(48%)和9,12,15-十八碳三烯酸(52%);δ-十八内酯;γ-十八内酯;9-十八碳烯醛;十八烷基胺;2-反-6-反-辛二烯醛;反,反-2,4-辛二烯醛;(E,E)-2,4-辛二烯-1-醇;3,5-辛二烯-2-酮;反,反-,1,5-辛二烯-3-酮;八氟环丁烷;八氢-4,8a-二甲基-4a(2h)-萘酚;八氢香豆素;δ-辛内酯;γ-辛内酯;辛醛;辛醛二甲基缩醛;辛醛丙二醇缩醛;4,5-辛二酮;2,3-辛二酮;1,8-辛二硫醇;辛酸;3-辛醇;2-辛醇;1-辛醇;2-辛酮;3-辛酮;3-(羟甲基)-2-辛酮;6-辛烯醛;2-辛烯醛;顺-5-辛烯醛;1-辛烯;3-辛烯酸;(E)-2-辛烯酸;(E)-2-辛烯-1-醇;顺-3-辛烯-1-醇;1-辛烯-3-醇;(E)-2-辛烯-4-醇;顺-5-辛烯-1-醇;反-3-辛烯-2-醇;3-辛烯-2-酮;2-辛烯-4-酮;1-辛烯-3-酮;4-辛烯-3-酮;Z-5-辛烯基乙酸酯;1-辛烯-3-基乙酸酯;反-2-辛烯-1-基乙酸酯;反-2-辛烯-1-基丁酸酯;1-辛烯-3-基丁酸酯;(E)-2-(2-辛烯基)环戊酮;顺-3-辛烯基丙酸酯;(Z)-5-辛烯基丙酸酯;1-辛烯基琥珀酸酐;3-辛基乙酸酯;乙酸辛酯;合成的辛醇;丁酸辛酯;3-辛基丁酸酯;甲酸辛酯;3-辛基甲酸酯;2-糠酸辛酯;没食子酸辛酯;庚酸辛酯;异丁酸辛酯;异戊酸辛酯;2-甲基丁酸辛酯;辛酸辛酯;苯基乙酸辛酯;丙酸辛酯;(?)-6-辛基四氢-2h-吡喃-2-酮;邻-乙基S-(2-呋喃基甲基)硫代碳酸酯;奥蒂树油;油酸;来自妥尔油脂肪酸的油酸;蔗糖聚酯;油烯基醇;乳香纯化物(乳香属(Boswellia Spp.));乳香胶树脂(乳香属);乳香油(乳香属);树脂型乳香(乳香属);洋葱油(洋葱(Allium Cepa L.));愈伤草胶;非特异性愈伤草;愈伤草油;愈伤草酊;橙子B;天然橙子香精;天然橙子香精油;橙子提取物;橙子花纯化物(酸橙(Citrus Aurantium L.));苦橙花(酸橙);橙子汁;橙子叶纯化物(酸橙);蒸馏的橙子油(甜橙(Citrus Sinensis(L.)Osbeck));无萜的橙子油(甜橙);橙子皮;苦橙皮提取物(酸橙(Citrus Aurantium L.));苦橙皮油(酸橙);甜橙皮提取物(甜橙);甜橙皮油(甜橙);无萜的甜橙皮油(甜橙);欧洲牛至(牛至属(Origanum Spp.));牛至(过江藤属(Lippia Spp.),通常为墨西哥牛至(Usually L.Graveolens Hbk));牛至(其他属,包括鞘蕊花属、马缨丹属和山香属);牛至油(提取物)(头状百里香(Thymus Capitatus Hoff.Et Link));奥林内酯(Orin Lactone);L-鸟氨酸单盐酸盐/鸟氨酸;鸢尾草凝结物液体油(香根鸢尾(Iris Florentina L.));鸢尾草根提取物(香根鸢尾(Iris Florentina L.));桂花纯化物;牛胆汁提取物;环氧乙烷(氯甲基)与氨的聚合物,与氯甲烷的反应产物;3-氧代丁醛,二甲基缩醛;5-氧代癸酸;3-氧代癸酸甘油酯;5-氧代十二烷酸;3-氧代十二烷酸甘油酯;2-氧代-3-乙基-4-丁内酯;3-氧代十六烷酸甘油酯;3-氧代己酸二甘油酯;5-氧代辛酸;3-氧代辛酸甘油酯;2-氧代戊二酸;2-氧代-3-苯基丙酸;3-氧代十四烷酸甘油酯;2-氧代硫杂环戊烷;氧化硬脂精;臭氧;棕榈酸;胰酶制剂;三色堇(三色堇(Viola Tricolor L.));D-泛酰胺;D-泛基醇;木瓜蛋白酶(Carica Papaya L.);红辣椒(辣椒(Capsicum Annuum L.));红辣椒油树脂(辣椒);合成的石蜡和琥珀酸衍生物;石蜡;三聚乙醛;奶酪;切达奶酪;奶酪粉;帕玛森奶酪;Reggiano奶酪;荷兰芹油(欧芹属(Petroselinum Spp.));荷兰芹油树脂(欧芹属);荷兰芹(欧芹属);西番莲提取物;西番莲(西番莲(Passiflora Incarnata L.));广藿香油(刺蕊草属(Pogostemon Spp.));桃仁提取物(京桃(Prunus

Persica Sieb Et Zucc.))；桃叶提取物(桃(Prunus Persica(L.)Batsch))；桃叶(桃)；花生油；花生硬脂精(落花生(Arachis Hypogaea L.))；美洲山核桃壳粉；果胶；酰胺化的果胶；来自黑曲霉(Aspergillus Niger)的果胶酶；来自枯草芽孢杆菌(Bacillus Subtilis)的果胶酶；改性果胶；Peg脂肪酸酯以及甘油单酯、甘油二酯和甘油三酯混合物；潘达莱树胶(Pendare，Couma Macrocarpa Barb.Rodr.和Couma Utilis(Mart.)Muell.Arg.)；来自枯草芽孢杆菌(Bacillus Subtilis)、罗克福尔青霉菌(Penicillium Roqueforti)的青霉素酶；美洲薄荷油(普列薄荷(Hedeoma Pulegiodes(L.)))；欧洲薄荷油(唇萼薄荷(Mentha Pulegium L.))；ω-十五内酯；十五烷酸；2-十五烷酮；2,4-戊二烯醛；2,3-戊二酮；3-戊硫醇；2-戊硫醇；1-戊硫醇；2-戊醇；2-戊酮；2-戊酰基呋喃；2-戊烯醛；4-戊烯醛；2-戊烯酸；4-戊烯酸；1-戊烯-3-醇；2-戊烯-1-醇；3-戊烯-2-酮；1-戊烯-3-酮；4-戊烯基乙酸酯；戊-2-烯基己酸酯；4-戊烯基异硫氰酸酯；2-戊烯基-4-丙基-1,3-氧硫杂环己烷(异构体的混合物)；2-戊基乙酸酯；戊胺；2-戊基-1-丁烯-3-酮；2-戊基丁酸酯；2-戊基呋喃；戊基2-呋喃基酮；5-戊基-3h-呋喃-2-酮；2-戊基-3-甲基-2-环戊烯-1-酮；2-戊基2-甲基戊酸酯；2-戊基吡啶；2-戊基噻唑；2-戊基噻吩；黑胡椒油(胡椒(Piper Nigrum L.))；黑胡椒油树脂(胡椒)；黑胡椒(胡椒)；红椒；胡椒薄荷叶(辣薄荷(Mentha Piperita L.))；胡椒薄荷油(辣薄荷)；胡椒薄荷植物；红辣椒；白胡椒油(胡椒)；白胡椒油树脂(胡椒)；白胡椒(胡椒(Piper Nigrum L.))；胃蛋白酶；胨；过氧乙酸；紫苏醛；紫苏醛丙二醇缩醛；紫苏叶油；佩里洛胶(Perillo)；乙酸紫苏子基酯；高碘酸；柠檬叶油(柠檬(Citrus Limon(L.)Burm.F.))；柑橘叶油(柑橘(Citrus Reticulata Blanco Var.Mandarin))；橙叶油(酸橙(Citrus Aurantium L.))；矿脂；石油烃；无嗅轻石脑油；石油蜡；合成石油蜡；红法夫酵母；α-水芹烯；乙酸苯乙基酯；苯乙醇；苯乙胺；邻氨基苯甲酸苯乙基酯；苯甲酸苯乙基酯；丁酸苯乙基酯；肉桂酸苯乙基酯；癸酸苯乙基酯；甲酸苯乙基酯；2-糠酸苯乙基酯；己酸苯乙基酯；异丁酸苯乙基酯；异硫氰酸苯乙基酯；异戊酸苯乙基酯；2-甲基丁酸苯乙基酯；辛酸苯乙基酯；苯基乙酸苯乙基酯；丙酸苯乙基酯；水杨酸苯乙基酯；千里酸苯乙基酯；愒各酸苯乙基酯；苯酚；交联的四亚乙基五胺活化的苯酚-甲醛；交联的三亚乙基四胺活化的苯酚-甲醛；交联的三亚乙基四胺和四亚乙基五胺活化的苯酚-甲醛；亚硫酸盐改性的交联的苯酚-甲醛；苯氧基乙酸；2-苯氧基乙基异丁酸酯；2-苯氧基乙基丙酸酯；苯乙醛；苯乙醛2,3-丁二醇缩醛；苯乙醛二乙基缩醛；苯乙醛二异丁基缩醛；苯乙醛二甲基缩醛；苯乙醛甘油基缩醛；苯乙醛丙二醇缩醛；乙酸苯酯；苯乙酸；Dl-苯基丙氨酸；L-苯基丙氨酸；4-苯基-2-丁醇；2-苯基-2-丁烯醛；4-苯基-3-丁烯-2-醇；4-苯基-3-丁烯-2-酮；4-苯基-2-丁基乙酸酯；丁酸苯酯；2-苯基-3-乙酯基呋喃；二硫化苯；(+/-)-1-苯基乙硫醇；苯基乙硫醇；(+/-)-2-苯基-4-甲基-2-己烯醛；1-苯基-3-甲基-3-戊醇；1-苯基-3或5-丙基吡唑；5-苯基戊醇；2-苯基-4-戊烯醛；3-苯基-4-戊烯醛；邻苯基苯酚；1-苯基-1,2-丙二酮；3-苯基-1-丙醇；1-苯基-1-丙醇；2-苯基-3-(2-呋喃基)-丙-2-烯醛；3-苯基丙醛；2-苯基丙醛；2-苯基丙醛二甲基缩醛；3-苯基丙酸；3-苯丙基乙酸酯；2-苯丙基丁酸酯；3-苯丙基肉桂酸酯；3-苯丙基甲酸酯；3-苯丙基己酸酯；2-苯丙基异丁酸酯；3-苯丙基异丁酸酯；3-苯丙基异戊酸酯；3-苯丙基丙酸酯；2-(3-苯丙基)吡啶；2-(3-苯丙基)四氢呋喃；水杨酸苯酯；磷酸；磷酰氯；苯酞；叶绿醇；乙酸叶绿基酯；众香子叶油(众香树(Pimenta Officinalis Lindl.))；3-松茨酮；白松树皮提取物固体(北美乔松(Pinus Strobus L.))；白松树皮油(北美乔松)；白松树皮(北美乔松)；α-蒎烯；

β-蒎烯;矮松针油(欧洲山松(Pinus Mugo Turra Var.Pumilio(Haenke)Zenari));欧洲赤松油(欧洲赤松(Pinus Sylvestris L.));松焦油(松属(Pinus Spp.));白松油(松属(Pinus Spp.));松香芹醇;异丁酸松香芹基酯;哌嗪;哌嗪二盐酸盐;哌啶;胡椒碱;胡椒烯酮;胡椒烯酮醚;L-胡椒酮;D-胡椒酮;荜茇馏出物;胡椒醛;胡椒醛丙二醇缩醛;乙酸胡椒基酯;异丁酸胡椒基酯;梅笠草叶提取物(伞形梅笠草(Chimaphila Umbellata Nutt.));1,3-对薄荷二烯-7-醛;对薄荷烷-3,8-二醇;对薄荷烷-7-醇;对薄荷-1-烯-9-醇;聚丙烯酰胺;改性的聚丙烯酰胺树脂;聚(丙烯酸-共-次磷酸酯)钠盐;聚丙烯酸钠盐;聚(烷基(C16-22)丙烯酸酯);聚右旋糖;聚(二乙烯基苯-共-乙基苯乙烯);聚(二乙烯基苯-共-三甲基(乙烯基苄基)氯化铵);聚乙烯(M W 2,000-21,000);聚乙二醇(M W 200-9,500);聚乙二醇(400)二油酸酯;氧化的聚乙烯;聚乙烯亚胺与1,2-二氯乙烷的反应产物;脂肪酸的聚甘油酯;椰子油脂肪酸的邻苯二甲酸聚甘油酯;聚异丁烯(最小分子量37,000);聚柠檬烯;聚马来酸;聚马来酸钠盐;聚(马来酸酐)钠盐;聚氧乙烯(600)二油酸酯;聚氧乙烯二油酸酯;聚氧乙烯(600)单蓖麻醇酸酯;聚氧乙烯40单硬脂酸酯;聚丙二醇(分子量1,200-3,000);聚山梨醇酯20;聚山梨醇酯60;聚山梨醇酯65;聚山梨醇酯80;氯甲基化然后用三甲胺、二甲胺、二亚乙基三胺或三乙醇胺来胺化的交联的聚苯乙烯;聚乙酸乙烯酯;聚乙烯醇;聚乙烯基聚吡咯烷酮;聚乙烯基吡咯烷酮;石榴皮提取物(石榴(Punica Granatum L.));杨树芽(杨属(Populus Spp.));罂粟籽(罂粟(Papaver Somniferum L.));乙酸钾;酸式焦磷酸钾;酸式酒石酸钾;苯甲酸钾;碳酸氢钾;亚硫酸氢钾;硼酸钾;溴酸钾;溴化钾;癸酸钾;辛酸钾;碳酸钾;酪蛋白酸钾;氯化钾;柠檬酸钾;2-(1'-乙氧基)乙氧基丙酸酯;富马酸钾;赤霉酸钾;葡糖酸钾;甘油磷酸钾;氢氧化钾;连二磷酸钾;次磷酸钾;碘酸钾;碘化钾;乳酸钾;月桂酸钾;焦亚硫酸钾;N-甲基二硫代氨基甲酸钾;肉豆蔻酸钾;硝酸钾;亚硝酸钾;油酸钾;棕榈酸钾;果胶酸钾;高锰酸钾;过硫酸钾;磷酸二氢钾;磷酸三钾;聚偏磷酸钾;焦磷酸钾;脂肪酸的钾盐;山梨酸钾;硬脂酸钾;硫酸钾;亚硫酸钾;三聚磷酸钾;马铃薯淀粉;乙酸异戊二烯基酯(Prenyl Acetate);苯甲酸异戊二烯基酯;己酸异戊二烯基酯;甲酸异戊二烯基酯;异丁酸异戊二烯基酯;硫代乙酸异戊二烯基酯;异戊二烯硫醇;花椒皮提取物(秦椒属(Xanthoxylum Spp.));花椒皮油;L-脯氨酸;1,2-(二(1'-乙氧基)乙氧基)丙烷;丙烷;1,3-丙烷二硫醇;1,2-丙烷二硫醇;1,1-丙烷二硫醇;2-丙硫醇;3-(甲基硫代)丙醇;(2-呋喃基)-2-丙酮;1-(对甲氧基苯基)-2-丙酮;二-(1-丙烯基)-硫醚(异构体的混合物);4-丙烯基-2,6-二甲氧基苯酚;丙烯基乙基愈创木酚;(Z)-4-丙烯基苯酚;4-(2-丙烯基)苯基-β-D-吡喃葡萄糖苷;丙烯基丙基二硫醚;丙醛;3-(甲基硫代)丙醛;丙酸;2-(4-甲基-2-羟苯基)丙酸-γ-内酯;2-丙酰基吡咯;2-丙酰基吡咯啉;2-丙酰基噻唑;2-丙酰基-2-噻唑啉;苯丙酮;乙酸丙酯;丙醇;丙胺;对丙基茴香醚;苯甲酸丙酯;丁酸丙酯;肉桂酸丙酯;2,4-癸二烯酸丙酯;4-丙基-2,6-二甲氧基苯酚;2-丙基-4,5-二甲基噁唑;丙基二硫醚;丙烯氯醇;丙二醇;丙二醇海藻酸酯;丙二醇二乙酸酯;丙二醇二苯甲酸酯;丙二醇二丁酸酯;丙二醇二己酸酯;丙二醇二-2-甲基丁酸酯;丙二醇二辛酸酯;丙二醇二丙酸酯;丙二醇脂肪和脂肪酸的单酯和二酯;丙二醇单丁酸酯;丙二醇单己酸酯;丙二醇单-2-甲基丁酸酯;丙二醇硬脂酸酯;环氧丙烷;甲酸丙酯;2-呋喃丙烯酸丙酯;2-糠酸丙酯;没食子酸丙酯;庚酸丙酯;己酸丙酯;对羟基苯甲酸丙酯;3-亚丙基苯酞;异丁酸丙酯;异戊酸丙酯;乙酰丙酸丙酯;丙硫醇;2-巯基丙酸丙酯;丙基2-甲基-3-呋喃基二硫醚;α-丙基苯乙醇;对丙基苯酚;邻丙基苯酚;苯基

乙酸丙酯;丙烷硫代磺酸丙酯;丙酸丙酯;2-丙基吡嗪;2-丙基吡啶;丙酮酸丙酯;山梨酸丙酯;4-叔丁基苯基乙酸丙酯;硫代乙酸丙酯;来自黄曲霉(Aspergillus Flavus)的蛋白酶;来自黑曲霉(Aspergillus Niger)的蛋白酶;来自米曲霉(Aspergillus Oryzae)的蛋白酶;来自解淀粉芽孢杆菌(Bacillus Amyloliquefaciens)的蛋白酶;来自地衣形芽孢杆菌(Bacillus Licheniformis)的蛋白酶;来自枯草芽孢杆菌(Bacillus Subtilis)的蛋白酶;水解的动物蛋白质;蛋白质水解产物;水解的奶蛋白质;水解的蔬菜蛋白质;假紫罗酮;车前籽壳;胡薄荷酮;浆;吡嗪;吡嗪乙硫醇;吡嗪基甲基硫醚;3-(2-甲基丙基)吡啶;吡啶;2-吡啶甲硫醇;吡哆醇;吡哆醇盐酸盐;木蜡酸;木蜡酸提取物;吡咯;吡咯烷;吡咯烷基-[1,2e]-4h-2,4-二甲基-1,3,5-二噻嗪;1-吡咯啉;丙酮醛;丙酮酸;苦木提取物(牙买加苦木(Picrasma Excelsa(Sw.)Planch)或苏林南苦木(Quassia Amara L.));季铵氯化物组合;白坚木皮提取物;皂树提取物(皂树(Quillaja Saponaria Molina));皂树(皂树);榅桲籽提取物(榅桲属(Cydonia Spp.));重硫酸奎宁;盐酸奎宁;硫酸奎宁;喹啉;氢化油菜籽油;氢化的超甘油化的油菜籽油;低级芥酸菜籽油;部分氢化的低级芥酸菜籽油;瑞鲍迪苷C;瑞鲍迪苷A;得自甲醛、丙酮和四亚乙基五胺的凝乳酶(Rennet)树脂;间苯二酚;L-鼠李糖;娜檀根提取物(刺球果属(Krameria Spp.));玫瑰醇;乙酸玫瑰基酯;丁酸玫瑰基酯;甲酸玫瑰基酯;异丁酸玫瑰基酯;异戊酸玫瑰基酯;苯基乙酸玫瑰基酯;丙酸玫瑰基酯;食用大黄根(食用大黄(Rheum Rhaponticum L.));大黄根(大黄属(Rheum Spp.));核黄素;核黄素5'-磷酸酯;核黄素5'-磷酸酯钠;D-核糖;米糠蜡;磨碎的大米;大米淀粉;(R)-(-)-1-辛烯-3-醇;玫瑰纯化物(蔷薇属(Rosa Spp.));玫瑰花苞(蔷薇属);玫瑰花(蔷薇属);玫瑰果提取物(蔷薇属);玫瑰叶(蔷薇属);玫瑰茄(玫瑰茄(Hibiscus Sabdariffa L.));迷迭香提取物(迷迭香(Rosmarinus Officinalis L.));迷迭香油(迷迭香);迷迭香油树脂;迷迭香(迷迭香);玫瑰油(蔷薇属(Rosa Spp.));浓玫瑰水(百叶蔷薇(Rosa Centifolia L.));山榄胶(山榄属(Micropholis Spp.),也被称为铁榄属(Sideroxylon Spp.));松香与富马酸的加合物,季戊四醇酯;松香甘油酯;脂松香甘油酯;部分氢化的脂松香或木松香甘油酯;部分氢化的脂松香或木松香季戊四醇酯;脂松香或木松香季戊四醇酯;石灰松香;部分氢化的松香甲基酯;部分二聚化的松香钙盐;部分二聚化的松香甘油酯;部分氢化的松香;松香(松属(Pinus Spp.))以及松香衍生物;聚合的松香甘油酯;松香妥尔油甘油酯;木松香;木松香甘油酯;木松香马来酸酐改性季戊四醇酯,酸值#176-186;木松香马来酸酐改性季戊四醇酯,酸值#134-145;(1r,2s,5r)-N-(4-甲氧基苯基)-5-甲基-2-(1-甲基乙基)环己烷甲酰胺;天然橡胶-熏制的片和乳胶固体(橡胶树(Hevea Brasiliensis));芸香油(芸香(Ruta Graveolens L.));芸香(芸香);朗姆酒;朗姆醚;芸香苷;糖精;糖精铵盐;糖精钙盐;糖精钠盐;藏红花(番红花(Crocus Sativus L.));藏红花提取物(番红花(Crocus Sativus L.));黄樟的不含黄樟素的提取物;希腊鼠尾草(希腊苏草(Salvia Triloba L.));鼠尾草油(药用鼠尾草(Salvia Officinalis L.));鼠尾草油树脂(药用鼠尾草);鼠尾草(药用鼠尾草);西班牙鼠尾草油(薰衣草叶鼠尾草(Salvia Lavandulaefolia Vahl.));水杨醛;水杨酸;脂肪酸的盐;紫檀(檀香紫檀(Pterocarpus Santalinus L.F.));白檀(檀香(Santalum Album L.));黄檀油(檀香);山达脂(山达脂柏(Tetraclinis Articulata(Vahl.)Mast.));β檀香醇;α檀香醇;檀香醇(α和β);乙酸檀香基酯;苯基乙酸檀香基酯;佛手;菝葜提取物(菝葜属(Smilax Spp.));黄樟树皮提取物(不含黄樟素)(北美檫树(Sassafras Albidum(Nutt.)

Nees))；黄樟叶(不含黄樟素)(北美檫树)；肠衣(Hcl和纤维素纤维)；夏香薄荷油(夏香薄荷(Satureja Hortensis L.))；夏香薄荷油树脂(夏香薄荷)；夏香薄荷(夏香薄荷)；冬香薄荷油(冬香薄荷(Satureja Montana L.))；冬香薄荷油树脂(冬香薄荷)；冬香薄荷(冬香薄荷)；柔毛肖乳香油(柔毛肖乳香(Schinus Molle L.))；(-)-香紫苏醇；香紫苏内酯；苏格兰绿薄荷油；苏格兰留兰香(Mentha Cardiaca L.)；2-仲丁基环己酮；仲丁基乙基醚；亚历山大番泻叶(尖叶番泻树(Cassia Acutifolia Delile))；L-丝氨酸；蛇根(蛇根马兜铃(Aristolochia Serpentaria L.))；芝麻(芝麻(Sesamum Indicum L.))；乳油木油；纯化的虫胶；虫胶蜡；二氧化硅气凝胶；二氧化硅；银杉针和细枝油(欧洲冷杉(Abies Alba Mill.))；银-银糖衣丸(Silver-Silver Dragees)；苦楝树皮(管状苦水(Simaruba Amara Aubl.))；粪臭素；黑刺李浆果提取物(黑刺李(Prunus Spinosa L.))；黑刺李浆果提取物固体(黑刺李)；黑刺李浆果(黑刺李)；加拿大蛇根草油(加拿大细辛(Asarum Canadense L.))；乙酸钠；酸式焦磷酸钠；N-烷基苯磺酸钠；铝酸钠；酸性或碱性的磷酸钠铝；硅酸铝钠；抗坏血酸钠；苯甲酸钠；碳酸氢钠；亚硫酸氢钠；硼酸钠；硼氢化钠；含水的铝硅酸钙钠；癸酸钠；辛酸钠；碳酸钠；酪蛋白酸钠；氯化钠；亚氯酸钠；叶绿酸铜钠；癸基苯磺酸钠；脱氢乙酸钠；二乙酸钠；二甲基二硫代氨基甲酸钠；十二烷基苯磺酸钠；异抗坏血酸钠；2-乙基己基硫酸钠；柠檬酸焦磷酸钠铁；三聚磷酸钠铁；氟化钠；甲酸钠；富马酸钠；葡庚糖酸钠；葡糖酸钠；六偏磷酸钠；腐殖酸钠；次硫酸钠；氢氧化钠；次氯酸钠；次磷酸钠；乳酸钠；月桂酸钠；月桂基硫酸钠；3-巯基氧代丙酸钠；焦亚硫酸钠；偏磷酸钠；偏硅酸钠；(4-甲氧基苯甲酰氧基)乙酸钠；3-甲氧基-4-羟基肉桂酸钠；2-(4-甲氧基苯氧基)丙酸钠；甲基硫酸钠；单甲基和二甲基萘磺酸钠；肉豆蔻酸钠；硝酸钠；亚硝酸钠；油酸钠；棕榈酸钠；泛酸钠；果胶酸钠；磷酸氢二钠；磷酸二氢钠；磷酸三钠；聚甲基丙烯酸钠；酒石酸钾钠；丙酸钠；焦磷酸钠；脂肪酸的钠盐；倍半碳酸钠；硅酸钠；山梨酸钠；硬脂酸钠；硬脂酰基-2-乳酸钠；硬脂基富马酸钠；硫酸钠；硫化钠；亚硫酸钠；酒石酸钠；牛磺胆酸钠；硫代硫酸钠；三聚磷酸钠；偏硅酸锌钠；山梨酸；失水山梨糖醇单油酸酯；失水山梨糖醇单硬脂酸酯；D-山梨糖醇；山梨糖；羟基化的大豆油脂肪酸；乙氧基化的大豆脂肪酸胺；环氧化的大豆油；氢化的大豆油；酶活化的大豆蛋白浓缩物；大豆蛋白分离物；绿薄荷提取物(留兰香(Mentha Spicata L.))；绿薄荷(留兰香)；绿薄荷油(留兰香)；鲸油；氢化鲸油；甘松提取物；螺(2,4-二硫杂-1-甲基-8-氧杂二环(3.3.0)辛烷-3,3'-(1'-氧杂-2'-甲基)环戊烷)；云杉针和细枝提取物(云杉属(Picea Spp.))；云杉针和细枝油(云杉属(Picea Spp.))；(2s,5r)-N-[4-(2-氨基-2-氧代乙基)苯基]-5-甲基-2-(丙-2-基)环己烷甲酰胺；氯化锡；氯化亚锡；酸改性淀粉；α-淀粉酶改性淀粉；漂白淀粉；改性食用淀粉；改性食用淀粉：乙酰化二淀粉己二酸酯；改性食用淀粉：乙酰化二淀粉甘油；改性食用淀粉：乙酰化二淀粉氧基丙醇；改性食用淀粉：乙酰化二淀粉磷酸酯；改性食用淀粉：β-淀粉酶改性的淀粉；改性食用淀粉：β-淀粉酶辛烯基琥珀酸淀粉钠；改性食用淀粉：二淀粉甘油；改性食用淀粉：二淀粉氧基丙醇；改性食用淀粉：二淀粉磷酸酯(来自磷酰氯)；改性食用淀粉：二淀粉磷酸盐(来自三偏磷酸钠)；改性食用淀粉：葡糖淀粉酶改性的淀粉；改性食用淀粉：羟丙基二淀粉甘油；改性食用淀粉：羟丙基二淀粉磷酸酯；改性食用淀粉：羟丙基淀粉；改性食用淀粉：异淀粉酶改性的淀粉；改性食用淀粉：氧化的羟丙基淀粉；改性食用淀粉：氧化淀粉；改性食用淀粉：磷酸化的二淀粉磷酸酯；改性食用淀粉：支链淀粉酶改性的淀粉；改性食用淀粉：淀粉乙酸酯；改性食用淀粉：辛烯基琥珀酸淀粉铝；

改性食用淀粉;淀粉磷酸酯;改性食用淀粉:辛烯基琥珀酸淀粉钠;改性食用淀粉:琥珀酸淀粉钠;改性食用淀粉:琥珀酰基二淀粉甘油;预胶化的淀粉;未改性淀粉;硬脂酸;硬脂醇;硬脂醇加蜂蜡;柠檬酸硬脂基酯;柠檬酸硬脂酰单甘油酯;S-(四氢-2,5-二甲基-3-呋喃基)硫代乙酸酯;圣约翰草叶、花和茎(贯叶金丝桃(Hypericum Perforatuml.));苏合香提取物(枫香属(Liquidambar Spp.));苏合香(枫香属);苏合香油;苯乙烯;苯乙烯-二乙烯基苯-丙烯腈磺化三元共聚物;氯甲基化、胺化、氧化的苯乙烯-二乙烯基苯共聚物;苯乙烯-二乙烯基苯-丙烯酸甲酯磺化三元共聚物;苯乙烯、二乙烯基苯磺化共聚物;苯乙烯-Dvb-丙烯腈-丙烯酸甲酯磺化四元共聚物;琥珀酸;琥珀酸酐;琥珀酰基化的明胶;琥珀酰基化的甘油单酯;琥珀硬脂精(Succistearin);三氯蔗糖;蔗糖;蔗糖乙酸异丁酸酯;蔗糖脂肪酸酯;蔗糖液体;蔗糖单棕榈酸酯;蔗糖八乙酸酯;蔗糖低聚酯;甜菜汁提取物;甜菜提取物调味料基质;氨基磺酸;强碱的亚硫酸盐;亚硫酸盐化剂;磺丙基纤维素;二氧化硫;硫酸;亚硫酸;甜黑莓叶提取物;万寿菊粉和提取物;万寿菊油(万寿菊属(Tagetes Spp.));滑石;氢化牛脂醇;牛脂;牛肉;牛脂片;氢化牛脂;氢化、氧化或硫酸化的牛脂;罗望子提取物(酸豆(Tamarindus Indica L.));罗望子;橘子香精;橘子提取物(柑橘(Citrus Reticulata Blanco));橘子油(柑橘);鞣酸;艾菊油(菊蒿);艾菊(菊蒿);木薯淀粉;龙嵩(龙蒿(Artemisia Dracunculus L.));龙嵩提取物(龙蒿);龙嵩油(龙蒿);L酒石酸;牛磺酸;牛磺胆酸;茶提取物(茶(Thea Sinensis L.));茶树油(互生叶白千层(Melaleuca Alternifolia));萜烯树脂;天然萜烯树脂;合成萜烯树脂;α-松油烯;γ-松油烯;α-松油醇;β-松油醇;异松油烯;乙酸松油基酯;α-松油基邻氨基苯甲酸酯;丁酸松油基酯;肉桂酸松油基酯;甲酸松油基酯;异丁酸松油基酯;异戊酸松油基酯;丙酸松油基酯;叔丁基氢醌;2-叔戊基环己基乙酸酯;δ-十四内酯;(Z)-8-十四烯醛;十四-2-烯醛;9-十四碳烯-5-内酯;与表氯醇交联的四亚乙基五胺;1,1'-(四氢-6a-羟基-2,3a,5-三甲基呋喃并[2,3-D]-1,3-间二氧杂环戊烯-2,5-二基)双-乙酮;1,2,5,6-四氢枯茗酸;4,5,6,7-四氢-3,6-二甲基苯并呋喃;乙酸四氢糠基酯;四氢糠醇;丁酸四氢糠基酯;肉桂酸四氢糠基酯;2-四氢糠基2-巯基丙酸酯;丙酸四氢糠基酯;四氢沉香醇;四氢-4-甲基-2-(2-甲基丙烯-1-基)吡喃;四氢-假-紫罗酮;5,6,7,8-四氢喹喔啉;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-醇;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-酮;α-(对-(1,1,3,3-四甲基丁基)苯基)-ω-羟基聚(氧基乙烯)(1Mol);α-{对-(1,1,3,3-四甲基丁基)苯基}-ω-羟基聚(氧基乙烯);α-(对-(1,1,3,3-四甲基丁基)苯基)-ω-羟基聚(氧基乙烯)(大于1Mol);四甲基乙基环己烯酮(异构体的混合物);(+/-)-2,6,10,10-四甲基-1-氧杂螺[4,5]癸-2,6-二烯-8-酮;1,5,5,9-四甲基-13-氧杂三环(8.3.0.0(4,9))十三烷;2,3,5,6-四甲基吡嗪;索马甜;索马甜B,重组体;茶螺烷;可可碱;硫胺;硫胺盐酸盐;一硝酸硫胺;噻唑;2-噻吩基二硫醚;1-(2-噻吩基)乙硫醇;2-噻吩基硫醇;2-噻吩基甲醇;硫代乙酸;2,2'-(硫代二亚甲基)-二呋喃;硫代二丙酸;硫代香叶醇;祝福蓟(藏掖花(Cnicus Benedictus L.));祝福蓟提取物(藏掖花);祝福蓟提取物固体(藏掖花);祝福蓟油(藏掖花);L-苏氨酸;4-侧柏醇;侧柏醇;百里香提取物;百里香油(百里香(Thymus Vulgaris L.)和T.Zygis Var.Gracilis Boiss.);百里香油树脂;百里香(铺地百里香(Thymus Serpyllum L.));百里香(百里香);野百里香或铺地百里香提取物(铺地百里香);百里香酚;二氧化钛;α-生育酚乙酸酯;生育酚;甲苯甲醛甘油基缩醛(混合的邻-、间-、对-);甲苯甲醛(混合的邻-、间-、对-);妥卢香脂

提取物(南美槐属(Myroxylon Spp.));妥卢香脂胶(南美槐属(Myroxylon Spp.));邻甲苯硫醇;对甲苯基乙醛;乙酸邻甲苯酯;乙酸对甲苯酯;4-(对甲苯基)-2-丁酮;异丁酸邻甲苯酯;异丁酸对甲苯酯;月桂酸对甲苯酯;3-甲基丁酸对甲苯酯;辛酸对甲苯酯;苯基乙酸对甲苯酯;2-(对甲苯基)-丙醛;水杨酸邻甲苯酯;番茄红素;黄芪胶(黄耆属(Astragalus Spp.));(+/-)-反-和顺-2-己烯醛丙二醇缩醛;2-反-6-顺-十二碳二烯醛;2-反-6-顺-壬二烯醛;邻-反-香豆酸;反-2-癸烯醇;反-3-庚烯基乙酸酯;反-3-己烯醇;反-3-己烯基乙酸酯;反-2-己烯-1-基乙酸酯;反-2-己烯基2-甲基丁酸酯;反-4-壬烯醛;反-3-壬烯-1-醇;反-2-壬烯-4-酮;反-2-壬烯基乙酸酯;反-4-辛烯酸;2-(反-2-戊烯基)环戊酮;反-4-叔丁基环己醇;反,反-2,4-十二碳二烯醛;反-2-反-4-壬二烯;反-2-十三碳烯醇;甜三叶草(Melilotus Coerulea);海藻糖二水合物;三醋酸甘油酯(三乙酸甘油酯);乙酰柠檬酸三丁酯;三氯乙烯;十三醛;十三烷酸;2-十三烷酮;2-反,4-顺,7-顺-十三碳三烯醛;2-十三碳烯醛;三(十二烷基)胺;三乙醇胺;三乙胺;柠檬酸三乙酯;与表氯醇交联的三亚乙基四胺;三氟甲磺酸;2,4,5-三羟基丁酰苯;(三羟基苯基)-丙-1-酮;三叶苷;三甲胺;三甲胺氧化物;2,6,6-三甲基-1和2-环己烯-1-甲醛;对,α,α-三甲基苄醇;4-(2,6,6-三甲基环己-1,3-二烯基)丁-2-烯-4-酮;2,6,6-三甲基环己-1,3-二烯基甲醛;3,3,5-三甲基环己醇;2,2,6-三甲基环己酮;2,6,6-三甲基-1-环己烯-1-乙醛;2,6,6-三甲基环己-2-烯-1,4-二酮;4-(2,6,6-三甲基环己-1-烯基)丁-2-烯-4-酮;3,3,5-三甲基环己基乙酸酯;2,2,3-三甲基环戊-3-烯-1-基乙醛;4-(2,2,3-三甲基环戊基)丁酸;3,7,11-三甲基十二-2,6,10-三烯基乙酸酯;3,5,5-三甲基己醛;3,5,5-三甲基-1-己醇;2,6,6-三甲基-2-羟基环己酮;(2,6,6-三甲基-2-羟基亚环己基)乙酸γ-内酯;2,3,3-三甲基茚酮;反-和顺-2,4,8-三甲基-3,7-壬-二烯-2-醇;(+/-)-2,4,8-三甲基-7-壬烯-2-醇;1,3,3-三甲基-2-降冰片烷基乙酸酯;2,2,4-三甲基-1,3-氧杂环戊烷;三甲基噁唑;2,4,5-三甲基-δ-3-噁唑啉;2,6,10-三甲基-2,6,10-十五碳三烯-14-酮;2,3,4-三甲基-3-戊醇;2,4,6-三甲基苯酚;2,3,6-三甲基苯酚;2,3,5-三甲基吡嗪;2,4,5-三甲基噻唑;2,2,6-三甲基-6-乙烯基四氢吡喃;三丙胺;1,2,3-三((1'-乙氧基)乙氧基)-丙烷;柠檬酸三钠;次氮基三乙酸三钠;2,4,6-三硫杂庚烷;三硫代丙酮;来自动物组织的胰蛋白酶;L-色氨酸;晚香玉内酯;晚香玉油(晚香玉(Polianthes Tuberosa L.));卡斯德拉胶(Tunu)(Castilla Fallax Cook);姜黄(姜黄(Curcuma Longa L.));姜黄提取物(姜黄);姜黄油树脂(姜黄);松节油;松节油胶(松属(Pinus Spp.));精制的松节油;蒸馏的松节油蒸气[L1](松属);酪胺;L-酪氨酸;L-酪氨酸乙基酯盐酸盐;群青(Ultramarine Blue);2,4-十一碳二烯醛;2,5-十一碳二烯醛;2,3-十一碳二酮;γ-十一内酯;十一醛;十一醛丙二醇缩醛;十一烷酸;2-十一烷醇;2-十一烷酮;1,3,5,7-十一碳四烯;1,3,5-十一碳三烯;9-十一碳烯醛;10-十一碳烯醛;2-十一碳烯醛;(E)-4-十一碳烯醛;10-十一碳烯酸;2-十一碳烯-1-醇;十一碳烯-1-醇;2-十一碳烯-1-醇;10-十一碳烯-2-酮;10-十一碳烯-1-基乙酸酯;十一烷醇;N-十一烷基苯磺酸;脲;脲酶制剂(发酵乳杆菌(Lactobacillus Fermentum));朱栾倍半萜;戊醛;戊醛二丁基缩醛;戊醛丙二醇缩醛;缬草根提取物(缬草(Valeriana Officinalis L.));缬草根油(缬草(Valeriana Officinalis L.));缬草酸;γ-戊内酯;L-缬氨酸;香草纯化物(香荚兰属(Vanilla Spp.));香草提取物(香荚兰属);香草油树脂(香荚兰属);香草(香荚兰属);香草酸;香草醛;香草醛乙酸酯;香草醛1,2-丁二醇缩醛;香草醛异丁酸酯;香草醛3-(L-薄荷氧基)丙烷-1,2-二醇缩醛;香草

醛丙二醇缩醛;香草醇;香草基丁基醚;香草基乙基醚;亚香草基丙酮;在Cfr所列之外的蔬菜胶;蔬菜汁;藜芦醛;马鞭草烯醇;马鞭草烯酮;Veronica(水苦叶(Veronica Officinalis L.));欧洲马鞭草(马鞭草(Verbena Officinalis L.));岩兰草油(香根(Vetiveria Zizanioides Stapf));岩兰草醇;岩兰草(香根);乙酸岩兰草基酯;乙酸乙烯酯;邻乙烯基茴香醚;氯乙烯-偏二氯乙烯共聚物;对乙烯基苯酚;紫罗兰叶纯化物(香堇菜(Viola Odorata L.));瑞士紫罗兰(Viola Calcarata L.);维生素D-2;维生素D-3;维生素B-12;维生素A;维生素A乙酸酯;维生素B复合物和糖浆;维生素D;维生素K;维生素A棕榈酸酯;胡桃壳提取物(胡桃属(Juglans Spp.));胡桃叶提取物(胡桃属);小麦麸质;小麦淀粉;乳清;脱乳糖的乳清;去矿物质的乳清;部分去矿物质且部分脱乳糖的乳清;乳清蛋白浓缩物;乳清粉末;冬青提取物(平铺白珠树(Gaultheria Procumbens L.));冬青油(平铺白珠树);甜车叶草(车轴草(Asperula Odorata L.));麦芽汁;黄原胶;叶黄素;2,6-二甲苯酚;2,5-二甲苯酚;3,4-二甲苯酚;木糖醇;D-木糖;蓍草草药(蓍(Achillea Millefolium L.));蓍草油(蓍(Achillea Millefolium L.));酵母自溶产物;经干燥辐射的酵母;自溶的酵母提取物;酵母-麦芽提取物;酵母;干酵母;苏打的黄色氰化物;巴拉圭茶流体提取物(北美圣草(Eriodictyon Californicum(Hook And Arn)Torr));依兰树油(依兰(Cananga Odorata Hook.F.And Thomas));短叶丝兰(小叶丝兰(Yucca Brevifolia Engelm.));莫哈弗丝兰提取物(丝兰属(Yucca Spp.));Yuzunone;莪术皮提取物(莪术(Curcuma Zedoaria(Berg.)Rosc.));莪术(莪术(Curcuma Zedoaria(Berg.)Rosc.));玉米蛋白粉;乙酸锌;碳酸锌;氯化锌;连二亚硫酸锌;葡糖酸锌;蛋氨酸硫酸锌;氧化锌;硬脂酸锌;硫酸锌和姜酮。

[0311] 食品添加剂也可以包括但不限于香草醛;乙基香草醛;2-羟基-4-甲氧基苯甲醛;乙基香草醛异丁酸酯(＝3乙氧基-4-异丁酰氧基苯甲醛);呋喃酮.RTM.(2,5-二甲基-4-羟基-3(2H)-呋喃酮)和衍生物(例如,酱油酮;2-乙基-4-羟基-5-甲基-3(2H)-呋喃酮);高呋喃酮(2-乙基-5-甲基-4-羟基-3(2H)-呋喃酮和5-乙基-2-甲基-4-羟基-3(2H)-呋喃酮);麦芽酚及其衍生物(例如,乙基麦芽酚);香豆素及其衍生物;γ-内酯(例如,γ-十一内酯;γ-壬内酯);δ-内酯(例如,4-甲基δ-内酯;厚壳桂内酯;δ-癸内酯;tuberolactone);山梨酸甲酯;双香草醛;4-羟基-2(或5)-乙基-5(或2)-甲基-3(2H)呋喃酮;2-羟基-3-甲基-2-环戊烯酮;3-羟基-4,5-二甲基-2(5H)-呋喃酮;水果酯和水果内酯(例如,乙酸正丁基酯;乙酸异戊基酯;丙酸乙基酯;丁酸乙基酯;丁酸正丁基酯;丁酸异戊基酯;3-甲基-丁酸乙基酯;正己酸乙基酯;正己酸烯丙基酯;正己酸正丁基酯;正辛酸乙基酯;乙基-3-甲基-3-苯基缩水甘油酸酯;乙基-2-反-4-顺-癸二烯酸酯);4-(对羟苯基)-2-丁酮;1,1-二甲氧基-2,2,5-三甲基-4-己烷;2,6-二甲基-5-庚烯-1-醛;以及苯乙醛及其混合物;(a2)糖类,选自蔗糖,海藻糖,乳糖,麦芽糖,松三糖,蜜二糖,蜜三糖,帕拉金糖,乳果糖,D-果糖,D-葡萄糖,D-半乳糖,L-鼠李糖,D-山梨糖,D-甘露糖,D-塔格糖,D-阿拉伯糖,L-阿拉伯糖,D-核糖,D-甘油醛,麦芽糖糊精及其混合物,以及含有一种或多种所述糖类的植物制剂,优选地所述糖类的比例为至少5wt％,优选至少15wt％,其中所述糖类也可以作为天然存在或合成产生的混合物存在,其中特别是作为来自玉米淀粉的蜜、转化糖浆或高度富含果糖的糖浆,以及这些糖类的生理可接受的盐,特别是钠盐、钾盐、钙盐或铵盐;(a3)糖醇,优选为选自甘油,赤藓糖醇,苏糖醇,阿糖醇,核糖醇,木糖醇,山梨糖醇,甘露糖醇,麦芽糖醇,异麦芽糖醇,半乳糖醇,乳糖醇及其混合物的天然存在的糖醇,以及这些糖醇的生理可接受的盐,特别是钠盐、钾盐、钙

盐或铵盐;(a4)天然存在的甜味剂,优选地选自(a4-1)奇果甜素,莫奈林,马槟榔甜蛋白,索马甜,仙茅甜蛋白,布那珍,皮泰亭(pentaidin),D-苯基丙氨酸,D-色氨酸,以及得自含有这些氨基酸和/或蛋白质及其混合物的天然资源的提取物或级分,以及这些氨基酸和/或蛋白质的生理可接受的盐,特别是钠盐、钾盐、钙盐或铵盐;(a4-2)新橙皮苷二氢查耳酮,柚皮苷二氢查耳酮,甜菊苷,甜菊双糖苷,瑞鲍迪苷,特别是瑞鲍迪苷A,瑞鲍迪苷B,瑞鲍迪苷C,瑞鲍迪苷D,瑞鲍迪苷E,瑞鲍迪苷F,瑞鲍迪苷G,瑞鲍迪苷H,杜尔可苷和甜茶苷,甜茶糖苷A,甜茶糖苷B,甜茶糖苷G,甜茶糖苷H,甜茶糖苷I,甜茶糖苷J,白云参苷1,白云参苷2,糙苏苷1,糙苏苷2,糙苏苷3和糙苏苷4,万年甘三萜苷A,万年甘三萜苷B,万年甘三萜苷C,万年甘三萜苷D,青钱柳苷A和青钱柳苷I,欧亚水龙骨甜素,多足蕨苷A,叉柱花素1,叉柱花素2,叉柱花素4,落蕨素A,二氢槲皮素-3-乙酸酯,紫苏葶,夜来香苷A子型15,巴西甘草甜素I-V,皮提罗苷,青钱柳苷,无患子倍半萜苷,反-茴香脑,反-肉桂醛,bryosides,bryonosides,bryonodulcosides,肉质雪胆皂苷(carnosiflosides),藤三七雪胆苷(scandenosides),绞股蓝皂苷,三叶苷,根皮苷,二氢黄烷醇,苏木精,青色素,绿原酸,合欢树皂苷,夜来香苷,gaudichaudioside,罗汉果苷,罗汉果苷V,荷南度辛,莫那甜,甘茶叶素,甘草次酸,以及其衍生物和混合物,特别是其苷类(例如甘草甜素),以及这些化合物的生理可接受的盐,特别是钠盐,钾盐,钙盐或铵盐;(a4-3)提取物或提取物的浓缩级分,其选自西非竹竽提取物(卡特莫夫果灌木),甜菊属(Stevia ssp.)(特别是甜叶菊(Stevia rebaudiana))的提取物,swingle提取物(罗汉果(Momordica grosvenorii或Siratia grosvenorii,Luo-Han-Guo)),豆科甘草属(Glycerrhyzia ssp.)(特别是光果甘草(Glycerrhyzia glabra))的提取物,悬钩子属(Rubus ssp.)(特别是甜叶悬钩子(Rubus suavissimus))的提取物,柑橘提取物,以及甜舌草(Lippia dulcis)的提取物,以及它们的混合物,以及(a4-1)至(a4-3)中任何物质的混合物;(a5)合成的甜味物质,优选地选自magap,环己氨磺酸钠或其他的环己氨磺酸的生理可接受的盐,乙酰舒泛K或其他的生理可接受的盐,新橙皮苷二氢查耳酮,柚皮苷二氢查耳酮,糖精,糖精-钠盐,阿斯巴甜,超级阿斯巴甜,纽甜,阿力甜,爱德万甜,紫苏葶,三氯蔗糖,N-(4-氰苯基)-N-(2,3-亚甲二氧苄基)胍乙酸(lugduname),carrelame,sucrononate和sucrooctate。

[0312] 在一些实施方案中,组合物包含本文所述的甜味化合物和/或甜味增强剂,以及一种或多种调味剂。代表性的调味剂包括但不限于,由调味料和提取物制造者协会所认定的那些化合物(FEMA;参见FEMA调味料成分库,可由http://www.femaflavor.org/flavor登录,最后访问为2015年11月16日)。这些调味剂包括:阿拉伯胶(Acacia Gum)(阿拉伯胶树(Acacia Senegal(L.)Willd.));缩醛;乙醛;丙基苯乙基缩醛;对甲氧基苯乙酮;乙酸;(三-)醋精;乙偶姻;苯乙酮;乌头酸;己二酸;琼脂(石花菜属(Gelidium Spp.));苜蓿提取物(紫苜蓿(Medicago Sativa L.));藻胶(海带属(Laminaria Spp.)和其他的海草);海藻酸钠、海藻酸钙和海藻酸铵;多香果(众香树(Pimenta Officinalis Lindl.));多香果油(众香树);多香果油树脂(众香树);邻氨基苯甲酸烯丙基酯;丁酸烯丙基酯;肉桂酸烯丙基酯;环己烷乙酸烯丙基酯;环己烷丁酸烯丙基酯;环己烷己酸烯丙基酯;环己烷丙酸烯丙基酯;环己烷戊酸烯丙基酯;烯丙基二硫醚;2-乙基丁酸烯丙基酯;2-糠酸烯丙基酯;庚酸烯丙基酯;己酸烯丙基酯;烯丙基α-紫罗酮;异硫氰酸烯丙基酯;烯丙基硫醇;壬酸烯丙基酯;辛酸烯丙基酯;苯氧基乙酸烯丙基酯;苯基乙酸烯丙基酯;丙酸烯丙基酯;山梨酸烯丙基酯;烯

丙基硫醚;惕各酸烯丙基酯;10-十一碳烯酸烯丙基酯;异戊酸烯丙基酯;苦杏仁油(Ffpa)(李属(Prunus Spp.));芦荟提取物(芦荟属(Aloe Spp.));蜀葵属植物根(药蜀葵(Althea Officinalis L.));龙涎香酊;黄葵纯化物油(黄葵(Hibiscus Abelmoschus L.));黄葵籽油(黄葵);黄葵酊(黄葵);硫化铵;异戊酸铵;乙酸异戊酯;戊醇;异戊醇;苯甲酸异戊酯;丁酸戊基酯;丁酸异戊酯;α-戊基肉桂醛;α-戊基肉桂醛二甲基缩醛;肉桂酸异戊酯;α-戊基肉桂基乙酸酯;α-戊基肉桂基醇;α-戊基肉桂基甲酸酯;α-戊基肉桂基异戊酸酯;甲酸戊酯;甲酸异戊酯;4(2-呋喃)丁酸异戊酯;3(2-呋喃)丙酸异戊酯;2-糠酸戊基酯;庚酸戊基酯;己酸戊基酯;己酸异戊酯;2-戊基-5或6-酮-1,4-二氧六环;月桂酸异戊酯;壬酸异戊酯;辛酸戊基酯;辛酸异戊酯;苯基乙酸异戊酯;丙酸异戊酯;丙酮酸异戊酯;水杨酸异戊酯;异戊酸异戊酯;反-茴香脑;当归根提取物(欧白芷(Angelica Archangelica L.));当归根油(欧白芷);当归籽提取物(欧白芷);当归籽油(欧白芷);当归茎油(欧白芷);安古斯图拉树皮提取物(Galipea Offincinalis Hancock);茴芹(茴芹(Pimpinella Anisum L.));茴芹油(茴芹);八角茴香(八角(Illicium Verum Hook,F.));八角茴香油(八角(Illicium Verum Hook,F.));茴香醚;对茴香基乙酸酯;茴香醇;丁酸茴香酯;甲酸茴香酯;丙酸茴香酯;胭脂树提取物(红木(Bixa Orellana L.));胭脂树种子(红木);杏仁油(杏(Prunus Armeniaca L.));阿魏流体提取物(阿魏(Ferula Assafoetida L.));阿魏胶(阿魏);阿魏油(阿魏);抗坏血酸;花椒皮提取物(秦椒属(Xanthoxylum Spp.));香蜂草(香蜂花(Melissa Officinalis L.));香蜂草叶提取物(香蜂花);香蜂草油(香蜂花(Melissa Officinalis L.));胶枞油(香脂冷杉(Abies Balsamea(L.)Mill.));胶枞油树脂(香脂冷杉);秘鲁香脂(秘鲁香树(Myroxylon Pereirae Klotzsch));秘鲁香脂油(秘鲁香树);罗勒(罗勒(Ocimum Basilicum L.));罗勒油(罗勒);罗勒油树脂(罗勒);西印度月桂叶提取物(西印度月桂(Pimenta Acris Kostel));西印度月桂叶油(西印度月桂);西印度月桂叶油树脂(西印度月桂);甜月桂(月桂(Laurus Nobilis L.));甜月桂油(月桂);白蜂蜡(意大利蜜蜂(Apis Mellifera L.));苯甲醛;苯甲醛二甲基缩醛;苯甲醛甘油基缩醛;苯甲醛丙二醇缩醛;苯甲酸;安息香;树脂型安息香;二苯甲酮;乙酸苄酯;乙酰乙酸苄酯;苄醇;苯甲酸苄酯;苄基丁基醚;丁酸苄酯;异丁酸苄酯;肉桂酸苄酯;2,3-二甲基巴豆酸苄酯;苄基乙基醚;甲酸苄酯;3-苄基-4-庚酮;苄硫醇;苄基甲氧基乙基缩醛;苯基乙酸苄酯;丙酸苄酯;水杨酸苄酯;异戊酸苄酯;佛手柑油;甜桦木油(坚桦木(Betula Lenta L.));黑莓树皮提取物(悬钩子属(Rubus,Spp.),黑莓亚属(Eubatus));卢氏黑黄檀油;冰片;异冰片;乙酸冰片酯;乙酸异冰片酯;甲酸冰片酯;甲酸异冰片酯;丙酸异冰片酯;戊酸冰片酯;异戊酸冰片酯(内-);异戊酸异冰片酯;波罗尼花纯化物(大柱波罗尼亚(Boronia Megastigma Nees));南非香叶木叶油(布枯属(Barosma Spp.));2-丁酮;黄油酸;黄油酯;黄油蒸馏轻组分;乙酸丁酯;乙酸异丁酯;乙酰乙酸丁酯;乙酰乙酸异丁酯;丁醇;异丁醇;当归酸异丁酯;邻氨基苯甲酸丁酯;邻氨基苯甲酸异丁酯;丁基化的羟基茴香醚;丁基羟基甲苯;苯甲酸异丁酯;丁酸丁酯;丁酸异丁酯;异丁酸丁酯;异丁酸异丁酯;丁酰乳酸丁酯;α-丁基肉桂醛;肉桂酸丁酯;肉桂酸异丁酯;2-癸烯酸丁酯;丙二酸丁乙酯;甲酸丁酯;甲酸异丁酯;3-(2-呋喃)丙酸异丁酯;庚酸丁酯;庚酸异丁酯;己酸丁酯;己酸异丁酯;对羟基苯甲酸丁酯;2-丁基-5-或6-酮-1,4-二氧六环;乳酸丁酯;月桂酸丁酯;乙酰丙酸丁酯;α-异丁基苯乙基醇;苯基乙酸丁酯;苯基乙酸异丁酯;丙酸丁酯;丙酸异丁酯;水杨酸异丁酯;硬脂酸丁酯;丁基硫醚;10-十一碳烯酸丁酯;戊

酸丁酯;异戊酸丁酯;丁醛;异丁醛;丁酸;异丁酸;(三-)酪酯;咖啡因;白千层油(白千层(Melaleuca Leucadendron L.));乙酸钙;茨烯;D-樟脑;日本白樟脑油(白樟(Cinnamomum Camphora(L.)Nees Et Eberm.));卡南加油;辣椒提取物(辣椒属(Capsicum Spp.));辣椒油树脂(辣椒属);焦糖色;葛缕子(葛缕子(Carum Carvi L.));黑种籽草(黑香种草(Nigella Sativa L.));葛缕子油;羧甲基纤维素;小豆蔻(小豆蔻(Elettaria Cardamomum(L.)Maton));小豆蔻种子油(小豆蔻);洋红(胭脂虫(Coccus Cacti L.));稻子豆提取物(长角豆(Ceratonia Siliqua L.));胡萝卜油;香荆芥酚;香芹基乙基醚;香芹醇;4-香芹聪醇;香芹酮;乙酸香芹基酯;丙酸香芹基酯;β-石竹烯;药鼠李无苦味提取物(波希鼠李(Rhamnus Purshiana Dc.));卡藜树皮提取物(巴豆属(Croton Spp.));卡藜树皮油(巴豆属);肉桂(肉桂(Cinnamomum Cassia Blume));肉桂皮提取物(肉桂);肉桂皮油;桂花子(肉桂);金合欢纯化物(金合欢(Acacia Farnesiana(L.)Willd.));海狸香油;海狸香液体(蓖麻属(Castor Spp.));蓖麻油(蓖麻(Ricinus Communis L.));儿茶提取物(儿茶(Acacia Catechu Willd.));儿茶粉末(儿茶(Acacia Catechu Willd.));红椒(长辣椒(Capsicum Annuum L.Var.Longum Sendt));香柏叶油(北美香柏(Thuja Occidentalis L.));芹菜籽(旱芹(Apium Graveolens L.));芹菜籽提取物(旱芹);芹菜籽提取物固体(旱芹);芹菜籽油;英国黄春菊花油(果香菊(Anthemis Nobilis L.));匈牙利黄春菊花油(母菊(Matricaria Chamomilla L.));罗马黄春菊花提取物(果香菊);罗马黄春菊花油(果香菊);野生樱桃树皮提取物(美国樱桃(Prunus Serotina Ehrh.));樱桃月桂油(Ffpa)(桂樱(Prunus Laurocerasus L.));樱桃核提取物(李属(Prunus Spp.));山萝卜(蜡叶峨参(Anthriscus Cerefolium(L.)Hoffm.));菊苣提取物(菊苣(Cichorium Intybus L.));红金鸡纳树皮(鸡纳树(Cinchona Succirubra Pav.)或其杂交种);红金鸡纳树皮提取物(鸡纳树或其杂交种);黄金鸡纳树皮(金鸡纳树属(Cinchona Spp.));黄金鸡纳树皮提取物(金鸡纳树属);金鸡纳提取物(金鸡纳树属);肉桂醛;肉桂醛乙二醇缩醛;肉桂酸;肉桂(樟属(Cinnamomum Spp.));肉桂皮提取物(樟属);肉桂皮油;肉桂叶油;乙酸肉桂基酯;肉桂醇;丁酸肉桂基酯;异丁酸肉桂基酯;肉桂酸肉桂基酯;甲酸肉桂基酯;苯乙酸肉桂基酯;丙酸肉桂基酯;异戊酸肉桂基酯;柠檬醛;柠檬醛二乙基缩醛;柠檬醛二甲基缩醛;柠檬酸;香茅醛;香茅油;Dl-香茅醇;香茅氧基乙醛;乙酸香茅基酯;丁酸香茅基酯;异丁酸香茅基酯;甲酸香茅基酯;苯乙酸香茅基酯;丙酸香茅基酯;戊酸香茅基酯;柑橘皮提取物(柑橘属(Citrus Spp.));灵猫香纯化物(灵猫净油(Viverra Civetta Schreber And Viverra Zibetha Schreber));鼠尾草(香紫苏(Salvia Sclarea L.));鼠尾草油(香紫苏);丁香苞提取物(番樱桃属(Eugenia Spp.));丁香苞油(番樱桃属);丁香苞油树脂(番樱桃属);马达加斯加丁香叶油;红三叶草提取物固体(红车轴草(Trifolium Pratense L.));丁香(番樱桃属(Eugenia Spp.));丁香茎油(番樱桃属);古柯叶提取物(非古柯碱麻醉的)(玻利维亚古柯树(Erythroxylon Coca Lam.));绿法国白兰地油;白法国白兰地油;胡荽(芫荽(Coriandrum Sativum L.));胡荽油(芫荽(Coriandrum Sativum L.));玉米须(玉蜀黍(Zea Mays L.));广木香根油(木香(Saussurea Lappa Clarke));对甲酚;荜澄茄(毕澄茄(Piper Cubeba L.F.));荜澄茄油(毕澄茄(Piper Cubeba L.F.));小茴香(孜然(Cuminum Cyminum L.));枯名醛;黑小茴香(黑香种草(Nigella Sativa L.));小茴香油;库拉索桔皮(Curacao Peel)提取物(酸橙(Citrus Aurantium L.));库拉索桔皮(Curacao Peel)油(酸

橙(Citrus Aurantium L.));黑醋栗芽纯化物(黑茶藨子(Ribes Nigrum L.));环己烷乙酸;乙酸环己基乙酯;乙酸环己基酯;邻氨基苯甲酸环己基酯;丁酸环己基酯;肉桂酸环己基酯;甲酸环己基酯;丙酸环己基酯;异戊酸环己基酯;对伞花烃;蒲公英流体提取物(蒲公英属(Taraxacum Spp.));蒲公英根提取物固体(蒲公英属(Taraxacum Spp.));印蒿油(印蒿(Artemisia Pallens Wall.));γ-癸内酯;δ-癸内酯;癸醛;癸醛二甲基缩醛;癸酸;1-癸醇;2-癸烯醛;乙酸癸基酯;丁酸癸基酯;丙酸癸基酯;二乙酰基二苄醚;4,4-二丁基-γ-丁内酯;癸二酸二丁基酯;苹果酸二乙基酯;丙二酸二乙基酯;癸二酸二乙基酯;琥珀酸二乙基酯;酒石酸二乙基酯;二氢香芹醇;乙酸二氢香芹基酯;二氢香豆素;莳萝(莳萝(Anethum Graveolens L.));莳萝油(莳萝);印度莳萝种子(莳萝属(Anethum Spp.));间二甲氧基苯;对二甲氧基苯;2,4-二甲基苯乙酮;α,α-二甲基苄基异丁酸酯;2,6-二甲基-5-庚烯醛;2,6-二甲基辛醛;3,7-二甲基-1-辛醇;α,α-二甲基苯乙基乙酸酯;α,α-二甲基苯乙醇;α,α-二甲基苯乙基丁酸酯;α,α-二甲基苯乙基甲酸酯;琥珀酸二甲基酯;1,3-二苯基-2-丙酮;磷酸氢二钠;克里特白藓(白藓状牛至(Origanum Dictamnus L.));γ-十二内酯;δ-十二内酯;2-十二烯醛;匍匐冰草提取物(匍匐冰草(Agropyron Repens(L.)Beauv.));血竭提取物(黄藤属(Daemonorops Spp.)或其他植物来源);掌状红皮藻(掌状红皮藻(Rhodymenia Palmata(L.)Grev.));接骨木花(美洲接骨木(Sambucus Canadensis L.)或西洋接骨木(Sambucus Nigra L.));榄香脂胶(橄榄属(Canarium Spp.));榄香脂油(橄榄属);加拿大蓬油(小蓬草(Erigeron Candensis L.));异抗坏血酸(Erythrobic Acid);草蒿脑;龙蒿油(Estragon Oil)(龙蒿(Artemisia Dracunculus L.));对乙氧基苯甲醛;乙酸乙酯;乙酰乙酸乙酯;2-乙酰基-3-苯基丙酸乙酯;乌头酸乙酯(混合酯);丙烯酸乙酯;乙醇;对茴香酸乙酯;邻氨基苯甲酸乙酯;苯甲酸乙酯;苯甲酰基乙酸乙酯;α-乙基苄基丁酸酯;2-乙基丁基乙酸酯;2-乙基丁醛;丁酸乙酯;异丁酸乙酯;2-乙基丁酸;肉桂酸乙酯;环己烷丙酸乙酯;癸酸乙酯;甲酸乙酯;3(2-呋喃基)丙酸乙酯;4-乙基愈创木酚;庚酸乙酯;2-乙基-2-庚烯醛;己酸乙酯;乳酸乙酯;月桂酸乙酯;乙酰丙酸乙酯;2-甲基丁酸乙酯;乙基甲基苯基缩水甘油酸酯;肉豆蔻酸乙酯;亚硝酸乙酯;壬酸乙酯;2-壬炔酸乙酯;辛酸乙酯;油酸乙酯;棕榈酸乙酯;苯基乙酸乙酯;4-苯基丁酸乙酯;3-苯基缩水甘油酸乙酯;3-苯基丙酸乙酯;丙酸乙酯;丙酮酸乙酯;水杨酸乙酯;山梨酸乙酯;愒各酸乙酯;10-十一碳烯酸乙酯;戊酸乙酯;异戊酸乙酯;乙基香草醛;桉油精;桉树油(蓝桉(Eucalyptus Globulus Labille));丁子香酚;异丁子香酚;乙酸丁子香基酯;乙酸异丁子香基酯;苯甲酸丁子香基酯;异丁子香基乙基醚;甲酸丁子香基酯;甲酸异丁子香基酯;丁子香基甲基醚;异丁子香基甲基醚;苯基乙酸异丁子香基酯;金合欢醇;D-葑酮;葑醇;普通茴香(茴香(Foeniculum Vulgare Mill.));甜茴香(球茎茴香(Foeniculum Vulgare Mill.Var Dulce(D.C.));甜茴香油(球茎茴香(Foeniculum Vulgare Mill.Var.Dulce Dc.));葫芦巴[L2](胡芦巴(Trigonella Foenum-Graecum L.));胡芦巴提取物(胡芦巴);胡芦巴油树脂(胡芦巴);甲酸;富马酸;糠醛;乙酸糠基酯;糠醇;2-亚糠基丁醛;糠基硫醇;3-(2-呋喃基)丙烯醛;4-(2-呋喃基)-3-丁烯-2-酮;(2-呋喃基)-2-丙酮;精制杂醇油;高良姜根(山姜属(Alpinia Spp.));高良姜根提取物(山姜属);高良姜根油(山姜属);白松香油(阿魏属(Ferula Spp.));白松香树脂(阿魏属);大蒜油(蒜(Allium Sativum L.));鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.));鹰爪豆提取物(鹰爪豆);龙胆根提取物(黄龙胆(Gentiana Lutea L.));香叶醇;榄香脂胶(橄榄属

(Canarium Spp.))；榄香脂油(橄榄属)；加拿大蓬油(小蓬草(Erigeron Candensis L.))；异抗坏血酸(Erythrobic Acid)；草蒿脑；龙蒿油(Estragon Oil)(龙蒿(Artemisia Dracunculus L.))；对乙氧基苯甲醛；乙酸乙酯；乙酰乙酸乙酯；2-乙酰基-3-苯基丙酸乙酯；乌头酸乙酯(混合酯)；丙烯酸乙酯；乙醇；对茴香酸乙酯；邻氨基苯甲酸乙酯；苯甲酸乙酯；苯甲酰基乙酸乙酯；α-乙基苄基丁酸酯；2-乙基丁基乙酸酯；2-乙基丁醛；丁酸乙酯；异丁酸乙酯；2-乙基丁酸；肉桂酸乙酯；环己烷丙酸乙酯；癸酸乙酯；甲酸乙酯；3(2-呋喃基)丙酸乙酯；4-乙基愈创木酚；庚酸乙酯；2-乙基-2-庚烯醛；己酸乙酯；乳酸乙酯；月桂酸乙酯；乙酰丙酸乙酯；2-甲基丁酸乙酯；乙基甲基苯基缩水甘油酸酯；肉豆蔻酸乙酯；亚硝酸乙酯；壬酸乙酯；2-壬炔酸乙酯；辛酸乙酯；油酸乙酯；棕榈酸乙酯；苯基乙酸乙酯；4-苯基丁酸乙酯；3-苯基缩水甘油酸乙酯；3-苯基丙酸乙酯；丙酸乙酯；丙酮酸乙酯；水杨酸乙酯；山梨酸乙酯；惕各酸乙酯；10-十一碳烯酸乙酯；戊酸乙酯；异戊酸乙酯；乙基香草醛；桉油精；桉树油(蓝桉(Eucalyptus Globulus Labille))；丁子香酚；异丁子香酚；乙酸丁子香基酯；乙酸异丁子香基酯；苯甲酸丁子香基酯；异丁子香基乙基醚；甲酸丁子香基酯；甲酸异丁子香基酯；丁子香基甲基醚；异丁子香基甲基醚；苯基乙酸异丁子香基酯；金合欢醇；D-葑酮；葑醇；普通茴香(茴香(Foeniculum Vulgare Mill.))；甜茴香(球茎茴香(Foeniculum Vulgare Mill.Var Dulce(D.C.))；甜茴香油(球茎茴香)；胡芦巴(胡芦巴(Trigonella Foenum-Graecum L.))；胡芦巴提取物(胡芦巴)；胡芦巴油树脂(胡芦巴)；甲酸；富马酸；糠醛；乙酸糠基酯；糠醇；2-亚糠基丁醛；糠基硫醇；3-(2-呋喃基)丙烯醛；4-(2-呋喃基)-3-丁烯-2-酮；(2-呋喃基)-2-丙酮；精制杂醇油；高良姜根(山姜属(Alpinia Spp.))；高良姜根提取物(山姜属)；高良姜根油(山姜属)；白松香油(阿魏属(Ferula Spp.))；白松香树脂(阿魏属)；大蒜油(蒜(Allium Sativum L.))；鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.))；鹰爪豆提取物(鹰爪豆)；龙胆根提取物(黄龙胆(Gentiana Lutea L.))；香叶醇；岩蔷薇纯化物(岩蔷薇属(Cistus Spp.))；岩蔷薇油(岩蔷薇属)；岩蔷薇油树脂(岩蔷薇属)；乳酸；月桂浆果(月桂(Laurus Nobilis L.))；月桂叶提取物(月桂)；月桂酸；月桂醛；乙酸月桂基酯；月桂醇；醒目熏衣草油(醒目熏衣草(Lavandula Hybrida))；熏衣草(熏衣草(Lavandula Officinalis Chaix))；熏衣草纯化物(熏衣草)；熏衣草凝结物(熏衣草)；熏衣草油(熏衣草)；柠檬提取物(柠檬(Citrus Limon(L.)Burm.F.))；柠檬草油；柠檬油；无萜柠檬油(柠檬)；乙酰丙酸；甘草提取物(甘草属(Glycyrrhiza Spp.))；甘草提取物粉末(洋甘草(Glycyrrhiza Glabra L.))；甘草根(洋甘草)；酸橙油；无萜酸橙油(来檬(Citrus Aurantifolia(Christman)Swingle))；D-柠檬烯；沉香木油(墨西哥沉香木(Bursera Delpechiana Poiss.)和其他的裂榄属(Bursera Spp.))；沉香醇；乙酸沉香基酯；邻氨基苯甲酸沉香基酯；苯甲酸沉香基酯；丁酸沉香基酯；异丁酸沉香基酯；肉桂酸沉香基酯；甲酸沉香基酯；己酸沉香基酯；辛酸沉香基酯；丙酸沉香基酯；异戊酸沉香基酯；椴树花(Tilia Glabra Vent.)；槐胶(长角豆(Ceratonia Siliqua L.))；独活草(欧当归(Levisticum Officinale Koch))；独活草提取物(欧当归)；独活草油(欧当归)；肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.))；肉豆蔻油(肉豆蔻)；肉豆蔻油树脂(肉豆蔻)；L-苹果酸；麦芽酚；压榨的柑橘油；盆栽金盏菊(金盏花(Calendula Officinalis L.))；墨角兰油树脂(马郁兰(Majorana Hortensis Moench-Origanum Majorana L.))；盆栽墨角兰(牛至(Origanum Vulgare L.))；墨角兰种子(马郁兰(Majorana Hortensis Moench-Origanum

Majorana L.))；甜墨角兰(马郁兰)；甜墨角兰油(马郁兰(Origanum Majorana))；对薄荷-1,8-二烯-7-醇；外消旋薄荷醇；(+)-新异薄荷醇；薄荷酮；乙酸薄荷基酯；异戊酸薄荷基酯；对甲氧基苯甲醛；2-甲氧基-4-甲基苯酚；4-(对甲氧基苯基)-2-丁酮；1-(对甲氧基苯基)-1-戊烯-3-酮；1-(对甲氧基苯基)-2-丙酮；2-甲氧基-4-乙烯基苯酚；乙酸甲酯；4'-甲基苯乙酮；2-甲基烯丙基丁酸酯；茴香酸甲酯；邻甲基茴香醚；对甲基茴香醚；邻氨基苯甲酸甲酯；苯甲酸甲酯；α-甲基苄基乙酸酯；α-甲基苄醇；α-甲基苄基丁酸酯；α-甲基苄基异丁酸酯；α-甲基苄基甲酸酯；α-甲基苄基丙酸酯；对叔丁基苯基乙酸甲酯；2-甲基丁醛；3-甲基丁醛；丁酸甲酯；异丁酸甲酯；2-甲基丁酸；甲基纤维素；α-甲基肉桂醛；肉桂酸甲酯；6-甲基香豆素；甲基环戊烯醇酮；4-(3,4-亚甲基二氧基苯基)-2-丁酮；5-甲基糠醛；2-糠酸甲酯；2-甲基-3(2-呋喃基)丙烯醛；庚酸甲酯；2-甲基庚酸；6-甲基-5-庚烯-2-酮；己酸甲酯；2-己烯酸甲酯；对羟基苯甲酸甲酯；甲基-α-紫罗酮；甲基-β-紫罗酮；甲基-δ-紫罗酮；α-异-甲基紫罗酮；月桂酸甲酯；甲硫醇；邻甲氧基苯甲酸甲酯；N-甲基邻氨基苯甲酸甲酯；2-甲基丁酸甲酯；3-甲基硫代丙酸甲酯；4-甲基戊酸甲酯；肉豆蔻酸甲酯；甲基β-萘基酮；壬酸甲酯；2-壬烯酸甲酯；2-壬炔酸甲酯；2-甲基辛醛；辛酸甲酯；2-辛炔酸甲酯；4-甲基-2,3-戊二酮；4-甲基-2-戊酮；β-甲基苯乙基醇；苯基乙酸甲酯；3-甲基-4-苯基-3-丁烯-2-酮；2-甲基-4-苯基-2-丁基乙酸酯；2-甲基-4-苯基-2-丁基异丁酸酯；2-甲基-4-苯基丁醛；3-甲基-2-苯基丁醛；4-苯基丁酸甲酯；4-甲基-1-苯基-2-戊酮；3-苯基丙酸甲酯；丙酸甲酯；2-甲基-3-(对异丙基苯基)丙醛；6-甲基喹啉；水杨酸甲酯；甲基硫醚；3-(甲基硫代)丙醛；2-甲基-3-甲苯基丙醛；2-甲基十一醛；9-十一碳烯酸甲酯；2-十一碳炔[L4]酸甲酯；戊酸甲酯；异戊酸甲酯；2-甲基戊酸；含羞草纯化物(银荆树(Acacia Decurrens Willd.Var.Dealbata))；谷氨酸单钠；山枫提取物固体(穗花槭(Acer Spicatum Lam.))；藏麝香(原麝(Moschus Moschiferus L.))；棕芥(芸薹属(Brassica Spp.))；黄芥(芸薹属)；月桂烯；肉豆蔻醛；肉豆蔻酸；没药胶(没药属(Commiphora Spp.))；没药油(没药属)；β-萘基邻氨基苯甲酸酯；β-萘基乙基醚；柚皮苷提取物(葡萄柚(Citrus Paradisi Macf.))；橙花醇；橙花油(酸橙(Citrus Aurantium L.))；橙花叔醇；乙酸橙花基酯；丁酸橙花基酯；异丁酸橙花基酯；甲酸橙花基酯；丙酸橙花基酯；异戊酸橙花基酯；一氧化二氮；2,6-壬二烯-1-醇；γ-壬内酯；壬醛；1,3-壬二醇乙酸酯(混合酯)；壬酸；2-壬酮；壬酰基4-羟基-3-甲氧基苄基酰胺；乙酸壬酯；壬醇；辛酸壬酯；异戊酸壬酯；肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.))；肉豆蔻油；橡木片提取物(白栎(Quercus Alba L.))；橡苔纯化物(扁枝衣属(Evernia Spp.))；γ-辛内酯；辛醛；辛醛二甲基缩醛；辛酸；1-辛醇；2-辛醇；2-辛酮；3-辛酮；3-(羟甲基)-2-庚酮；1-辛烯-3-醇；乙酸辛酯；丁酸辛酯；异丁酸辛酯；甲酸辛酯；庚酸辛酯；辛酸辛酯；苯基乙酸辛酯；丙酸辛酯；异戊酸辛酯；油酸；乳香油(乳香属(Boswellia Spp.))；洋葱油(洋葱(Allium Cepa L.))；洋葱片；洋葱粉；洋葱提取物；橙子化纯化物；橙子花(酸橙)；橙子叶纯化物(酸橙)；蒸馏橙子油(甜橙(Citrus Sinensis(L.)Osbeck))；无萜橙子油(甜橙)；苦橙皮油(酸橙)；甜橙皮提取物(甜橙)；甜橙皮油(甜橙)；无萜甜橙皮油(甜橙)；牛至(过江藤属(Lippia Spp.))；牛至油(提取物)(头状百里香(Thymus Capitatus L.Hoffmanns&Link))；鸢尾草凝结物液体油(香根鸢尾(Iris Florentina L.))；鸢尾草根提取物(香根鸢尾(Iris Florentina L.))；玫瑰草油(玫瑰草(Cymbopogon Martini(Roxb.)Stapf))；棕榈酸；红辣椒(辣椒(Capsicum Annuum L.))；红辣椒油树脂(辣椒)；荷兰芹(欧芹(Petroselinum

Crispum(Miller)Nyman-P.Sativum Hoffm.))；荷兰芹油；荷兰芹油树脂(欧芹属(Petroselinum Spp.))；欧防风(欧防风(Pastinaca Sativa))；脱水欧防风；欧防风提取物；广藿香油；薄荷油(唇萼薄荷(Mentha Pulegium L.))；ω-十五内酯；2,3-戊二酮；2-戊酮；4-戊烯酸；黑胡椒(胡椒(Piper Nigrum L.))；黑胡椒油(胡椒)；黑胡椒油树脂(胡椒)；胡椒薄荷叶(辣薄荷(Mentha Piperita L.))；胡椒薄荷油；辣椒(辣椒(Capsicum Frutescens L.(Capsicum Annuum L.)))；红辣椒(辣椒)；青椒(辣椒)；橙色甜椒(辣椒)；黄椒(辣椒)；白胡椒(胡椒(Piper Nigrum L.))；白胡椒油(胡椒)；白胡椒油树脂(胡椒)；橙叶；柠檬油(柠檬(Citrus Limon L.Burm.F))；橘油(Petitgrain Mandarin Oil)(柑橘(Citrus Reticulata Blanco Var.Mandarin))；巴拉圭橘油(Petitgrain Paraguay Oil)；α-水芹烯；乙酸苯乙基酯；苯乙醇；邻氨基苯甲酸苯乙基酯；苯甲酸苯乙基酯；丁酸苯乙基酯；异丁酸苯乙基酯；肉桂酸苯乙基酯；甲酸苯乙基酯；2-糠酸苯乙基酯；苯基乙酸苯乙基酯；丙酸苯乙基酯；水杨酸苯乙基酯；千里酸苯乙基酯；惕各酸苯乙基酯；异戊酸苯乙基酯；苯氧基乙酸；2-苯氧基乙基异丁酸酯；苯乙醛；苯乙醛2,3-丁二醇缩醛；苯乙醛二甲基缩醛；苯乙醛甘油基缩醛；苯乙酸；4-苯基-2-丁醇；4-苯基-3-丁烯-2-醇；4-苯基-3-丁烯-2-酮；4-苯基-2-丁基乙酸酯；1-苯基-3-甲基-3-戊醇；1-苯基-1-丙醇；3-苯基-1-丙醇；2-苯基丙醛；3-苯基丙醛；2-苯基丙醛二甲基缩醛；3-苯基丙酸；3-苯丙基乙酸酯；2-苯丙基丁酸酯；2-苯丙基异丁酸酯；3-苯丙基异丁酸酯；3-苯丙基肉桂酸酯；3-苯丙基甲酸酯；3-苯丙基己酸酯；3-苯丙基丙酸酯；2-(3-苯丙基)四氢呋喃；3-苯丙基异戊酸酯；磷酸；众香子叶油；α-蒎烯；β-蒎烯；矮松针油(欧洲山松(Pinus Mugo Turra Var.Pumilio(Haenke)Zenari))；松针油(冷杉属(Abies Spp.))；欧洲赤松油(欧洲赤松(Pinus Sylvestris L.))；松焦油(长叶松(Pinus Palustris Mill.)和其他的松属(Pinus Spp.))；哌啶；胡椒碱；D-胡椒酮；胡椒醛；乙酸胡椒基酯；异丁酸胡椒基酯；梅笠草叶提取物(伞形梅笠草(Chimaphila Umbellata Nutt.))；聚山梨醇酯20；聚山梨醇酯60；聚山梨醇酯80；石榴皮提取物(石榴(Punica Granatum L.))；罂粟籽(罂粟(Papaver Somniferum L.))；乙酸钾；山梨酸钾；丙烯基乙基愈创木酚；丙醛；丙酸；乙酸丙酯；乙酸异丙酯；对异丙基苯乙酮；丙醇；异丙醇；对丙基茴香醚；苯甲酸丙酯；苯甲酸异丙酯；对异丙基苄醇；丁酸丙酯；丁酸异丙酯；异丁酸丙酯；异丁酸异丙酯；肉桂酸丙酯；肉桂酸异丙酯；丙二醇；丙二醇海藻酸酯；丙二醇硬脂酸酯；甲酸丙酯；甲酸异丙酯；2-呋喃丙烯酸丙酯；2-糠酸丙酯；没食子酸丙酯；庚酸丙酯；己酸丙酯；己酸异丙酯；对羟基苯甲酸丙酯；3-亚丙基苯酞；α-丙基苯乙醇；对异丙基苯乙醛；苯基乙酸丙酯；苯基乙酸异丙酯；3-(对异丙基苯基)丙醛；丙酸丙酯；丙酸异丙酯；异戊酸丙酯；异戊酸异丙酯；异胡薄荷醇；胡薄荷酮；异胡薄荷酮；乙酸异胡薄荷酯；吡啶；木蜡酸；木蜡酸提取物；丙酮醛；丙酮酸；苦木提取物(牙买加苦木(Picrasma Excelsa(Sw.)Planch).-苏林南苦木(Quassia Amara L.))；白坚木皮提取物；皂树(皂树(Quillaja Saponaria Molina))；榅桲籽提取物(榅桲属(Cydonia Spp.))；重硫酸奎宁；盐酸奎宁；硫酸奎宁；异喹啉；娜檀根提取物(刺球果属(Krameria Spp.))；玫瑰醇；乙酸玫瑰基酯；丁酸玫瑰基酯；异丁酸玫瑰基酯；甲酸玫瑰基酯；苯基乙酸玫瑰基酯；丙酸玫瑰基酯；异戊酸玫瑰基酯；玫瑰纯化物(蔷薇属(Rosa Spp.))；玫瑰油(突厥蔷薇(Rosa Damascena Mill.))；玫瑰果提取物(蔷薇属(Rosa Spp.))；迷迭香(迷迭香(Rosemarinus Officinalis L.))；迷迭香油(迷迭香)；浓玫瑰水(百叶蔷薇(Rosa Centifolia L.))；芸香(芸香(Ruta Graveolens L.))；芸

香油(芸香(Ruta Graveolens L.));朗姆醚;糖精钠盐;藏红花(番红花(Crocus Sativus L.));藏红花提取物(番红花);鼠尾草(药用鼠尾草(Salvia Officinalis L.));鼠尾草油(药用鼠尾草);鼠尾草油树脂(药用鼠尾草);西班牙鼠尾草油(薰衣草叶鼠尾草(Salvia Lavandulaefolia Vahl.));水杨醛;黄檀油(檀香(Santalum Album L.));檀香醇(α和β);乙酸檀香基酯;苯基乙酸檀香基酯;菝葜提取物(菝葜属(Smilax Spp.));黄樟树皮提取物(不含黄樟素)(北美檫树(Sassafras Albidum(Nutt.)Nees));黄樟叶(不含黄樟素)(北美檫树);夏香薄荷(夏香薄荷(Satureja Hortensis L.));夏香薄荷油(夏香薄荷);夏香薄荷油树脂(夏香薄荷);冬香薄荷(冬香薄荷(Satureja Montana L.));冬香薄荷油(冬香薄荷);冬香薄荷油树脂(冬香薄荷);柔毛肖乳香油(柔毛肖乳香(Schinus Molle L.));粪臭素;黑刺李浆果(黑刺李(Prunus Spinosa L.));黑刺李浆果提取物(黑刺李);黑刺李浆果提取物固体(黑刺李);加拿大蛇根草油(加拿大细辛(Asarum Canadense L.));乙酸钠;苯甲酸钠;柠檬酸钠;六偏磷酸钠;失水山梨糖醇单硬脂酸酯;D-山梨糖醇;酸奶油;酸奶油固体;绿薄荷(留兰香(Mentha Spicata L.));绿薄荷提取物(留兰香(Mentha Spicata L.));绿薄荷油(留兰香);穗花熏衣草油(熏衣草属(Lavandula Spp.));云杉油(铁杉属(Tsuga Spp.)和云杉属(Picea Spp.));硬脂酸;苏合香(枫香属(Liquidambar Spp.));苏合香提取物(枫香属);蔗糖八乙酸酯;二氧化硫;万寿菊油(万寿菊(Tagetes Erecta L.;T.Patula L.;或T.Glandulifera Schrank));橘子油(柑橘(Citrus Reticulata Blanco));鞣酸(栎属[L5](Quercus Spp.));龙嵩(龙蒿(Artemisia Dracunculus L.));酒石酸(D-,L-,Dl-,内消旋-);α-松油醇;异松油烯;乙酸松油基酯(异构体混合物);β-松油基邻氨基苯甲酸酯;丁酸松油基酯;异丁酸松油基酯;肉桂酸松油基酯;甲酸松油基酯;丙酸松油基酯;异戊酸松油基酯;乙酸四氢糠基酯;四氢糠醇;丁酸四氢糠基酯;丙酸四氢糠基酯;3,4,5,6-四氢假紫罗酮;四氢沉香醇;四甲基乙基环己烯酮(异构体的混合物);2-噻吩基硫醇;百里香(百里香(Thymus Vulgaris L.));百里香油(百里香);白百里香油(百里香);百里香酚;甲苯甲醛甘油基缩醛(混合的邻-、间-、对-);甲苯甲醛(混合的邻、间、对);妥卢香脂提取物(南美槐属(Myroxylon Spp.));妥卢香脂胶(南美槐属);对甲苯基乙醛;邻甲苯基乙酸酯;对甲苯基乙酸酯;4-(对甲苯基)-2-丁酮;对甲苯基异丁酸酯;对甲苯基月桂酸酯;对甲苯基苯基乙酸酯;对甲苯基苯基乙酸酯;2-(对甲苯基)丙醛;黄芪胶(黄耆属(Astragalus Spp.));乙酰柠檬酸三丁酯;磷酸三钙;2-十三碳烯醛;柠檬酸三乙酯;晚香玉油(晚香玉(Polianthes Tuberosa L.));姜黄(姜黄(Curcuma Longa L.));姜黄提取物(姜黄);姜黄油树脂(姜黄);松节油胶(松属(Pinus Spp.));蒸馏的松节油蒸气[L6](松属(Pinus Spp.));2,3-十一碳二酮;γ-十一内酯;十一醛;2-十一烷酮;9-十一碳烯醛;10-十一碳烯醛;10-十一碳烯-1-基乙酸酯;十一烷醇;戊醛;缬草根提取物(缬草(Valeriana Officinalis L.));缬草根油(缬草);缬草酸;异戊酸;γ-戊内酯;香草(香荚兰属(Vanilla Spp.));香草提取物(香荚兰属);香草油树脂(香荚兰属);香草醛;香草醛乙酸酯;藜芦醛;紫罗兰叶纯化物(香堇菜(Viola Odorata L.));胡桃壳提取物(胡桃属(Juglans Spp.));冬青提取物(平铺白珠树(Gaultheria Procumbens L.));冬青油(平铺白珠树);苦艾(中亚苦蒿(Artemisia Absinthium L.));苦艾提取物(中亚苦蒿);苦艾油(中亚苦蒿);蓍草草药(蓍(Achillea Millefolium L.));巴拉圭茶流体提取物(北美圣草(Eriodictyon Californicum(Hook And Am)Torr));依兰树油(依兰(Cananga Odorata Hook.F.And Thomas));短叶丝兰(小叶

丝兰(Yucca Brevifolia Engelm.))；莫哈弗丝兰提取物(丝兰属(Yucca Spp.))；莪术(莪术(Curcuma Zedoaria(Berg.)Rosc.))；莪术皮提取物(莪术(Curcuma Zedoaria(Berg.)Rosc.))；姜酮；乙醛丁基苯乙基缩醛；乙酰基吡嗪；烯丙基甲基二硫醚；2-苯并呋喃甲醛；联苯；丁胺；仲丁基乙基醚；2-异丁基-3-甲氧基吡嗪；2-异丁基-3-甲基吡嗪；2-异丁基噻唑；2-反,4-反-癸二烯醛；2,3-二乙基吡嗪；2,6-二甲氧基苯酚；3,4-二甲氧基-1-乙烯基苯；对-α-二甲基苄醇；2,6-二甲基-4-庚醇；2,6-二甲基-10-亚甲基-2,6,11-十二碳三烯醛；3,7-二甲基-6-辛烯酸；2,4-二甲基-2-戊烯酸；对,α-二甲基苯乙烯；2,4-二甲基-5-乙烯基噻唑；2,2'-(二硫代二亚甲基)-二呋喃；1-乙基-2-乙酰基吡咯；反-2,顺-4-癸二烯酸乙酯；2-乙基-3,(5或6)-二甲基吡嗪；3-乙基-2,6-二甲基吡嗪；2-乙基-1-己醇；3-乙基-2-羟基-2-环戊烯-1-酮；5-乙基-3-羟基-4-甲基-2(5h)-呋喃酮；2-乙基-5-甲基吡嗪；2-乙基-3-甲基吡嗪；对乙基苯酚；(对甲苯氧基)乙酸乙酯；2-呋喃甲硫醇甲酸酯；糠基甲基醚；糠基甲基硫醚；糠基异丙基硫醚；硫代乙酸糠基酯；2-呋喃基甲基酮；(2e,4e)-庚二烯醛；反-2-庚烯醛；诺卡酮；δ-己内酯；3,4-己二酮；反-2-己烯酸；3-己烯酸；顺-3-己烯-1-基乙酸酯；异丁酸己酯；1-羟基-2-丁酮；4-羟基-2,5-二甲基-3(2h)-呋喃酮；γ-紫罗酮；对薄荷烷-2-酮；对薄荷-8-硫醇-3-酮；对薄荷-1-烯-9-醛；对薄荷-1-烯-3-醇；2-巯基丙酸；邻甲氧基肉桂醛；对甲氧基-α-甲基肉桂醛；2,5或6-甲氧基-3-甲基吡嗪(异构体的混合物)；1-甲基-2-乙酰基吡咯；甲基化二氧化硅；4-甲基联苯；3-甲基巴豆酸；2-甲基-3-呋喃硫醇；2-甲基-3-,5或6-(糠基硫代)吡嗪(异构体的混合物)；5-甲基-2,3-己二酮；2-甲基己酸；2-甲基-5-甲氧基噻唑；1-甲基萘；2-甲基-2-戊烯醛；2-甲基-2-戊烯酸；3-甲基-2-(2-戊烯基)-2-环戊烯-1-酮；α-甲基苯乙基丁酸酯；甲基苯乙基醚；5-甲基-2-苯基-2-己烯醛；4-甲基-2-苯基-2-戊烯醛；甲基丙基二硫醚；甲基2-吡咯基酮；5-甲基喹喔啉；4-甲基-5-噻唑乙醇；4-甲基-5-噻唑乙醇乙酸酯；2-甲基硫代乙醛；1-(甲基硫代)-2-丁酮；(甲基硫代)甲基吡嗪(异构体的混合物)；5-甲基-2-噻吩甲醛；邻-(甲基硫代)-苯酚；2-甲基-5-乙烯基吡嗪(Re-Gras)；2,4-壬二烯醛；2-壬烯醛；δ-辛内酯；2-辛烯醛；石蜡；2,4-戊二烯醛；2-戊烯醛；异戊胺；苯乙胺；己酸苯乙基酯；辛酸苯乙基酯；苯酚；2-苯基-2-丁烯醛；二硫化苯；1-苯基-1,2-丙二酮；丙烯基丙基二硫醚；丙基二硫醚；愒各酸异丙酯；吡嗪乙硫醇；吡嗪基甲基硫醚；2-吡啶甲硫醇；4,5,6,7-四氢-3,6-二甲基苯并呋喃；四氢-4-甲基-2-(2-甲基丙烯-1-基)吡喃；2,3,5,6-四甲基吡嗪；2,2'-(硫代二亚甲基)-二呋喃；4-侧柏醇；邻甲苯硫醇；三甲胺；对-α,α-三甲基苄醇；1-(2,6,6-三甲基-1-环己烯-1-基)-2-丁烯-1-酮；2,3,5-三甲基吡嗪；十一烷酸；2-十一烷醇；10-十一碳烯酸；2,6-二甲苯酚；2-乙酰基-3-乙基吡嗪；2-乙酰基吡啶；β-丙氨酸；烯丙基甲基三硫醚；阿拉伯半乳聚糖；L-阿拉伯糖；苯并噻唑；双(2-甲基-3-呋喃基)二硫醚；双(2-甲基-3-呋喃基)四硫醚；2-仲丁基环己酮；环戊硫醇；L-半胱氨酸；4-癸烯醛；二烯丙基三硫醚；4,5-二氢-3(2h)噻吩酮；2,4-二甲基-5-乙酰基噻唑；3,4-二甲基-1,2-环戊二酮；3,5-二甲基-1,2-环戊二酮；螺(2,4-二硫杂-1-甲基-8-氧杂二环(3.3.0)辛烷-3,3'-(1'-氧杂-2'-甲基)-环戊烷)；2,3-二甲基吡嗪；2,5-二甲基吡嗪；2,6-二甲基吡嗪；4,5-二甲基噻唑；二甲基三硫醚；二丙基三硫醚；琥珀酸二钠；2,4-二氧代己酸乙酯；2-巯基丙酸乙酯；2-乙基(或甲基)-(3,5和6)-甲氧基吡嗪；2-乙基吡嗪；硫代乙酸乙酯；3-甲基丁酸糠基酯；N-糠基吡咯；L-谷氨酸；三丙酸甘油酯；甘氨酸；2-庚醇；4-庚烯醛；3-己酮；4-羟基丁酸内酯；3-(羟甲基)-2-辛酮；4-羟基-3-戊烯酸内酯；5-羟基十一烷酸内酯；D,L-

异亮氨酸;异丙烯基吡嗪;L-亮氨酸;3-巯基-2-丁酮;2-巯基甲基吡嗪;3-巯基-2-戊酮;D,L-蛋氨酸;甲氧基吡嗪;2-甲基-1-丁烷硫醇;3-甲基-2-丁烷硫醇;1-甲基-2,3-环己二酮;5h-5-甲基-6,7-二氢环戊(B)吡嗪;3-(5-甲基-2-呋喃基)-丁醛;甲基丙基三硫醚;2-甲基吡嗪;硫代丁酸甲酯;2-硫代糠酸甲酯;3-甲基硫代丙基异硫氰酸酯;4-甲基-5-乙烯基噻唑;2-萘硫醇;2-壬醇;2-戊醇;2-戊基呋喃;3-苯基-4-戊烯醛;L-脯氨酸;肉桂酸四氢糠基酯;5,6,7,8-四氢喹喔啉;硫胺盐酸盐;2-噻吩基二硫醚;3,5,5-三甲基-1-己醇;2,4,5-三甲基噻唑;丙酮;2-乙酰基-3,5(和6)-二甲基吡嗪;2-乙酰基噻唑;硫代丙酸烯丙基酯;反-2-甲基-2-丁烯酸苄酯;没药烯;丁-3-酮-2-基丁酸酯;3-亚丁基苯酞;3-N-丁基苯酞;二(丁-3-酮-1-基)硫醚;2,3-二乙基-5-甲基吡嗪;二糠基醚;5,7-二氢-2-甲基噻吩并(3,4-D)嘧啶;3,7-二甲基辛-2,6-二烯基2-乙基丁酸酯;2-乙氧基噻唑;2-乙基-3-苯基丙酸乙酯;3-己烯酸乙酯;3-甲基硫代丙酸乙酯;顺-4-辛烯酸乙酯;2-乙基苯硫酚;丙酸糠基酯;硫代丙酸糠基酯;庚酸;4-庚烯醛二乙基缩醛;3-庚基二氢-5-甲基-2(3h)-呋喃酮;3-己醇;4-己烯-3-酮;顺-3-己烯基甲酸酯;N-己基2-丁烯酸酯;6-羟基-3,7-二甲基辛酸内酯;羟基壬酸;δ-内酯;2-酮-4-丁烷硫醇;2-甲氧基-3(5和6)-异丙基吡嗪;2-甲基丁基2-甲基丁酸酯;3-甲基-2-环己烯-1-酮;3,7-二甲基-6-辛烯酸甲酯;甲基糠基二硫醚;6-甲基-3,5-庚二烯-2-酮;3-己烯酸甲酯;5-甲基-5-己烯-2-酮;2-甲基-5-(甲基硫代)呋喃;顺-4-辛烯酸甲酯;4-甲基-3-戊烯-2-酮;2-甲基丙基3-甲基丁酸酯;2-(2-甲基丙基)吡啶;3-(2-甲基丙基)吡啶;2-(1-甲基丙基)噻唑;2-甲基四氢呋喃-3-酮;3-(甲基硫代)丁醛;4-(甲基硫代)-2-丁酮;4-(甲基硫代)-4-甲基-2-戊酮;壬-2-反-6-顺-二烯醛;2,6-壬二烯醛二乙基缩醛;反-2-壬烯-1-醇;9,12-十八碳二烯酸(48%)和9,12,15-十八碳三烯酸(52%);3-氧代丁醛二甲基缩醛;1-戊烯-3-酮;2-戊基吡啶;苯乙醛二异丁基缩醛;硫代乙酸丙酯;吡咯;对甲苯基3-甲基丁酸酯;2-十三烷酮;2,6,6-三甲基环己-1,3-二烯基甲醛;1,3,3-三甲基-2-降冰片烷基乙酸酯;3-乙酰基-2,5-二甲基呋喃;2-丁基-2-丁烯醛;N-丁基2-甲基丁酸酯;3-乙基吡啶;2-甲酰基-6,6-二甲基二环(3.1.1)庚-2-烯;α-糠基辛酸酯;α-糠基戊酸酯;三苯甲酸甘油酯;2-庚烯-4-酮;3-庚烯-2-酮;2-庚基呋喃;顺-3-己烯基丁酸酯;顺-3-己烯基己酸酯;辣椒素;2-羟甲基-6,6-二甲基二环(3.1.1)庚-2-烯基甲酸酯;2-异丙基-5-甲基-2-己烯醛;2-甲基-2-丁烯醛;二氢茉莉酮酸甲酯;5-甲基-3-己烯-2-酮;茉莉酮酸甲酯;亚油酸甲酯(48%)亚麻酸甲酯(52%)混合物;4-(甲基硫代)丁酸甲酯;2-甲基戊醛;4-(甲基硫代)丁醛;3-(甲基硫代)丙醇;3-辛烯-2-酮;3-戊烯-2-酮;戊基2-呋喃基酮;丙二醇二苯甲酸酯;1-(2,6,6-三甲基环己-1,3-二烯基)-2-丁烯-1-酮;2,6,6-三甲基环己-2-烯-1,4-二酮;2,4-十一碳二烯醛;2-十一碳烯醛;3-乙酰基吡啶;环十七碳-9-烯-1-酮;1,1-二甲氧基乙烷;2,4-二甲基苯甲醛;3-羟基丁酸乙酯;反,反-2,4-己二烯醛;4-己烯-1-醇;2-丁烯酸异丁酯;2-甲氧基-3-(1-甲基丙基)吡嗪;3-甲基-1-环十五烷酮;1-甲基-1-环戊烯-3-酮;1-甲基-3-甲氧基-4-异丙基苯;3-甲基戊酸;3-(甲基硫代)-1-己醇;桃金娘烯醇;3-壬酮;2,2,4-三甲基-1,3-氧杂环戊烷;2,6,10-三甲基-2,6,10-十五碳三烯-14-酮;朱栾倍半萜;D,L-缬氨酸;D1-(3-氨基-3-羧丙基)二甲基氯化锍;脱氢二氢紫罗醇;脱氢二氢紫罗酮;二环己基二硫醚;1,4-二甲基-4-乙酰基-1-环己烯;2,5-二甲基-2,5-二羟基-1,4-二噻烷;2,5-二甲基-3-呋喃硫醇;异丁酸十二烷基酯;3-乙基-2-羟基-4-甲基环戊-2-烯-1-酮;5-乙基-2-羟基-3-甲基环戊-2-烯-1-酮;N-乙基-2-异丙基-5-甲基环己烷甲酰胺;2-甲基-3-戊

烯酸乙酯;苯基乙酸己酯;2-羟基-2-环己烯-1-酮;2-羟基-3,5,5-三甲基-2-环己烯酮;D,L-异薄荷酮;2-异丙基苯酚;异丁酸麦芽酚酯;4-甲基戊酸;2-甲基-3-戊烯酸;顺-6-壬烯-1-醇;2-反-6-反-辛二烯醛;顺-3-辛烯-1-醇;2-苯基-3-乙酯基呋喃;苯丙酮;1,5,5,9-四甲基-13-氧杂三环(8.3.0.0(4,9))十三烷;硫代香叶醇;2,2,6-三甲基环己酮;2,6,6-三甲基-1-环己烯-1-乙醛;三硫代丙酮;双(2,5-二甲基-3-呋喃基)二硫醚;2,3-丁烷二硫醇;1-丁烷硫醇;小烛树蜡(来自小烛树(Euphorbia Cerifera)的茎和枝干的蜡);邻甲酚;S-(2,5-二甲基-3-呋喃基)硫代-2-糠酸酯;2,5-二甲基-3-硫代异戊酰基呋喃;2,8-二噻农-4-烯-4-甲醛;1,2-乙二硫醇;邻-(乙氧基甲基)苯酚;反-2-丁烯酸乙酯;乙基麦芽酚;2-甲基戊酸乙酯;2-甲基-4-戊烯酸乙酯;十八烷酸乙酯;2-乙基-1,3,3-三甲基-2-降冰片烷醇;十一烷酸乙酯;反-3-庚烯基乙酸酯;反-3-庚烯基2-甲基丙酸酯;1,6-己二硫醇;顺-4-己烯醛;3-己烯基2-甲基丁酸酯;3-己烯基3-甲基丁酸酯;2-甲基丁酸己酯;异戊酸己酯;苯基乙酸沉香基酯;2-巯基-3-丁醇;2,3或10-巯基蒎烷;甲基苄基二硫醚;3-甲基丁基2-甲基丁酸酯;2-甲基丁基3-甲基丁酸酯;3-甲基丁基2-甲基丙酸酯;3-羟基己酸甲酯;α-甲基-β-羟丙基α-甲基-β-巯基丙基硫醚;4-甲基-2-戊烯醛;2-甲基-4-戊烯酸;2-甲基四氢噻吩-3-酮;1,9-壬二硫醇;1,8-辛二硫醇;1-辛烯-3-酮;反-2-辛烯-1-基乙酸酯;反-2-辛烯-1-基丁酸酯;2-糠酸辛酯;2-苯基-4-戊烯醛;1,2-丙烷二硫醇;丙硫醇;邻丙基苯酚;吡咯烷;3,5,5-三甲基己醛;2,4,5-三甲基-δ-3-噁唑啉;2-乙酰氧基-3-丁酮;1,2-丁烷二硫醇;1,3-丁烷二硫醇;间甲酚;环己烷甲酸;3-癸烯-2-酮;二烯丙基多硫醚;1,2-二((1'-乙氧基)乙氧基)丙烷;2,3-二甲基苯并呋喃;二甲基二硫醚;2,6-二甲基-4-庚酮;2,6-二甲基-3-((2-甲基-3-呋喃基)硫代)-4-庚酮;3,7-二甲基-1,3,6-辛三烯;2,6-二甲基吡啶;3,5-二甲基-1,2,4-三硫杂环戊烷;6,10-二甲基-5,9-十一碳二烯-2-酮;巴西酸亚乙酯;环己烷甲酸乙酯;3-羟基己酸乙酯;5-乙基-2-甲基吡啶;3-庚醇;2-羟基苯乙酮;6-羟基二氢茶螺烷;3-羟基-2-戊酮;乙酰乙酸异戊酯;异茉莉酮;异佛尔酮;5-异丙基-2-甲基吡嗪;2-异丙基-4-甲基噻唑;肉豆蔻酸异丙酯;对薄荷-1,8-二烯-7-醛;对薄荷-1,3-二烯;对薄荷-1,4-二烯;对薄荷-1,4(8)-二烯-3-酮;对薄荷-1,8-二烯-7-基乙酸酯;对薄荷烷-2-醇;对薄荷-3-烯-1-醇;对薄荷-8-烯-1-醇;对薄荷-8-烯-2-酮;1-对薄荷烯-9-基乙酸酯;对甲氧基肉桂醛;环己烷甲酸甲酯;2-甲基-3,5或6-乙氧基吡嗪;3-((2-甲基-3-呋喃基)硫代)-4-庚酮;4-((2-甲基-3-呋喃基)硫代)-5-壬酮;5-甲基己酸;甲基2-甲基-3-呋喃基二硫醚;4-甲基壬酸;4-甲基辛酸;甲基1-丙烯基二硫醚;3-甲基-5-丙基-2-环己烯-1-酮;2-甲基-4-丙基-1,3-氧硫杂环己烷;1,4-壬二醇二乙酸酯;顺-6-壬烯醛;3-辛醇;1-辛烯-3-基乙酸酯;3-辛基乙酸酯;1-戊烯-3-醇;L-苯基丙氨酸;2-苯基-3-(2-呋喃基)丙-2-烯醛;2(10)-蒎烯-3-醇;1,3-丙烷二硫醇;间苯二酚;δ-十四内酯;可可碱;(2,2,3-三甲基环戊-3-烯-1-基)乙醛;1,2,3-三((1'-乙氧基)乙氧基)丙烷;马鞭草烯醇;2,5-二甲苯酚;3,4-二甲苯酚;苄基甲基硫醚;2-甲氧基-4-丙基苯酚;2-甲基-反-2-丁烯酸;4-(甲基硫代)丁醇;2-(甲基硫代)甲基-2-丁烯醛;3-辛烯-2-醇;2-辛烯-4-酮;2-甲基丁酸辛酯;3-癸醇;D-木糖;丙基2-甲基-3-呋喃基二硫醚;1-己烯-3-醇;2-乙酰基-5-甲基呋喃;ε-十二内酯;2-丙酰基噻唑;1-辛烯-3-基丁酸酯;ε-癸内酯;2-丙酰基吡咯;噻唑;苯硫酚;苄基二硫醚;5-苯基戊醇;2-(2-丁基)-4,5-二甲基-3-噻唑啉;4,5-二甲基-2-乙基-3-噻唑啉;4,5-二甲基-2-异丁基-3-噻唑啉;δ-1-(2,6,6-三甲基-3-环己烯-1-基)-2-丁烯-1-酮;2-乙基-4-羟基-5-甲基-3(2h)-呋喃酮;α-

紫罗醇;β-紫罗醇;二氢-β-紫罗酮;二氢-β-紫罗醇;二氢-α-紫罗酮;2-甲基-4-苯基-2-丁醇;4-甲基-2-戊基-1,3-二氧戊环;环己基甲基吡嗪;2-甲基丁酸苯乙基酯;3-己烯基苯基乙酸酯;4,5-二甲基-3-羟基-2,5-二氢呋喃-2-酮;4-羟基-5-甲基-3(2h)-呋喃酮;2-甲基-3-硫代乙酰氧基-4,5-二氢呋喃;2-反-6-顺-十二碳二烯醛;2-反-4-顺-7-顺-十三碳三烯醛;2,6,6-三甲基-1和2-环己烯-1-甲醛;对甲基肉桂醛;反-2-癸烯酸乙酯;反-4-癸烯酸乙酯;反-2-辛烯酸乙酯;2-甲基丁基乙酸酯;顺-5-异丙烯基-顺-2-甲基环戊烷-1-甲醛;3-甲基-2-丁烯醛;3-甲基-2-丁烯-1-醇;2,4-癸二烯酸丙酯;对丙基苯酚;水杨酸丁酯;6-乙酰氧基二氢茶螺烷;4-(对乙酰氧基苯基)-2-丁酮;4-乙酰基-6-叔丁基-1,1-二甲基二氢化茚;4-乙酰基-2-甲基嘧啶;4-烯丙基-2,6-二甲氧基苯酚;L-天冬氨酸;乙酸龙脑烯酯;1,4-桉树脑;α-1-(2,6,6-三甲基-2-环己烯-1-基)-2-丁烯-1-酮;9-癸烯酸;橙花醇氧化物;二羟基苯乙酮;2,6-二甲基-6-庚烯-1-醇;2,5-二甲基-4-甲氧基-3(2h)-呋喃酮;2,2-二甲基-5-(1-甲基丙烯-1-基)四氢呋喃;2,6-二甲基苯硫酚;二苯醚;5-鸟苷酸二钠;5-肌苷酸二钠;反,反-2,4-十二碳二烯醛;4-乙基-2,6-二甲氧基苯酚;2-乙基-4,5-二甲基噁唑;2-乙基呋喃;3-(糠基硫代)丙酸乙酯;反-2-己烯酸乙酯;1-乙基己基愒各酸酯;3-巯基丙酸乙酯;2-甲基-3,4-戊二烯酸乙酯;3-甲基戊酸乙酯;2-乙基-4-甲基噻唑;4-(甲基硫代)丁酸乙酯;顺-4,7-辛二烯酸乙酯;3-氧代己酸乙酯;L-谷氨酰胺;5-羟基癸酸甘油酯;5-羟基十二烷酸甘油酯;乙酸愈创木基酯;顺-3-己烯基苯甲酸酯;顺-3-己烯基顺-3-己烯酸酯;顺-3-己烯基乳酸酯;苯甲酸己酯;反-2-己烯酸己酯;2-甲基-3和4-戊烯酸己酯;L-组氨酸;氢醌单乙基醚;5-羟基-2,4-癸二烯酸δ-内酯;2-羟基-4-甲基苯甲醛;异丁子香基苄基醚;2-甲基丁酸异丙酯;1-对薄荷烯-8-硫醇;甲基1-乙酰氧基环己基酮;乙酸甲基苄酯(混合的邻、间、对);3-甲基-2-丁醇;4-甲基-2,6-二甲氧基苯酚;2-甲基-1,3-二硫杂环戊烷;2-羟基-4-甲基戊酸甲酯;2-甲基戊酸甲酯;2-甲基硫代丁酸甲酯;烟酸甲酯;3-壬烯酸甲酯;2-甲基-2-辛烯醛;反-2-辛烯酸甲酯;2-氧代-3-甲基戊酸甲酯;山梨酸甲酯;7-甲基-4,4a,5,6-四氢-2(3h)-萘酮;4-甲基噻唑;2-(甲基硫代甲基)-3-苯基丙烯醛;3-甲基-1,2,4-三噻烷;β-萘基异丁基醚;顺-2-壬烯-1-醇;反,反-2,4-辛二烯醛;顺-5-辛烯-1-醇;2-氧代丁酸;2-十五烷酮;2-戊基-1-丁烯-3-酮;D,L-苯基丙氨酸;1-苯基-3或5-丙基吡唑;4-丙烯基-2,6-二甲氧基苯酚;4-丙基-2,6-二甲氧基苯酚;L-鼠李糖;1,2,5,6-四氢枯茗酸;索马甜;对甲苯基辛酸酯;邻甲苯基水杨酸酯;2,2,6-三甲基-6-乙烯基四氢吡喃;L-酪氨酸;香草醇;亚香草基丙酮;对乙烯基苯酚;苯基乙酸茴香酯;α-龙脑烯醇;5-和6-癸烯酸;2,5-二乙基四氢呋喃;5-羟基-2-癸烯酸δ-内酯;5-羟基-7-癸烯酸δ-内酯;沉香醇氧化物;厚壳桂皮油(马索厚壳桂(Cryptocarya Massoio));L-薄荷基乳酸酯;顺-5-辛烯醛;桂花纯化物(桂花(Osmanthus Fragrans Lour.));2-(3-苯丙基)吡啶;2-(1'-乙氧基)乙氧基丙酸钾;邻甲苯基异丁酸酯;香草醛异丁酸酯;脱氢薄荷呋喃内酯;4-乙基苯甲醛;甲基-对甲苯基缩水甘油酸乙酯;5-羟基-8-十一碳烯酸δ-内酯;5-异丙烯基-2-甲基-2-乙烯基四氢呋喃;1-(4-甲氧基苯基)-4-甲基-1-戊烯-3-酮;5-甲基-2-庚烯-4-酮;3-甲基-1-戊醇;3-甲基-2-(N-戊基)-2-环戊烯-1-酮;薄荷内酯;乙酸桃金娘烯基酯;2-反-6-反-壬二烯醛;3-氧代癸酸甘油酯;3-氧代十二烷酸甘油酯;3-氧代十六烷酸甘油酯;3-氧代己酸甘油酯;3-氧代辛酸甘油酯;3-氧代十四烷酸甘油酯;2-(4-甲氧基苯氧基)丙酸钠;茶螺烷;乙醛乙基顺-3-己烯基缩醛;二氢诺卡酮;1-乙氧基-3-甲基-2-丁烯;(Z)-3和(E)-2-己烯基丙酸酯;硫化氢;

1,4-十二-6-烯酸内酯;2或4-异丁基-(4或2),6-二甲基二氢-4h-1,3,5-二噻嗪;2或4-异丙基-(4或2),6-二甲基二氢-4h-1,3,5-二噻嗪;莲雾油树脂;3-L-薄荷氧基丙烷-1,2-二醇;4-甲氧基-2-甲基-2-丁烷硫醇;γ-甲基癸内酯;2-甲基-3-四氢呋喃硫醇;甲基硫代2-(乙酰氧基)丙酸酯;3-(甲基硫代)己基乙酸酯;甲基硫代-2-(丙酰氧基)丙酸酯;八氢香豆素;2-戊硫醇;D-核糖;香紫苏内酯;1,3,5-十一碳三烯;香草基丁基醚;4-乙酰氧基-2,5-二甲基-3(2h)呋喃酮;2,4-二羟基苯甲酸;1,2-二甲氧基苯;4-乙基辛酸;乙基香草醛β-D-吡喃葡萄糖苷;5-羟基-2-十二碳烯酸内酯;4-羟基-3-甲基辛酸内酯;2-异丙基-N,2,3-三甲基丁酰胺;L-薄荷醇乙二醇碳酸酯;L-薄荷醇1-和2-丙二醇碳酸酯;L-薄荷酮1,2-甘油缩酮;D,L-薄荷酮1,2-甘油缩酮;顺-和反-薄荷酮-8-硫代乙酸酯;琥珀酸单薄荷基酯;新橙皮苷二氢查耳酮;3-甲氧基-4-羟基肉桂酸钠;牛磺酸;索马甜B-重组体;香草基乙基醚;3-乙酰基巯基己基乙酸酯;2-乙酰基-2-噻唑啉;Dl-丙氨酸;L-精氨酸;1-丁烯-1-基甲基硫醚;δ-3-蒈烯;环紫罗酮;玳玳果皮油;1-癸烯-3-醇;二乙基硫醚;2,5-二羟基-1,4-二噻烷;二异丙基二硫醚;2,4-二甲基茴香醚;2-(3,7-二甲基-2,6-辛二烯基)环戊酮;(E,R)-3,7-二甲基-1,5,7-辛三烯-3-醇;1,4-二噻烷;2,4,7-癸三烯酸乙酯;2-乙基己硫醇;2-(甲基二硫代)丙酸乙酯;2-(甲基硫代)乙酸乙酯;3-(甲基硫代)丁酸乙酯;乙基香草醛异丁酸酯;乙基香草醛丙二醇缩醛;α-金合欢烯;4-[(2-呋喃甲基)硫代]-2-戊酮;(Z)-4-庚烯-1-醇;1-己硫醇;3-羟基-2-氧代丙酸;β-紫罗基乙酸酯;α-异甲基紫罗基乙酸酯;山苍子油;L-赖氨酸;顺-和反-对-1(7),8-薄荷二烯-2-基乙酸酯;3-(L-薄荷氧基)-2-甲基丙烷-1,2-二醇;3-巯基己醇;3-巯基己基乙酸酯;3-巯基己基丁酸酯;3-巯基己基己酸酯;3-巯基-3-甲基-1-丁醇;3-巯基-3-甲基丁基甲酸酯;1-巯基-2-丙酮;S-甲基苯并硫酯;3-甲基丁烷硫醇;(E)-2-(Z)-4-癸二烯酸甲酯;甲基乙基硫醚;甲基乙基三硫醚;S-甲基己烷硫酯;2-(4-甲基-2-羟苯基)丙酸-γ-内酯;S-甲基3-甲基丁烷硫酯;甲基3-甲基-1-丁烯基二硫醚;2-甲基-2-(甲基二硫代)丙醛;S-甲基4-甲基戊烷硫酯;(E)-7-甲基-3-辛烯-2-酮;3-甲基-2-氧代丁酸;3-甲基-2-氧代戊酸;4-甲基-2-氧代戊酸;甲基苯基二硫醚;甲基苯基硫醚;2-甲基-1-丙硫醇;甲基亚磺酰甲烷;S-甲基硫代乙酸酯;3-甲基硫代己醛;双-(甲基硫代)甲烷;丁酸甲基硫代甲基酯;己酸甲基硫代甲基酯;4-(甲基硫代)-2-氧代丁酸;1-甲基硫代-2-丙酮;3-(甲基硫代)丙基乙酸酯;(E)-3-(Z)-6-壬二烯-1-醇;(Z)(Z)-3,6-壬二烯-1-醇;8-罗勒烯基乙酸酯;(E)-2-辛烯-1-醇;(E)-2-辛烯-4-醇;(E)-2-(2-辛烯基)环戊酮;(Z)-5-辛烯基丙酸酯;2-氧代戊二酸;2-氧代-3-苯基丙酸;2-戊基丁酸酯;苯基乙硫醇;硫代乙酸异戊二烯基酯;异戊二烯硫醇;2-丙硫醇;1-吡咯啉;佛手油;二乙酸钠;3-巯基氧代丙酸钠;茶树油;2,3,4-三甲基-3-戊醇;香草醛3-(L-薄荷氧基)丙烷-1,2-二醇缩醛;香草醛丙二醇缩醛;2-氨基苯乙酮;丁酸冰片酯;(E)-2-丁烯酸;环己酮;环戊酮;2,4-癸二烯-1-醇;9-癸烯醛;2-癸烯酸;4-癸烯酸;2,5-二乙基-3-甲基吡嗪;3,5-二乙基-2-甲基吡嗪;6,7-二氢-2,3-二甲基-5h-环戊吡嗪;对叔丁基苯酚;2-乙基-6-甲基吡嗪;(E)-2-庚烯酸;2,4-己二烯酸;(E,E)-,2,4-己二烯-1-醇;3-己烯醛;(Z)-2-己烯-1-醇;顺-3-己烯基邻氨基苯甲酸酯;反-2-己烯基丁酸酯;(E)-2-己烯基甲酸酯;3-己烯基2-己烯酸酯;顺-3-己烯基异丁酸酯;反-2-己烯基异戊酸酯;顺-3-己烯基惕各酸酯;反-2-己烯基丙酸酯;顺-3-己烯基丙酸酯;3-己烯基2-氧代丙酸酯;反-2-己烯基戊酸酯;顺-3-己烯基戊酸酯;5-(顺-3-己烯基)二氢-5-甲基-2(3h)呋喃酮;4-异丙基-2-环己烯酮;2-异丙基吡嗪;2-甲基-3-(1-氧代丙氧基)-4h-吡

喃-4-酮;牧豆树提取物;2-甲氧基苯甲酸;3-甲氧基苯甲酸;4-甲氧基苯甲酸;2-甲基环己酮;3-甲基环己酮;4-甲基环己酮;2-甲基-3-(甲基硫代)呋喃;白玉兰油;2,4-壬二烯-1-醇;(E,Z)-2,6-壬二烯-1-醇乙酸酯;(E,Z)-3,6-壬二烯-1-醇乙酸酯;(E)-2-壬烯酸;3-壬烯-2-酮;(E,E)-2,4-辛二烯-1-醇;(E)-2-辛烯酸;乙酸苯酯;2-苯基苯酚;水杨酸苯酯;丙基吡嗪;3,5,5-三甲基环己醇;2,3,6-三甲基苯酚;2-乙酰基-3-甲基吡嗪;1-氨基-2-丙醇;3-癸酮;顺-4-癸烯基乙酸酯;二异丙基三硫醚;(E)和(Z)-4,8-二甲基-3,7-壬二烯-2-酮;2,5-二甲基-3-氧代-(2h)-呋喃-4-基丁酸酯;顺和反-2,5-二甲基四氢呋喃-3-硫醇;顺和反-2,5-二甲基四氢-3-呋喃基硫代乙酸酯;乙硫酸;S-(2-甲基-3-呋喃基)酯;4-(乙酰基硫代)丁酸乙酯;顺-4-庚烯酸乙酯;5-己烯酸乙酯;(+/-)-乙基3-巯基丁酸酯;5-(甲基硫代)戊酸乙酯;糠基丙基二硫醚;(+/-)-庚-3-基乙酸酯;(+/-)-庚-2-基丁酸酯;(Z)-3-己烯基(E)-2-丁烯酸酯;(E)-2-己烯基己酸酯;4-羟基苯甲醛;2-羟基苯甲酸;4-羟基苯甲酸;4-羟基苄醇;4-羟基-3-甲氧基苯甲酸;3(2)-羟基-5-甲基-2(3)-己酮;异亚戊基异戊胺;乙酸异戊二烯基酯(Isoprenyl Acetate);D,L-薄荷醇(+/-)-丙二醇碳酸酯;赤和苏-3-巯基-2-甲基丁-1-醇;3-巯基-2-甲基戊醛;(+/-)-2-巯基-2-甲基戊-1-醇;3-巯基-2-甲基戊-1-醇(外消旋);4-巯基-4-甲基-2-戊酮;(+/-)-2-甲基-1-丁醇;(+/-)-3-甲基-γ-癸内酯;2-甲基庚-3-酮;(E)-6-甲基-3-庚烯-2-酮;2-甲基-2-丙烯酸甲酯;(甲基硫代)乙酸甲酯;2-(甲基硫代)乙醇;12-甲基十三醛;L-单薄荷基戊二酸酯;(+/-)-壬-3-基乙酸酯;(E,E)-3,5-辛二烯-2-酮;(+/-)-辛-3-基甲酸酯;三聚乙醛;4-戊烯基乙酸酯;2-戊基乙酸酯;紫苏叶油;异硫氰酸苯乙基酯;吡嗪;4-甲氧基苯甲酰氧基乙酸钠;2,4,6-三异丁基-5,6-二氢-4h-1,3,5-二噻嗪;2,4,6-三甲基二氢-4h-1,3,5-二噻嗪;3,7,11-三甲基-2,6,10-十二碳三烯醛;(+/-)-(2,6,6-三甲基-2-羟基亚环己基)乙酸γ-内酯;三硫杂己烷-2,3,5,6-十一烷酮;香草醛赤和苏-丁-2,3-二醇缩醛;乙醛二异戊基缩醛;戊基甲基二硫醚;己酸苄酯;丁基乙基二硫醚;β-环糊精;二乙基三硫醚;(+/-)-3,5-二乙基-1,2,4-三硫杂环戊烷;(+/-)-二氢金合欢醇;二氢薄荷内酯;二羟基丙酮;2,5-二甲基-3-呋喃硫醇乙酸酯;2,5-二甲基噻唑;(Z)-4-十二烯醛;4,5-环氧-(E)-2-癸烯醛;乙基3-乙酰氧基-2-甲基丁酸酯;S-乙基2-乙酰基氨基硫代乙酸酯;乙基甲基二硫醚;乙基丙基二硫醚;乙基丙基三硫醚;邻-乙基S-(2-呋喃基甲基)硫代碳酸酯;愒各酸香叶基酯;葡萄籽提取物;反-4-己烯醛;(E)-2-己烯醛二乙基缩醛;2-己基-4,5-二甲基-1,3-二氧戊环;4-羟基-3,5,-二甲氧基苯甲醛;4-羟基-2,3-二甲基-2,4-壬二烯酸γ内酯;4-羟基-4-甲基-5-己烯酸γ内酯;3-羟基-4-苯基丁-2-酮;对薄荷烷-3,8-二醇;L-薄荷基甲基醚;5-乙酰氧基己酸甲酯;3-[(2-甲基-3-呋喃基)硫代]-2-丁酮;3-甲基-2,4-壬二酮;(+/-)-2-(5-甲基-5-乙烯基-四氢呋喃-2-基)丙醛;9-十八碳烯醛;2,3-辛二酮;(+/-)-1-苯基乙硫醇;4-丙烯基苯酚;2-丙酰基吡咯啉;2-丙酰基-2-噻唑啉;2-丙基吡啶;(Z)-8-十四烯醛;晚香玉内酯;2-十一碳烯-1-醇;(+/-)-1-乙酰氧基-1-乙氧基乙烷;4-乙酰基-2,5-二甲基-3(2h)-呋喃酮;2-乙酰基-3,5-二甲基呋喃;巴豆酸烯丙基酯;烯丙基丙基二硫醚;戊酸烯丙基酯;4-烯丙基苯酚;硫代己酸烯丙基酯;邻茴香醛;N-苯甲酰基邻氨基苯甲酸;侧柏醇;L-乙酸冰片酯;2-丁基呋喃;异硫氰酸丁酯;2-丁酰呋喃;香芹酮-5,6-氧化物;β-石竹烯氧化物;邻氨基苯甲酸香茅基酯;N-环丙基-反-2-顺-6-壬二烯酰胺;反-α-突厥酮;2,4,7-癸三烯醛;2-癸基呋喃;脱氢诺卡酮;甘油单酯和甘油二酯的二乙酰基酒石酸酯;二乙基二硫醚;3,6-二乙基-1,2,4,5-四噻烷与3,5-二乙基-1,

2,4-三硫杂环戊烷的混合物;2,4-二糠基呋喃;硫代苹果酸二异戊基酯;二巯基甲烷;1,1-二甲氧基-反-2-己烯;2,4-二甲基-1,3-二氧戊环;3,5-和3,6-二甲基-2-异丁基吡嗪;2,5-二甲基-3(2h)-呋喃酮;(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-醇;(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-基乙酸酯;2,5-二甲基-4-乙氧基-3(2h)-呋喃酮;(+/-)-反-和顺-5-(2,2-二甲基环丙基)-3-甲基-2-戊烯醛;2,5-二甲基呋喃;双香草醛;(+/-)-2,8-环硫代-顺-对薄荷烷;环氧氧代佛尔酮;番茄红素;番茄粉;脱水番茄;番茄提取物;番茄汁;番茄;乙烷-1,1-二硫醇;顺-3-己烯酸乙酯;N-乙基反-2-顺-6-壬二烯酰胺;乙基糠基醚;N-乙基邻氨基苯甲酸乙酯;N-甲基邻氨基苯甲酸乙酯;(+/-)-4-乙基辛醛;异戊酸丁子香基酯;糠基2-甲基-3-呋喃基二硫醚;1-(2-呋喃基)丁-3-酮;香叶酸;2-甲基丁酸香叶基酯;戊酸香叶基酯;脂肪酸的甘油-乳酸酯;庚-反-2-烯-1-基乙酸酯;庚-2-烯-1-基异戊酸酯;反-2-反-4-庚二烯-1-醇;2-庚硫醇;(+/-)-1-庚烯-3-醇;顺-和反-2-庚基环丙基甲酸;2,4-己二烯基丙酸酯;2,4-己二烯基乙酸酯;2,4-己二烯基丁酸酯;2,4-己二烯基异丁酸酯;2-己烯基辛酸酯;3-巯基丁酸己酯;2-己基噻吩;4-羟基-2-丁烯酸γ-内酯;3-羟基-2-辛酮;2-(2-羟基-4-甲基-3-环己烯基)丙酸γ-内酯;5-羟基-4-甲基己酸δ-内酯;1-(3-羟基-5-甲基-2-噻吩基)乙酮;(+/-)-2-羟基胡椒酮;β-紫罗酮环氧化物;异黄葵内酯;异丁酸异冰片酯;2-甲基丁酸异冰片酯;N-异丁基十-反-2-反-4-二烯酰胺;N-甲基邻氨基苯甲酸异丁酯;(+/-)-异丁基3-甲基硫代丁酸酯;β-异甲基紫罗酮;乙酸异丙烯酯;甘油和丙二醇的乳酰化脂肪酸酯;2-(L-薄荷氧基)乙醇;薄荷基吡咯烷酮甲酸酯;戊酸薄荷基酯;4-巯基-2-戊酮;(+/-)-4-巯基-4-甲基-2-戊醇;2-巯基茴香醚;丁酸甲硫氨酰基酯;反-和顺-1-甲氧基-1-癸烯;(S1)-甲氧基-3-庚硫醇;2-甲氧基苯乙酮;顺-3-己烯酸甲酯;顺-5-辛烯酸甲酯;3-(甲基硫代)丁酸甲酯;3-巯基丁酸甲酯;甲基异戊基二硫醚;N,N-二甲基邻氨基苯甲酸甲酯;N-乙酰基邻氨基苯甲酸甲酯;N-甲酰基邻氨基苯甲酸甲酯;S-甲基丙烷硫酯;2-甲基-1-甲基硫代-2-丁烯;3-甲基-2(3-甲基丁-2-烯-1-基)呋喃;3-(5-甲基-2-呋喃基)丙-2-烯醛;5-甲基-3(2h)-呋喃酮;6-甲基-5-庚烯-2-基乙酸酯;2-甲基丁-2-烯-1-醇;2-甲基呋喃;4-甲基戊-2-烯酸;3-(甲基硫代)-2-丁酮;4-(甲基硫代)-2-戊酮;(+/-)-3-(甲基硫代)庚醛;3-(甲基硫代)甲基噻吩;甲基硫代甲基硫醇;脂肪酸的甘油单酯和甘油二酯;壬-2,4,6-三烯醛;2-壬烯酸γ-内酯;顺-3-辛烯基丙酸酯;L-鸟氨酸单盐酸盐/鸟氨酸;戊-2-烯基己酸酯;2-戊酰基呋喃;2-戊烯酸;(+/-)-2-苯基-4-甲基-2-己烯醛;苯酞;叶绿醇;乙酸叶绿基酯;3-松茨酮;胡椒烯酮醚;L-胡椒酮;脂肪酸的聚甘油酯;乙酸异戊二烯基酯(Prenyl Acetate);苯甲酸异戊二烯基酯;己酸异戊二烯基酯;甲酸异戊二烯基酯;异丁酸异戊二烯基酯;2-巯基丙酸丙酯;脂肪酸的丙二醇单酯和二酯;十四-2-烯醛;硫代乙酸;反-和顺-2,4,8-三甲基-3,7-壬二烯-2-醇;(+/-)-2,4,8-三甲基-7-壬烯-2-醇;3,7,11-三甲基十二-2,6,10-三烯基乙酸酯;2,4,6-三硫杂庚烷;酪胺;马鞭草烯酮;岩兰草醇;乙酸岩兰草基酯;日本薄荷油(田野薄荷(Mentha Arvensis L.));长柄日光菊(Heliopsis Longipes)提取物;苏格兰绿薄荷油;苏格兰留兰香(Mentha Cardiaca L.);天然山核桃木烟调味料;甜菜碱;腺苷单磷酸酯;腺苷酸单钠或腺苷酸二钠;酶改性的异槲皮苷;松香的甘油酯;阿拉伯胶;辛烯丁二酸氢酯;(-)-高圣草酚钠盐;甜菜汁提取物;(+/-)-N,N-二甲基薄荷基琥珀酰胺;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;N-(庚-4-基)苯并[D][1,3]间二氧杂环戊烯-5-甲酰胺;N1-(2,4-二甲氧基苄基)-N2-(2-(吡啶-2-基)乙基)草酰

胺;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(5-甲基吡啶-2-基)乙基)草酰胺;1,6-己内酰胺;乙胺;丙胺;异丙胺;异丁胺;仲丁胺;2-甲基丁胺;戊胺;己胺;2-甲基哌啶;三甲胺氧化物;三乙胺;三丙胺;N,N-二甲基苯乙胺;2-乙酰基-1-吡咯啉;哌嗪;丁酰胺;10-十一碳烯酸甲酯;N-葡糖基乙醇胺;N-葡糖基乙醇胺磷酸酯;N-乳酰基乙醇胺;N-乳酰基乙醇胺磷酸酯;乙硫醇;庚烷-1-硫醇;S-异丙基3-甲基丁-2-烯硫酯;3-甲基己醛;4-戊烯醛;丙烷硫代磺酸丙酯;α-紫罗烯;胶栀子(Gardenia Gummifera)馏出物;荜茇馏出物;N-3,7-二甲基-2,6-辛二烯基环丙基甲酰胺;(+/-)-乙基2-羟基-2-甲基丁酸酯;(+/-)-乙基2-羟基-3-甲基戊酸酯;2-(2-羟苯基)环丙基甲酸δ内酯;2-癸酮;(+/-)-反-和顺-2-己烯醛丙二醇缩醛;(+/-)-反-和顺-2-己烯醛甘油基缩醛;反-2-己烯基2-甲基丁酸酯;2-(4-甲基-5-噻唑基)乙基甲酸酯;2-(4-甲基-5-噻唑基)乙基丙酸酯;2-(4-甲基-5-噻唑基)乙基丁酸酯;2-(4-甲基-5-噻唑基)乙基异丁酸酯;2-(4-甲基-5-噻唑基)乙基己酸酯;2-(4-甲基-5-噻唑基)乙基辛酸酯;2-(4-甲基-5-噻唑基)乙基癸酸酯;(+/-)-3-(乙基硫代)丁醇;燕根(Decalepis Hamiltonii)提取物;2-(反-2-戊烯基)环戊酮;3,9-二甲基-6-(1-甲基乙基)-1,4-二氧杂螺[4.5]癸-2-酮;顺-和反-2-异丁基-4-甲基-1,3-二氧戊环;顺-和反-2-异丙基-4-甲基-1,3-二氧戊环;4-氨基丁酸;3-巯基庚基乙酸酯;反-2-甲基-2-戊烯酸乙酯;甲基己基醚;反-2-反-4-壬二烯;1-辛烯;顺-和反-乙基2,4-二甲基-1,3-二氧戊环-2-乙酸酯;反-2-甲基-2-丁烯酸香茅基酯;5-乙酰基-2,3-二氢-1,4-噻嗪;双(1-巯基丙基)硫醚;2,5-二硫杂己烷;假紫罗酮;顺-和反-L-巯基-对薄荷烷-3-酮;反-2-壬烯-4-酮;反-4-壬烯醛;1,1'-(四氢-6a-羟基-2,3a,5-三甲基呋喃并[2,3-D]-1,3-间二氧杂环戊烯-2,5-二基)双-乙酮;反-2-癸烯醇;顺-2-戊烯醇;2-甲基丁基3-甲基-2-丁烯酸酯;甘油的柠檬酸酯和脂肪酸酯;L-薄荷基(R,S)-3-羟基丁酸酯;N-[(乙氧基羰基)甲基)-对薄荷烷-3-甲酰胺;N-[2-(3,4-二甲氧基苯基)乙基]-3,4-二甲氧基肉桂酸酰胺;甲基环己二烯与亚甲基环己烯的混合物;(+/-)-顺-和反-1,2-二氢紫苏醛;5,7-二羟基-2-(3-羟基-4-甲氧基苯基)色满-4-酮;癸酸苯乙基酯;3,6-二甲基-2,3,3a,4,5,7a-六氢苯并呋喃;2-甲基苯乙酮;1-乙基-2-吡咯甲醛;顺-和反-5-乙基-2,5-二氢-4-甲基-2-(1-甲基丙基)-噻唑;顺和反-5-乙基-4-甲基-2-(2-甲基丙基)-噻唑啉;2-甲基-3-呋喃基甲基硫代甲基二硫醚;吡咯烷基-[1,2e]-4h-2,4-二甲基-1,3,5-二噻嗪;S-烯丙基-L-半胱氨酸;5-戊基-3h-呋喃-2-酮;3-巯基-3-甲基-1-丁基乙酸酯;(+/-)-3-巯基-1-丁基乙酸酯;5-壬烯-反-2-酮;L-薄荷基乙酰乙酸酯;4-辛烯-3-酮;2,4,6-三甲基苯酚;4-羟基苯乙酮;(+/-)-[R-(E)]-5-异丙基-8-甲基壬-6,8-二烯-2-酮;1-甲基-1h-吡咯-2-甲醛;1-戊硫醇;十五烷酸;十三醛;十三烷酸;庚酸己酯;丙酸十二烷基酯;壬酸己酯;丁酸十二烷基酯;庚酸庚酯;癸酸己酯;4-甲基戊酸乙酯;2-乙基丁酸乙酯;2-乙基己酸乙酯;5-甲基己基乙酸酯;4-甲基戊基异戊酸酯;3,7-二甲基辛醛;顺-4-癸烯醇;顺-5-辛烯酸;5-己烯醇;3-异丙烯基戊二酸;4-戊烯酸甲酯;顺-4-辛烯醇;11-十二碳烯酸;反-3-己烯醇;反-4-辛烯酸;10-十一碳烯酸异丁酯;顺-9-十八碳烯基乙酸酯;4-戊烯酸乙酯;3-辛烯酸乙酯;3-辛烯酸;顺-9-十八碳烯醇;癸醛丙二醇缩醛;乙醛己基异戊基缩醛;十二醛二甲基缩醛;壬醛二甲基缩醛;庚醛丙二醇缩醛;己醛己基异戊基缩醛;己醛二己基缩醛;异戊醛二乙基缩醛;戊醛丙二醇缩醛;壬醛丙二醇缩醛;十一醛丙二醇缩醛;戊醛二丁基缩醛;乙醛1,3-辛二醇缩醛;己醛辛烷-1,3-二醇缩醛;异戊醛甘油基缩醛;乙醛二-顺-3-己烯基缩醛;2,6-二甲基-5-庚烯醛丙二醇缩醛;辛醛丙二醇缩醛;己醛丁烷-2,3-

二醇缩醛;美洲山核桃壳粉;二-(1-丙烯基)-硫醚(异构体的混合物);2-戊基噻吩;5-乙基-2-甲基噻唑;2,4-二甲基吡啶;3-(4-羟苯基)-1-(2,4,6-三羟苯基)丙-1-酮;(+/-)-乙基3-羟基-2-甲基丁酸酯;(+/-)-乙基3-巯基-2-甲基丁酸酯;(+/-)-顺-和反-2-甲基-2-(4-甲基-3-戊烯基)环丙甲醛;三甲基噁唑;2,5-二甲基-4-乙基噁唑;2-丙基-4,5-二甲基噁唑;2-异丁基-4,5-二甲基噁唑;2-甲基-4,5-苯并噁唑;2-壬酮丙二醇缩醛;6-甲基-5-庚烯-2-酮丙二醇缩醛;2-戊基2-甲基戊酸酯;3-辛基丁酸酯;巴豆酸二甲基苄基卡宾基酯;己酸二甲基苄基卡宾基酯;1,5-辛二烯-3-酮;10-十一碳烯-2-酮;2,4-二甲基-4-壬醇;8-壬烯-2-酮;8-对薄荷烯-1,2-二醇;石竹烯醇;D-2,8-对薄荷二烯-1-醇;顺-3-壬烯-1-醇;反-3-己烯基乙酸酯;4-(甲基硫代)丁基异硫氰酸酯;6-(甲基硫代)己基异硫氰酸酯;5-(甲基硫代)戊基异硫氰酸酯;异硫氰酸戊基酯;3-丁烯基异硫氰酸酯;2-丁基异硫氰酸酯;异硫氰酸乙酯;5-己烯基异硫氰酸酯;异硫氰酸己酯;异硫氰酸异戊酯;异硫氰酸异丁酯;异硫氰酸异丙酯;异硫氰酸甲酯;4-戊烯基异硫氰酸酯;异硫氰酸苄酯;2,4-二甲基-3-噁唑啉;3,4-二羟基苯甲酸;3-羟基苯甲酸;(+/-)-乙醛乙基异丙基缩醛;(+/-)-6-甲基辛醛;5-乙基-2,3-二甲基吡嗪;2-羟基-4-甲氧基苯甲醛;3-(甲基硫代)丙基己酸酯;月桂基硫酸钠;β-当归内酯;7-癸烯-4-内酯;9-癸烯-5-内酯;8-癸烯-5-内酯;6-[5(6)-癸烯酰基氧基]癸酸;5-乙酰氧基辛酸乙酯;5-羟基癸酸乙酯;9-十二碳烯-5-内酯;γ-十八内酯;δ-十八内酯;9-十四碳烯-5-内酯;奥林内酯(Orin Lactone);3-羟基丁酸甲酯;3-乙酰氧基-2-甲基丁酸甲酯;2-乙酰基己酸乙酯;3-羟基辛酸乙酯;3-乙酰氧基辛酸甲酯;5-氧代辛酸;5-氧代癸酸;5-氧代癸酸乙酯;5-氧代十二烷酸;2-乙酰基辛酸乙酯;2-氧代-3-乙基-4-丁内酯;3-异丙烯基-6-氧代庚酸;羟基丙酮;1-羟基-4-甲基-2-戊酮;丙二醇二乙酸酯;丙二醇二丙酸酯;丙二醇二丁酸酯;丙二醇单-2-甲基丁酸酯;丙二醇二-2-甲基丁酸酯;丙二醇单己酸酯;丙二醇二己酸酯;丙二醇二辛酸酯;己二酸二甲基酯;己二酸二丙基酯;己二酸二异丙基酯;己二酸二异丁基酯;己二酸二辛基酯;乙酰乙酸乙酯乙二醇缩酮;乙酰丙酸甲酯;乙酰丙酸乙酯丙二醇缩酮;乙酰丙酸丙酯;乙酰丙酸异戊酯;乳酸十二烷基酯;乳酸十六烷基酯;丙酮酸丙酯;羟基香茅醛丙二醇缩醛;柠檬醛甘油基缩醛;蒸馏的蘑菇油;丙二醇单丁酸酯;顺-3-己烯基乙酰乙酸酯;2-甲氧基-6-(2-丙烯基)苯酚;杨梅苷;(R)-(-)-1-辛烯-3-醇;顺-3-己烯酸;氨(也包括氯化铵);柚皮苷二氢查耳酮;N-对苯乙腈薄荷烷甲酰胺;毕澄茄醇;6-甲基庚醛,(+/-)-顺-和反-2-戊基-4-丙基-1,3-氧硫杂环己烷;氯化胆碱(也包括胆碱);3-[(2-甲基-3-呋喃基)硫代]丁醛;(-)-香紫苏醇;(+)-雪松醇;D-柠檬烯-10-醇;(2,4)-和(3,5)-和(3,6)-二甲基-3-环己烯基甲醛;1,3-对薄荷二烯-7-醛;对薄荷烷-7-醇;对薄荷-1-烯-9-醇;甲酸薄荷基酯;丙酸薄荷基酯;甲基环戊烯醇酮丙酸酯;3,3,5-三甲基环己基乙酸酯;Dl-樟脑;2-环戊基环戊酮;棕榈酸香芹基酯;环己酮二乙基缩酮;2-环己烯酮;8,9-脱氢茶香螺酮;L-葑酮;乙二胺四乙酸二钠盐;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-醇;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-酮;6-羟基香芹酮;L-薄荷基丁酸酯;异丁酸松香芹基酯;2-戊烯基-4-丙基-1,3-氧硫杂环己烷(异构体的混合物);乙醛二-异丁基缩醛;乙醛乙基异丁基缩醛;4-(2,2,3-三甲基环戊基)丁酸;紫苏醛丙二醇缩醛;2,6,6-三甲基-2-羟基环己酮;乙偶姻丙二醇缩酮;4,5-辛二酮;乙基麦芽酚异丁酸酯;2-四氢糠基2-巯基丙酸酯;橙花叔醇氧化物;糠醛丙二醇缩醛;3-(糠基硫代)丙酸甲酯;癸酸糠基酯;二-2-呋喃基甲烷;(E)-乙基3-(2-呋喃基)丙烯酸酯;甲酸糠基酯;2-甲基苯并呋喃;5-甲基糠醇;

2-甲基-3-呋喃基2-甲基-3-四氢呋喃基二硫醚;乙基2,5-二甲基-3-氧代-4(2h)-呋喃基碳酸酯;巴西莓提取物;4-(2-丙烯基)苯基-β-D-吡喃葡萄糖苷;N-(2-(吡啶-2-基)乙基)-3-对薄荷烷甲酰胺;(+/-)-N-乳酰基酪胺;顺,顺-3,6-壬二烯基乙酸酯;反-2-壬烯基乙酸酯;顺-3-壬烯基乙酸酯;顺-6-壬烯基乙酸酯;乙酸二氢高良姜基酯;2,3,3-三甲基茚酮;N-乙基-2,2-二异丙基丁酰胺;环丙基甲酸(2-异丙基-5-甲基环己基)酰胺;木兰醇;2-(甲基硫代)乙基乙酸酯;3-(甲基硫代)丙基巯基乙酸酯;乙基2-羟乙基硫醚;3-(甲基硫代)-顺-2-丙烯酸乙酯;3-(甲基硫代)-反-2-丙烯酸乙酯;3-(甲基硫代)-2-丙烯酸乙酯;4-甲基-2-(甲基硫代甲基)-2-己烯醛;5-甲基-2-(甲基硫代甲基)-2-己烯醛;4-甲基-2-(甲基硫代甲基)-2-戊烯醛;1-(3-(甲基硫代)-丁酰基)-2,6,6-三甲基环己烯;2-氧代硫杂环戊烷;β-(甲基硫代)丙烯酸丁酯;3-(乙基硫代)丁酸乙酯;甲基辛基硫醚;甲基1-丙烯基硫醚;二异戊基二硫醚;双(2-甲基苯基)二硫醚;丁基丙基二硫醚与丙基和丁基二硫醚的混合物;二仲丁基二硫醚;甲基2-甲基苯基二硫醚;二异戊基三硫醚;十二硫醇;2-羟基乙硫醇;4-巯基-4-甲基-2-己酮;3-巯基-3-甲基丁基异戊酸酯;3-巯基己醛;异硫代丁酸甲酯;3-巯基丙酸;2-乙基己基3-巯基丙酸酯;丁醛二苄基硫缩醛;甲硫基丙醛二乙基缩醛;乙基里哪基醚;月桂烯基甲基醚;沉香醇氧化物吡喃型;2-羟基-5-甲基苯乙酮;2-苯基丙醛丙二醇缩醛;肉桂醛丙二醇缩醛;α-乙酰基肉桂酸乙酯;2-羟基-3-苯基丙酸乙酯;3-(3,4-亚甲基二氧基苯基)-2-甲基丙醛;海藻糖二水合物;瑞鲍迪苷A;N-(2-羟乙基)-2,3-二甲基-2-异丙基丁酰胺;N-(1,1-二甲基-2-羟乙基)-2,2-二乙基丁酰胺;戊二酸二薄荷基酯;反-3-壬烯-1-醇;4-甲酰基-2-甲氧基苯基2-羟基丙酸酯;愈创木酚丁酸酯;愈创木酚异丁酸酯;愈创木酚丙酸酯;5-羟基辛酸乙酯;5-羟基癸酸异亚丙基甘油酯;2-乙基-2-己烯醛;2-己烯酸乙酯;山梨酸丙酯;顺-2-辛烯醇;2-亚己基己醛;反-2-十三碳烯醇;2-苯氧基乙基丙酸酯;4-叔丁基苯基乙酸丙酯;2-苯氧基乙醇;丁酸苯酯;胡椒醛丙二醇缩醛;乙酰丙酸苄酯;4-甲基苄醇;苯乙醛二乙基缩醛;壬酸苄酯;茴香醛丙二醇缩醛;4-甲基苯甲醛丙二醇缩醛;苯乙醛丙二醇缩醛;2-乙基己基苯甲酸酯;2-乙基-3-甲基硫代吡嗪;2-乙氧基-3-异丙基吡嗪;2-乙氧基-3-乙基吡嗪;丁基β-萘基醚;异戊基苯乙基醚;2-乙酰基-4-异丙烯基吡啶;4-乙酰基-2-异丙烯基吡啶;2-乙酰基-4-异丙基吡啶;2-甲氧基吡啶;6-甲氧基喹啉;2-戊基噻唑;2-噻吩基甲醇;2-乙酰基-5-甲基噻吩;4-甲基-3-噻唑啉;3,4-二甲基噻吩;1-(2-噻吩基)乙硫醇;4,5-二甲基-2-异丁基噻唑;甲基环戊烯醇酮丁酸酯;3-(甲基硫代)丙胺;4-甲基-顺-2-戊烯;1-壬烯;1,3,5,7-十一碳四烯;α-乙基-β-甲基-β-苯基缩水甘油酸乙酯;β-苯基缩水甘油酸甲酯;D-8-对薄荷烯-1,2-环氧化物;L-8-对薄荷烯-1,2-环氧化物;2,3-环氧辛醛;2,3-环氧庚醛;2,3-环氧癸醛;羟基(4-羟基-3-甲氧基苯基)乙酸;4-羟基-4-(3-羟基-1-丁烯基)-3,5,5-三甲基-2-环己烯-1-酮;(+/-)-2,6,10,10-四甲基-1-氧杂螺[4,5]癸-2,6-二烯-8-酮;4-(2-亚丁烯基)-3,5,5-三甲基环己-2-烯-1-酮;二香叶基醚;1-(4-羟基-3-甲氧基苯基)癸-3-酮;α-没药醇;2(4)-乙基-4(2),6-二甲基二氢-1,3,5-二噻嗪(异构体的混合物);(2e,6e/Z,8e)-N-(2-甲基丙基)-2,6,8-癸三烯酰胺;4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)酮和4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)酮盐酸盐;1,1-丙烷二硫醇;Z-5-辛烯基乙酸酯;(E)-4-十一碳烯醛;δ-十六内酯;三叶苷;L-异亮氨酸;1-(2-糠基硫代)-丙酮;(+/-)-4-甲基-2-丙基-1,3-氧硫杂环己烷;N-(2-甲基环己基)-2,3,4,5,6-五氟苯甲酰胺;富含花生四烯酸的油;5-异丙基-2,6-二乙基-2-甲基四氢-2h-吡喃;(1r,2s,

5r)-N-(4-甲氧基苯基)-5-甲基-2-(1-甲基乙基)环己烷甲酰胺;八氢-4,8a-二甲基-4a(2h)-萘酚;2-甲基-4,5-二氢呋喃-3-硫醇;(2s,5r)-N-[4-(2-氨基-2-氧代乙基)苯基]-5-甲基-2-(丙-2-基)环己烷甲酰胺;(+/-)-6-辛基四氢-2h-吡喃-2-酮;(+/-)-2-甲基四氢呋喃-3-硫醇乙酸酯;(+/-)-3-羟基-3-甲基-2,4-壬二酮;1,1-二丙氧基乙烷;菊花提取物;忍冬提取物;Yuzunone;L-甲硫氨酰基甘氨酸;N-环丙基-5-甲基-2-异丙基环己烷甲酰胺;3-戊硫醇;2-乙基-2,5-二氢-4-甲基噻唑;1-(甲基二硫代)-2-丙酮;5-甲基糠基硫醇;4-巯基-3-甲基-2-丁醇;L-乳酸亚铁;邻-反-香豆酸;3-[(4-氨基-2,2-二氧化-1h-2,1,3-苯并噻二嗪-5-基)氧基]-2,2-二甲基-N-丙基丙酰胺;2(3),5-二甲基-6,7-二氢-5h-环戊吡嗪;苯甲酸肉桂基酯;β-萘基甲基醚;迷迭香油树脂;9-癸烯-2-酮;1-(甲基硫代)-3-辛酮;3',7-二羟基-4'-甲氧基黄烷;谷氨酰基-缬氨酰基-甘氨酸;L-苏氨酸;罗汉果浓缩物;L-丙氨酰基-L-谷氨酰胺;蔗糖单棕榈酸酯;2-巯基-2-甲基丙酸乙酯;2-(3,4-二羟苯基)-5,7-二羟基-4-色满酮;N-[N-[3-(3-羟基-4-甲氧基苯基)丙基]-L-α-天冬氨酰基]-L-苯基丙氨酸1-甲基酯一水合物;甜黑莓叶提取物;2-[(2-(对薄荷基氧基)乙氧基]乙醇;琥珀酸;瑞鲍迪苷C;1-(2-羟苯基)-3-(吡啶-4-基)丙-1-酮;1-(2-羟基-4-异丁氧基苯基)-3-(吡啶-2-基)丙-1-酮;1-(2-羟基-4-甲氧基苯基)-3-(吡啶-2-基)丙-1-酮;反-4-叔丁基环己醇;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)咪唑烷-2,4-二酮;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)-5,5-二甲基咪唑烷-2,4-二酮;三叶草草药馏出物;葡糖基甜菊醇糖苷;D1-异薄荷醇;O-乙基S-1-甲氧基己-3-基硫代碳酸酯;Cassyrane;1,5-辛二烯-3-醇;(+/-)-2-巯基庚-4-醇;3-(甲基硫代)癸醛;(4z,7z)-十三碳-4,7-二烯醛;越南香菜(Persicaria Odorata)油;Amacha叶提取物;谷氨酰基-2-氨基丁酸;谷氨酰基-正缬氨酰基-甘氨酸;谷氨酰基-正缬氨酸;N1-(2,3-二甲氧基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;1-(2-羟基-4-甲基环己基)乙酮;压榨的墨西哥酸橙油;压榨的波斯酸橙油;(+/-)-6-甲氧基-2,6-二甲基庚醛;3,5-十一碳二烯-2-酮;(+/-)-2,5-十一碳二烯-1-醇;三乙基噻啶;4-甲基戊基4-甲基戊酸酯;顺-3-己烯基水杨酸酯;(R)-N-(1-甲氧基-4-甲基戊-2-基)-3,4-二甲基苯甲酰胺;N-乙酰基谷氨酸酯;1,3-丙二醇;花椒(Szechuan Pepper)提取物;假八角(Tasmannia Lanceolata)提取物;欧薄荷(Mentha Longifolia)油;山竹果馏出物;3-(2-羟苯基)丙酸乙酯;1-环丙烷甲基-4-甲氧基苯;硫代异丁酸异戊二烯基酯;硫代异戊酸异戊二烯基酯;(-)-马台树脂醇;甜菊苷;1-(2,4-二羟苯基)-3-(3-羟基-4-甲氧基苯基)丙-1-酮;5-甲酰氧基癸酸乙酯;3-[3-(2-异丙基-5-甲基-环己基)脲基]丁酸乙基酯;2-异丙基-4-甲基-3-噻唑啉;2,6,10-三甲基-9-十一碳烯醛;5-巯基-5-甲基-3-己酮;冷加压的野柠檬(Meyer Lemon)油;Citrus X Meyeri;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 60%;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 80%;(E)-N-[2-(1,3-苯并间二氧杂环戊烯-5-基)乙基]-3-(3,4-二甲氧基苯基)丙-2-烯酰胺;4-氨基-5-(3-(异丙基氨基)-2,2-二甲基-3-氧代丙氧基)-2-甲基喹啉-3-甲酸;3-甲基-5-(2,2,3-三甲基环戊-3-烯-1-基)戊-4-烯-2-醇;(1-甲基-2-(1,2,2-三甲基二环[3.1.0]己-3-基甲基)环丙基)甲醇;Erospicata油,留兰香(Mentha Spicata);皱叶薄荷油;皱叶留兰香(Mentha Spicata Var.Crispa);(+/-)-2-巯基-5-甲基庚-4-酮;石竹-3(4),8-二烯-5-醇;L-半胱氨酸甲基酯盐酸盐;2(3)-己硫醇;1-乙烯基-3-环己烯甲醛与4-乙烯基-1-环己烯甲醛的混合物;(+/-)-4-羟基-6-甲基-2-庚酮;2-辛基-2-十二烯醛;2-己基-2-癸烯

醛;反-6-辛烯醛;(E)-3-苯并[1,3]间二氧杂环戊烯-5-基-N,N-二苯基-2-丙烯酰胺;2,6-二甲基-5-庚烯醇;(+/-)-二环[2.2.1]庚-5-烯-2-甲酸,乙基酯;3-(乙酰基硫代)己醛;(+/-)-3-巯基-1-戊醇;(3r,3s)-3-[[(4-氨基-2,2-二氧化-1h-2,1,3-苯并噻二嗪-5-基)氧基]甲基]-N-环戊基-2-氧代-3-哌啶甲酰胺;(+/-)-1-环己基乙醇;(+/-)-8-甲基癸醛;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷C 30%;(+/-)-柚皮素;2-(((3-(2,3-二甲氧基苯基)-1h-1,2,4-三唑-5-基)硫代)甲基)吡啶;(2r)-3',5-二羟基-4'-甲氧基黄烷酮;葡糖基化的甜叶悬钩子(Rubus suavissimus)提取物,20-30%葡糖基化的甜茶苷糖苷;橄榄果实提取物;(S)-1-(3-(((4-氨基-2,2-二氧化-1h-苯并[C][1,2,6]噻二嗪-5-基)氧基)甲基)哌啶-1-基)-3-甲基丁-1-酮;8-甲基壬醛;蓖麻油酸、亚油酸和油酸的混合物;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 22%;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷C 22%;乙酸松香芹基酯;N-乙基-5-甲基-2-(1-甲基乙烯基)环己烷甲酰胺;2-(4-甲基苯氧基)-N-(1h-吡唑-3-基)-N-(噻吩-2-基甲基)乙酰胺;乙基-2-(4-羟基-3-甲氧基-苯基)乙酸酯;姜薄荷油(越南薄荷(Mentha X Gracilis));棕榈酰基化的绿茶提取物儿茶素;2-(5-异丙基-2-甲基四氢噻吩-2-基)乙醇;葡糖基化的甜叶悬钩子(Rubus suavissimus)提取物,60%葡糖基化的甜茶苷糖苷;太平洋檀香(Sandalwood Austrocaledonicum)油;以及甘蔗馏出物。

[0313] 在各种实施方案中,可摄取接受的成分可以包括甜味增强剂、甜化剂、鲜味风味增强剂、鲜味增味剂、酸味增味剂和冷却剂中的一种或多种。

[0314] 在一些实施方案中,可摄取组合物还包含另外的甜味剂,例如下文详细描述的甜味剂。在一些实施方案中,甜味剂以约0.1重量%至约12重量%的量存在。在一些实施方案中,甜味剂以约0.2重量%至约10重量%的量存在。在一些实施方案中,甜味剂以约0.3重量%至约8重量%的量存在。在一些实施方案中,甜味剂以约0.4重量%至约6重量%的量存在。在一些实施方案中,甜味剂以约0.5重量%至约5重量%的量存在。在一些实施方案中,甜味剂以约1重量%至约2重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约5重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约4重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约3重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约2重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约1重量%的量存在。在一些实施方案中,甜味剂以约0.1重量%至约0.5重量%的量存在。在一些实施方案中,甜味剂以约0.5重量%至约10重量%的量存在。在一些实施方案中,甜味剂以约2重量%至约8重量%的量存在。

[0315] 在一些实施方案中,式(I)的化合物和另外的甜味剂以约1:100,000至100,000:1的比例或其间的任何比例存在。在一些实施方案中,式(I)的化合物和甜味剂以约1:90,000、约1:80,000、约1:70,000、约1:60,000、约1:50,000、约1:40,000、约1:30,000、约1:20,000、约1:10,000、1:9,000、约1:8,000、约1:7,000、约1:6,000、约1:5,000、约1:4,000、约1:3,000、约1:2,000、约1:1,000、约1:900、约1:800、约1:700、约1:600、约1:500、约1:450、约1:400、约1:350、约1:300、约1:250、约1:200、约1:150、约1:100、约1:90、约1:85、约1:80、约1:75、约1:70、约1:65、约1:60、约1:55、约1:50、约1:45、约1:40、约1:35、约1:30、约1:25、约1:20、约1:19、约1:18、约1:17、约1:16、约1:15、约1:14、约1:13、约1:12、约1:11、约1:10、约1:9、约1:8、约1:7、约1:6、约1:5、约1:4、约1:3、约1:2、约1:1、约2:1、约3:1、约4:1、约5:1、约6:1、约7:1、约8:1、约9:1、约10:1、约11:1、约12:1、约13:1、约14:1、约15:1、约16:1、约

17:1、约18:1、约19:1、约20:1、约25:1、约30:1、约35:1、约40:1、约45:1、约50:1、约55:1、约60:1、约65:1、约70:1、约75:1、约80:1、约85:1、约90:1、约95:1、约100:1、约150:1、约200:1、约250:1、约300:1、约350:1、约400:1、约450:1、约500:1、约600:1、约700:1、约800:1、约900:1、约1,000:1、约1,000:1、约2,000:1、约3,000:1、约4,000:1、约5,000:1、约6,000:1、约7,000:1、约8000:1、约9,000:1、约10,000:1、约20,000:1、约30,000:1、约40,000:1、约50,000:1、约60,000:1、约70,000:1、约80,000:1、约90,000:1、约100,000:1的比例或其间的任何比例存在。

[0316] 另外的甜味剂具有宽范围的化学上不同的结构，并且因此具有不同的性质，例如但不限于，气味、风味、口感和回味。

[0317] 在一些实施方案中，甜味剂可以包含本文公开的两种或更多种甜味剂的组合。在一些实施方案中，甜味剂可以包含本文公开的两种、三种、四种或五种甜味剂的组合。在一些实施方案中，甜味剂可以为糖。在一些实施方案中，甜味剂可以为一种或多种糖与其他的天然和人造甜味剂的组合。在一些实施方案中，甜味剂为糖。在一些实施方案中，糖为甘蔗糖。在一些实施方案中，糖为甜菜糖。在一些实施方案中，糖可以为蔗糖、果糖、葡萄糖或其组合。在一些实施方案中，糖可以为蔗糖。在一些实施方案中，糖可以为果糖和葡萄糖的组合。在一些实施方案中，糖可以为约55％果糖和约42％葡萄糖的组合。在一些实施方案中，糖可以为约42％果糖和约53％葡萄糖的组合。在一些实施方案中，糖可以为约90％果糖和约10％葡萄糖的组合。在一些实施方案中，甜味剂可以稀有糖。在一些实施方案中，稀有糖选自D-阿洛糖，D-阿洛酮糖，L-核糖，D-塔格糖，L-葡萄糖，L-岩藻糖，L-arbinose，D-松二糖，D-明串珠菌二糖及其组合。在一些实施方案中，稀有糖为D-阿洛酮糖。在一些实施方案中，稀有糖为D-塔格糖。在一些实施方案中，甜味剂为人造甜味剂。在一些实施方案中，人造甜味剂可以为三氯蔗糖。

[0318] 在一些实施方案中，另外的甜味剂可以可以为常规的糖甜味剂，例如，蔗糖、果糖、葡萄糖，以及包含天然糖的甜味剂组合物(例如玉米糖浆(包括高果糖玉米糖浆)或其他糖浆)或者来源于天然水果和蔬菜来源的甜味剂浓缩物；稀有的天然糖，包括D-阿洛糖、D-阿洛酮糖、L-核糖、D-塔格糖、L-葡萄糖、L-岩藻糖、L-阿拉伯糖、D-松二糖和D-明串珠菌二糖；半合成“糖醇”甜味剂，例如赤藓糖醇、异麦芽糖醇、乳糖醇、甘露糖醇、山梨糖醇、木糖醇、麦芽糖糊精等；以及人造甜味剂，例如阿斯巴甜、糖精、乙酰舒泛-K、环己氨磺酸盐、三氯蔗糖和阿力甜。在一些实施方案中，甜味剂可以选自环己氨磺酸、罗汉果苷、塔格糖、麦芽糖、半乳糖、甘露糖、蔗糖、果糖、乳糖、纽甜和其他的阿斯巴甜衍生物、葡萄糖、D-色氨酸、甘氨酸、麦芽糖醇、乳糖醇、异麦芽糖醇、氢化的葡萄糖糖浆(HGS)、氢化的淀粉水解产物(HSH)、甜菊苷、瑞鲍迪苷A以及其他的基于甜叶菊的糖苷、carrelame以及其他基于胍的甜味剂。

[0319] 在包含另外的甜味剂并结合至少一种本文所述的化合物的制剂中使用的天然或人造甜味剂包括但不限于天然或合成的糖类或糖类类似物，包括单糖、二糖、低聚糖和多糖，并且包括稀有糖，或者D-构象或L-构象的糖，并且包括，例如，蔗糖、果糖、葡萄糖、L-阿拉伯糖、L-岩藻糖、L-葡萄糖、L-核糖、D-阿拉伯-己酮糖、阿洛酮糖、阿卓糖、阿拉伯糖、松二糖、阿比可糖、阿洛糖、万年甘三萜苷A、丙醛糖、苏糖、木糖、木酮糖、低聚木糖(例如木三糖和木二糖)、来苏糖、聚右旋糖、低聚果糖、岩藻糖、低聚半乳糖、半乳糖胺、半乳糖、低聚龙胆糖(例如龙胆二糖、龙胆三糖和龙胆四糖)、右旋糖、纤维二糖、D-明串珠菌二糖、D-阿洛酮

糖、D-核糖、D-塔格糖、海藻糖(trehalose/mycose)、新海藻糖、异海藻糖、蜜三糖、艾杜糖、塔格糖、蜜二糖、低聚甘露糖、鼠李糖、核糖、核酮糖、低聚麦芽糖(例如麦芽三糖、麦芽四糖、麦芽五糖、麦芽六糖和麦芽七糖)、麦芽糖、蔗糖乙酸异丁酸酯、右旋糖、赤藓糖、赤藓酮糖、脱氧核糖、古洛糖、酮丙糖、乳糖、乳果糖、蔗果三糖、蔗果四糖、甘露糖、三氯蔗糖、帕拉金糖、聚右旋糖、山梨糖、sugaridextrose(混合糖)或塔洛糖,或前述甜味剂中的任意两种或更多种的组合。

[0320] 另外的甜味剂也可以包括,例如,包含一种或多种天然或合成糖类的甜味剂组合物,例如玉米糖浆、高果糖玉米糖浆、高麦芽糖玉米糖浆、葡萄糖糖浆、三氯蔗糖糖浆、氢化的葡萄糖糖浆(HGS)、氢化的淀粉水解产物(HSH),或者来源于天然水果和蔬菜来源的其他糖浆或甜味剂浓缩物,或者半合成的"糖醇"甜味剂,例如多元醇。在一些实施方案中的多元醇的非限制性实例包括赤藓糖醇、麦芽糖醇、甘露糖醇、山梨糖醇、乳糖醇、木糖醇、异麦芽糖醇、丙二醇、甘油(glycerol/glycerin)、苏糖醇、半乳糖醇、帕拉金糖、还原的低聚异麦芽糖、还原的低聚木糖、还原的低聚龙胆糖、还原的麦芽糖糖浆、还原的葡萄糖糖浆、异麦芽酮糖、麦芽糖糊精等,以及能够被还原且不对味道产生不利影响的糖醇或任何其他糖类或其组合。

[0321] 另外的甜味剂可以是天然或合成的甜味剂,包括但不限于,龙舌兰菊粉;龙舌兰花蜜;龙舌兰糖浆;日本甘酒;布那珍;糙米糖浆;椰子晶体;椰子糖;椰子糖浆;枣糖;果聚糖(也被称为菊粉纤维、低聚果糖(fructo-oligosaccharides)或低聚果糖(oligo-fructose));绿甜叶菊粉末,甜叶菊(Stevia rebaudiana);瑞鲍迪苷A;瑞鲍迪苷B;瑞鲍迪苷C;瑞鲍迪苷D;瑞鲍迪苷;瑞鲍迪苷F;瑞鲍迪苷I;瑞鲍迪苷H;瑞鲍迪苷L;瑞鲍迪苷K;瑞鲍迪苷J;瑞鲍迪苷N;瑞鲍迪苷O;瑞鲍迪苷M以及其他的基于甜叶菊的糖苷;甜菊苷;甜菊苷提取物;蜜;菊芋(Jerusalem artichoke)糖浆;甘草根;罗汉果(果实、粉末或者提取物);蛋果(lucuma)(果实、粉末或提取物);枫树树液(包括,例如,从糖枫(Acer saccharum)、黑槭(Acer nigrum)、美国红枫(Acer rubrum)、银槭(Acer saccharinum)、挪威枫(Acer platanoides)、复叶槭(Acer negundo)、大叶槭(Acer macrophyllum)、粗齿槭(Acer grandidentatum)、光槭(Acer glabrum)、色木槭(Acer mono)提取的树液);枫糖浆;枫糖;胡桃树液(包括,例如,从灰胡桃(Juglans cinerea)、黑胡桃(Juglans nigra)、Juglans ailatifolia、胡桃(Juglans regia)提取的树液);桦木树液(包括,例如,从纸桦(Betula papyrifera)、黄桦(Betula alleghaniensis)、黑桦(Betula lenta)、河岸黑桦(Betula nigra)、灰色桦木(Betula populifolia)、垂枝桦(Betula pendula)提取的树液);美国梧桐树液(例如,从北美悬铃木(Platanus occidentalis)提取的树液);铁木树液(例如,从美洲铁木(Ostrya virginiana)提取的树液);有机原蔗糖(mascobado);糖蜜(例如,赤糖糊);桔糖(molasses sugar);莫那甜;莫奈林;甘蔗糖(也被称为天然糖、未精制的甘蔗糖或蔗糖);棕榈糖;墨西哥粗糖(panocha);粗糖锭;原蔗糖(rapadura);粗糖;大米糖浆;高粱;高粱糖浆;木薯糖浆(cassava syrup)(也被称为木薯糖浆(tapioca syrup));索马甜;雪莲果根;麦芽糖浆;大麦芽糖浆;大麦芽粉末;甜菜糖;甘蔗糖,晶状汁晶体;焦糖;卡必醇;角豆树糖浆;细白砂糖(castor sugar);氢化的淀粉纯露;水解的罐装汁;水解的淀粉;转化糖;茴香脑;阿拉伯半乳聚糖;浓缩葡萄汁,糖浆;P-4000;乙酰舒泛钾(也被称为乙酰舒泛K或ace-K);阿力甜(也被称为阿力甜(aclame));爱德万甜;阿斯巴甜;白云参苷;纽甜;苯甲酰胺衍

生物;bernadame;坎特雷(canderel);carrelame和其他的基于胍的甜味剂;蔬菜纤维;玉米糖;偶联糖;仙茅甜蛋白;环己氨磺酸盐;青钱柳苷I;金砂糖(demerara);葡聚糖;糊精;糖化麦芽;甘素;甜精;对乙氧苯基脲(valzin);杜尔可苷A;杜尔可苷B;emulin;甘草次酸;麦芽糖糊精;糖精;草蒿脑;乙基麦芽酚;羟本基甘氨酸(glucin);葡糖酸;葡糖酸-内酯;葡萄糖胺;葡糖醛酸;甘油;甘氨酸;glycyphillin;甘草甜素;金砂糖;黄糖;金糖浆;粒状糖;绞股蓝属(gynostemma);荷南度辛;异构化的液体糖;jallab;菊苣根食用纤维;犬尿氨酸衍生物(包括N'-甲酰基-犬尿氨酸;N'-乙酰基-犬尿氨酸;6-氯-犬尿氨酸);半乳糖醇;利体素(litesse);ligicane;来卡生(lycasin);N-(4-氰苯基)-N-(2,3-亚甲二氧苄基)胍乙酸;胍;法勒诺姆(falernum);马槟榔甜蛋白I;马槟榔甜蛋白II;麦芽酚;麦芽糖醇;麦芽糖糊精;麦芽三糖醇(maltotriol);甘露糖胺;奇果甜素;水饴(mizuame);罗汉果苷(包括,例如,罗汉果苷IV、罗汉果苷V和新罗汉果苷);无患子倍半萜苷;纳米糖;柚皮苷二氢查耳酮;新橙皮苷二氢查耳酮;粗糖;低聚黑曲霉糖;norbu;杏仁糖浆;欧亚水龙骨甜素;佩克梅兹(pekmez);潘塔亭;巴西甘草甜素I;紫苏醛;紫苏葶;petphyllum;苯基丙氨酸;糙苏苷I;phlorodizin;甘茶叶素;聚糖醇糖浆;多足蕨苷A;皮提罗苷A;皮提罗苷B;甜菊糖(rebiana);精炼糖浆;rub syrup;甜茶苷;落蕨素A;shugr;赛门苷I;罗汉果;大豆低聚糖;三氯蔗糖(Splenda);SRI肟V;甜菊醇糖苷;甜菊双糖苷;甜菊苷;叉柱花素1、2和4;sucronic acid;sucrononate;suosan糖;根皮苷;超级阿斯巴甜;四糖;苏糖醇;糖蜜(treacle);trilobtain;色氨酸和衍生物(6-三氟甲基-色氨酸,6-氯-D-色氨酸);香草糖;庚七醇(volemitol);桦木糖浆;阿斯巴甜-乙酰舒泛;assugrin;以及它们的任意两种或更多种的组合或混合物。

[0322] 在一些实施方案中,另外的甜味剂选自甜菊双糖苷;甜菊苷;甜叶菊(Stevia rebaudiana);瑞鲍迪苷A;瑞鲍迪苷B;瑞鲍迪苷C;瑞鲍迪苷D;瑞鲍迪苷E;瑞鲍迪苷F;瑞鲍迪苷I;瑞鲍迪苷H;瑞鲍迪苷L;瑞鲍迪苷K;瑞鲍迪苷J;瑞鲍迪苷N;瑞鲍迪苷O;瑞鲍迪苷M;甘草次酸;甘草甜素;GAMG(单葡糖醛酸基甘草次酸);索马甜;莫奈林;brazzelin;以及它们的任意两种或更多种的组合或混合物。

[0323] 在其他实施方案中,另外的甜味剂可以是化学改性或酶改性的天然高效甜味剂。改性的天然高效甜味剂包括糖基化的天然高效甜味剂,例如含有1个至50个糖苷残基的葡糖基-衍生物、半乳糖基-衍生物或果糖基-衍生物。糖基化的天然高效甜味剂可以通过由各种具有转糖基活性的酶催化的酶转糖基反应来制备。在一些实施方案中,改性的甜味剂可以是取代的或未取代的。

[0324] 另外的甜味剂也包括任何前述甜味剂中的任意两种或更多种的组合。在一些实施方案中,甜味剂可以包含两种、三种、四种或五种本文公开的甜味剂的组合。在一些实施方案中,甜味剂可以为糖。在一些实施方案中,甜味剂可以为一种或多种糖与其他的天然和人造甜味剂的组合。

[0325] 本领域技术人员将认识到,任何前述另外的甜味剂中的一种或多种可以以各种比例、量或浓度结合,以得到单独的另外的甜味剂或者两种或更多种另外的甜味剂的组合,其然后与本文所述的化合物结合。

[0326] 本领域技术人员将认识到,在包含一种或多种另外的甜味剂和一种或多种本文所述的化合物的制剂中使用的前述另外的甜味剂通过实例来提供,并非旨在限制。

[0327] 在一些实施方案中，可摄取组合物不包含另外的甜味剂。在一些实施方案中，可摄取组合物不包含选自蔗糖、果糖或葡萄糖的一种或多种另外的甜味剂。

[0328] 在一些实施方案中，组合物包含甜味化合物和/或甜味增强化合物，以及一种或多种非活性成分。代表性的非活性成分包括但不限于，美国食品药品监管局公布的那些非活性成分。此类非活性成分包括：α-松油醇；α-生育酚；α-生育酚乙酸酯；Dl-α-生育酚乙酸酯；Dl-α-生育酚；β-胡萝卜素；β-环糊精磺丁基醚钠；β-紫罗酮；1-(苯基偶氮基)-2-萘胺；1,2,6-己三醇；1,2-二肉豆蔻酰基-Sn-甘油基-3-(磷酸-S-(1-甘油))；1,2-二肉豆蔻酰基-Sn-甘油基-3-磷酸胆碱；1,2-二油酰基-Sn-甘油基-3-磷酸胆碱；1,2-二棕榈酰基-Sn-甘油基-3-(磷酸-Rac-(1-甘油))；1,2-二硬脂酰基-Sn-甘油基-3-(磷酸-Rac-(1-甘油))；1,2-二硬脂酰基-Sn-甘油基-3-磷酸胆碱；1-氨基环己烷甲酸，C-11；1-邻甲苯基双胍；2212细黑色；2-乙基-1,6-己二醇；阿拉伯胶；阿拉伯胶糖浆；乙酰舒泛；乙酰舒泛钾；对乙酰氨基酚；乙酸；乙酸酐；丙酮；丙酮合亚硫酸氢钠；乙腈；苯乙酮；乙酰化的羊毛脂醇；乙酰基半胱氨酸；柠檬酸乙酰基三丁酯；Dl-乙酰基色氨酸；酸性蓝9铵；酸性橙20；丙烯酸酯共聚物；Acryl-Eze 93018509白色；Acryl-Eze 93053823橙色；Acryl-Eze93084719粉色；Acryl-Eze 93084720粉色；丙烯酸-丙烯酸异辛酯共聚物；丙烯酸粘合剂788；活性碳；Adcote 72a103，胶带；己二酸；Advantia Prime 190100ba01白色；Aerotex树脂3730；琼脂；空气；丙氨酸；聚集的白蛋白；白蛋白胶体；人白蛋白；白蛋白；尿囊素氯羟铝(Alcloxa)；醇；α环糊精(Alfadex)；水合氢氧化铝(Algeldrate)；海藻酸；烷基铵磺酸甜菜碱；烷基芳基磺酸钠；尿囊素；杏仁油；药蜀葵(Althaea Officinalis)根；乙酸铝；氢氧化铝；氢氧化铝-蔗糖，含水；单硬脂酸铝；氧化铝；铝聚酯；硅酸铝；硅酸铝五水合物；淀粉辛烯基琥珀酸铝；硬脂酸铝；碱式乙酸铝；无水硫酸铝；硫酸铝十四水合物；Alzamer-39；Alzamer-50；苋菜红；Amberlite；Amberlite Xe-58；Amberlite Xe-88；Amerchol C；Amerchol-Cab；氨基苯甲酸钠；氨基甲基丙醇；氨；铵基甲基丙烯酸酯共聚物；铵基甲基丙烯酸酯共聚物A型；铵基甲基丙烯酸酯共聚物B型；乙酸铵；藻酸钙铵；氯化铵；甘草酸铵；月桂基硫酸铵；壬苯醇醚-4硫酸铵；磷酸氢二铵；C-12-C-15直链伯醇乙氧基化物的铵盐；硫酸铵；Ammonyx；Amphoteric-9；乙酸戊酯；茴香脑；无水柠檬酸；无水右旋糖；无水磷酸氢钙；无水乳糖；无水柠檬酸三钠；Anidrisorb 85/70；茴芹；茴芹油；Anoxid Sbn；消泡剂；消泡剂Dc；消泡剂M；安替比林(Antipyrine)；阿帕氟烷；杏仁油Peg-6酯；Aquacel 126；Aquacoat；Aquacoat Ecd；Aquacoat Ecd-30；Aquaphor；Aquarius Bkt14090黄色；Aquarius Bp17066蓝色；精氨酸；Arlacel；抗坏血酸；棕榈酸抗坏血酸酯；阿斯巴甜；天冬氨酸；凹凸棒石；秘鲁香脂；硫酸钡；合成蜂蜡；Beheneth-10；膨润土；苯甲醛；苯扎氯铵；苯磺酸；苄索氯铵；苯度溴铵；苯甲酸；安息香树脂；乙酸苄酯；苄醇；苯甲酸苄酯；苄基氯；苄基紫；Betadex；β萘酚；Betose；双巴西肽(Bibapcitide)；次碳酸铋；次没食子酸铋；黑醋栗；黑墨；硼酸；溴克利那(Brocrinat)；棕色氧化铁；缓冲的苏打；丁烷；丁醇；甲基乙烯基醚的丁基酯/马来酸酐共聚物(125000Mw)；硬脂酸丁酯；丁基化的羟基茴香醚；丁基羟基甲苯；丁二醇；对羟基苯甲酸丁酯；丁酸；C12-15烷基乳酸酯；C20-40Pareth-24；咖啡因；钙；乙酸钙；海藻酸钙和海藻酸铵；抗坏血酸钙；碳酸钙；角叉菜胶硫酸钙；氯化钙；柠檬酸钙；环己氨磺酸钙；葡庚糖酸钙；氢氧化钙；乳酸钙；磷酸氢钙二水合物-蔗糖聚集物；磷酸氢钙一水合物；磷酸钙，聚卡波非钙；焦磷酸钙；水杨酸钙；硅酸钙；硬脂酸钙；无水硫酸钙；硫酸钙二水合物；硫酸钙半水合物；硫酸钙，考布曲钙

(Calcobutrol)；卡地酰胺钠(Caldiamide Sodium)；钙塞酸三钠(Caloxetate Trisodium)；卡特利多钙(Calteridol Calcium)；加拿大香脂；小烛树蜡；坎地沙坦酯(Candesartan Cilexetil)；芥花油；辛酸/癸酸甘油单酯/甘油二酯；辛酸/癸酸/硬脂酸甘油三酯；辛酸/癸酸/琥珀酸甘油三酯；辛酰基己酰基聚乙二醇甘油酯；辣椒油树脂；克菌丹(Captan)；焦糖；卡波姆1382；卡波姆共聚物B型(烯丙基季戊四醇交联的)；卡波姆均聚物A型(烯丙基季戊四醇交联的)；卡波姆均聚物B型(烯丙基季戊四醇交联的)；卡波姆均聚物B型(烯丙基季戊四醇或烯丙基蔗糖交联的)；卡波姆均聚物C型(烯丙基季戊四醇交联的)；二氧化碳；四氯化碳；羧基乙烯基共聚物；羧甲基淀粉；羧甲基戊基果胶钠；羧甲基纤维素；羧甲基纤维素钙；羧甲基纤维素钠；羧基聚甲烯；洋红；洋红50；巴西棕榈蜡；角叉菜胶；角叉菜胶钙；角叉菜胶钠；(-)-香芹酮；蓖麻油；香柏叶油；纤维醋丁酯；纤维醋法酯；乙酸纤维素；乙酸纤维素Ca-320s；乙酸纤维素Ca-398-10；微晶纤维素/羧甲基纤维素钠；微晶纤维素；氧化纤维素；纤维素聚合物；地蜡(Ceresin)；鲸蜡硬脂醇聚醚-12；鲸蜡硬脂醇聚醚-15；鲸蜡硬脂醇聚醚-30；鲸蜡硬脂醇/鲸蜡硬脂醇聚醚-20；乙基己酸鲸蜡硬脂基酯；鲸蜡醇聚醚-10；鲸蜡醇聚醚-2；鲸蜡醇聚醚-20；鲸蜡醇聚醚-23；鲸蜡硬脂醇；西曲氯铵(Cetrimonium Chloride)；鲸蜡醇；鲸蜡基酯蜡；棕榈酸鲸蜡基酯；西吡氯铵(Cetylpyridinium Chloride)；Chemoderm6401b；樱桃；樱桃汁；中国肉桂油；氯丁醇；氯丁醇半水合物；氯甲酚；氯仿；氯二甲苯酚；胆甾醇；胆甾醇聚醚(Choleth)；胆甾醇聚醚-24；皱波角叉菜(Chondrus Crispus)角叉菜胶；Chromacote T 2700gn；Chromacote T 2716y；Chroma-Kote T2956-Y黄色；环吡酮胺(Ciclopirox Olamine)；肉桂醛；肉桂；肉桂油；柠檬酸一水合物；甜橙(Citrus Sinensis)花油；丁香油；Coateric Ypa-6-7430白色；椰油酰胺醚硫酸盐；椰油胺氧化物；椰油基甜菜碱；椰油基二乙醇酰胺；椰油基单乙醇酰胺；可可；可可油；椰油-辛酸酯/癸酸酯；椰油-甘油酯；椰子油；椰子油-卵磷脂；椰子油/棕榈仁油甘油酯，氢化的；咖啡豆；可乐果；胶原；彩色Hs 290008cr01白色；彩色Icg-U-10251棕色；着色悬浮液；可压榨糖；共聚维酮K25-31；胡妥油；玉米甘油酯；玉米油；玉米油Peg-6酯；玉米糖浆；棉籽油；膏基；肌酸；肌酸酐；甲酚；交联羧甲基纤维素；交联羧甲基纤维素钠；交聚维酮(15Mpa.S，5％)；结晶胶；硫酸铜；无水硫酸铜；Cutina；环己氨磺酸；环甲基硅氧烷(Cyclomethicone)；环甲基硅氧烷5；环甲基硅氧烷/二甲基硅氧烷共聚多元醇；半胱氨酸；半胱氨酸盐酸盐；无水半胱氨酸盐酸盐；Dl-半胱氨酸；D&C黑色2号；D&C蓝色1号色淀；D&C蓝色1号--铝色淀；D&C蓝色2号色淀；D&C蓝色4号；D&C蓝色6号；D&C蓝色9号；D&C棕色1号；D&C绿色3号色淀；D&C绿色5号；D&C绿色6号；D&C橙色4号；D&C红色21号--铝色淀；D&C红色22号；D&C红色27号；D&C红色27号色淀；D&C红色27号--铝色淀；D&C红色28号；D&C红色28号--铝色淀；D&C红色30号；D&C红色30号色淀；D&C红色33号；D&C红色33号色淀；D&C红色36号；D&C红色39号；D&C红色4号色淀；D&C红色40号色淀；D&C红色6号；D&C红色6号钡色淀；D&C红色6号色淀；D&C红色7号；D&C红色7号色淀；D&C紫色2号色淀；D&C黄色10号；D&C黄色10号色淀；D&C黄色10号-铝色淀；D&C黄色10号--铝色淀；D&C黄色11号；D&C黄色5号--铝色淀；D&C黄色6号色淀；Daubert 1-5Pestr(无光泽的)164z；Dc消泡剂Af，研磨1％，于蔗糖上；癸基甲基亚砜；Dehydag Wax Sx；脱氢乙酸；Dehymuls E；苯甲酸地那铵；脱氧胆酸；马来酸右溴苯那敏(Dexbrompheniramine Maleate)；葡聚糖；葡聚糖40；葡萄糖结合剂；改性的糊精；右旋糖一水合物；右旋糖；二乙酰基化的甘油单酯；淀粉糖化酶，麦芽；硅藻土；泛影酸；二偶氮烷基脲；磷酸氢钙二水合物；癸二酸二丁基酯；二氯苄

醇;二氯二氟甲烷;二氯氟甲烷;二氯四氟乙烷;二乙醇胺;邻苯二甲酸二乙酯;焦碳酸二乙酯;癸二酸二乙基酯;二乙基氨基乙基硬脂酰胺磷酸盐;二甘醇单乙基醚;邻苯二甲酸二乙基己基酯**参见Cder指南:在Cder规定的产品中限制使用某些邻苯二甲酸盐(酯)作为赋形剂(Limiting The Use Of Certain Phthalates As Excipients In Cder-Regulated Products);氨基乙酸二羟基铝;碳酸二羟基铝钠;二异丙醇胺;己二酸二异丙基酯;二亚油酸二异丙酯;二异丙基苯并噻唑基-2-亚磺酰胺;二甲基硅氧烷;二甲基硅氧烷100;二甲基硅氧烷1000;二甲基硅氧烷20;二甲基硅氧烷350;二甲基硅氧烷Mdx4-4210;二甲基硅氧烷醇/三甲基甲硅烷氧基硅酸酯交联聚合物(40/60W/W;1000000Pa.S);二甲基异山梨糖醇酐;邻苯二甲酸二甲酯;二甲基亚砜;甲基丙烯酸二甲基氨基乙基酯-甲基丙烯酸丁酯-甲基丙烯酸甲酯共聚物;二甲基二(十八烷基)铵膨润土;二甲基硅氧烷/甲基乙烯基硅氧烷共聚物;地乐酚-铵;Dl-二棕榈酰基磷脂酰基甘油;二戊烯二硫醇;二丙二醇;柠檬酸二钠倍半水合物;椰油两性二乙酸二钠;柠檬酸氢二钠;月桂基聚醚磺基琥珀酸二钠;月桂基磺基琥珀酸二钠;油酰氨基单乙醇胺磺基琥珀酸二钠;磺基水杨酸二钠;地索苯宁(Disofenin);Dl-二硬脂酰基磷脂酰基胆碱;二乙烯基苯苯乙烯共聚物;乙内酰脲;二十二醇;多库酯钠;多库酯钠/苯甲酸钠;Dri Klear;Dri Klear 042;Dri Klear Lv 609527;Dry Flo;Dry-Clear Lv;Duro-Tak 280-2516;Duro-Tak 387-2516;Duro-Tak80-1196;Duro-Tak 87-2070;Duro-Tak 87-2194;Duro-Tak 87-2287;Duro-Tak 87-2296;Duro-Tak 87-2888;Duro-Tak 87-2979;撒布粉;染料米黄色P-1437;染料黑色Lb-1171;染料黑色Lb-442;染料黑色Lb-636;染料黑色Lb-9972;染料黑色氧化物;染料蓝色色淀混合物Lb-1245;染料蓝色色淀混合物Lb-1939;染料蓝色色淀混合物Lb-332;染料蓝色Lakolene;染料蓝色Lb-781;染料棕色色淀;染料棕色色淀混合物;染料棕色色淀混合物Lb-1685;染料棕色色淀混合物Lb-1792;染料棕色Lb-292;染料棕色Lb-464;染料烧焦棕;染料焦糖色105;染料焦糖色耐酸100;染料洋红09349;染料Casing 27-75;染料Chroma-Teric Deb-5037-Ore;染料Chroma-Teric T3000-We;染料Chroma-Teric黄色T3277-Ye;染料Chroma-Tone;染料Chroma-Tone Pddb-8906w;染料Chroma-Tone-P Ddb-8746-Or;染料Dc红色色淀;染料Dc红色Lb 9570号;染料Dc红色Lb Wj-9570;染料Diolack00f32892黄;染料翠绿色Lb;染料翠绿色Lb-9207;染料Fdc黑色Lb260;染料Fdc蓝色10号;染料Fdc蓝色40号Ht色淀;染料Fdc棕色R Lb-56069;染料Fdc绿色Lb-1174;染料Fdc绿色Lb-3323;染料Fdc绿色Lb-9583;染料Fdc Lb483;染料Fdc橙色Lb-452;染料Fdc紫色Lb588;染料Fdc紫色Lb-694;染料葡萄;染料灰色2982号;染料绿色70363;染料绿色Al Lb-265;染料绿色铝Lb;染料绿色色淀混合物Lb-1236;染料绿色色淀混合物Lb-1441;染料绿色色淀混合物Lb-1644;染料绿色色淀混合物Lb-333;染料绿色Lb;染料绿色Lb-1594;染料绿色Lb-1616;染料绿色Lb-279;染料绿色Lb-482;染料绿色Lb-555;染料绿色Lb-603;染料绿色Lb-820;染料绿色Lb-883;染料绿色Pb-1543;染料绿色Pb-1763;染料绿色Pb-1766;染料绿色Pms-579;染料绿色Pr-1333;染料绿色Pr-1339;染料熏衣草;染料熏衣草色淀混合物Lb-1603;染料熏衣草色Lb-1356;染料薄荷绿;染料赭色3506;染料橙色54172;染料橙色色淀混合物3810;染料橙色色淀混合物Lb-1439;染料橙色色淀混合物Lb-1944;染料橙色Lb-1387;染料橙色Lb-715;染料橙色Pb-1657;染料橙色Pb-2148;染料桃色Lb-1576;粉色染料;染料紫色色淀;染料紫色Lb-1902;染料紫色Lb-562;染料紫色Lb-639;染料紫色Lb-694;染料红色Cotolene-P;染料红色色淀混合物6053-R;染料红色Pb-1595;染

料红色R07058;染料鲑鱼肉色Lb-1668;染料光谱喷蓝色50726;染料瑞典橙色2191号;染料褐色Pb-1388;染料Tetrarome橙色;染料蓝绿色Lb-1430;染料紫色;染料白色Coateric Ypa-6-7089;染料白色Cotolene-P;染料白色Tc-1032;染料野樱桃7598;染料黄色70362;染料黄色色淀混合物Lb-1769;染料黄色Lb 104;染料黄色Lb 9706;染料黄色Lb-111;染料黄色Lb-1577;染料黄色Lb-1637;染料黄色Lb-282;染料黄色62号;染料黄色Pb1345;染料黄色Pb-1381;染料黄色Wd-2014;依地酸钙二钠;依地酸二钠;无水依地酸二钠;依地酸钠;依地酸;卵磷脂;羽绒皂(Eiderdown Soap);辛苯氧磺钠(Entsufon);辛苯氧磺钠(Entsufon Sodium);依匹乳糖(Epilactose);差向四环素盐酸盐;异抗坏血酸;赤藓糖醇;香精(Essence)花束9200;香精Fritzbro橙;香精柠檬;香精橙;乙醇胺盐酸盐;乙醚;乙酸乙酯;丙烯酸乙酯和甲基丙烯酸甲酯的共聚物(2:1;750000Mw);乙基麦芽酚;油酸乙酯;香草酸乙酯;乙基香草醛;乙基纤维素(10Mpa.S);乙基纤维素(20Mpa.S);乙基纤维素(4Mpa.S);乙基纤维素(45Mpa.S);乙基纤维素(50Mpa.S);乙基纤维素(7Mpa.S);乙基纤维素;乙烯;乙二醇;乙二醇单乙基醚;乙二胺;乙二胺二盐酸盐;乙烯-丙烯共聚物;乙烯-乙酸乙烯酯共聚物(15%乙酸乙烯酯);乙烯-乙酸乙烯酯共聚物(28%乙酸乙烯酯);乙烯-乙酸乙烯酯共聚物(9%乙酸乙烯酯);乙烯-乙酸乙烯酯共聚物;羟基硬脂酸乙基己基酯;对羟基苯甲酸乙酯;桉油精;桉树油;丁子香酚;依沙美肟(Exametazime);Ext.D&C黄色7号;可食用脂肪;硬脂肪;脂肪酸酯;饱和脂肪酸酯;脂肪酸甘油酯;脂肪酸季戊四醇酯;脂肪酸;脂肪醇柠檬酸酯;脂肪醇;Fd&C蓝色1号;Fd&C蓝色1号色淀;Fd&C蓝色1号--铝色淀;Fd&C蓝色2号;Fd&C蓝色2号--铝色淀;Fd&C绿色3号;Fd&C红色3号;Fd&C红色30号--铝色淀;Fd&C红色3号--铝色淀;Fd&C红色4号;Fd&C红色40号;Fd&C红色40号--铝色淀;Fd&C黄色5号;Fd&C黄色5号--铝色淀;Fd&C黄色6号;Fd&C黄色6号-铝色淀;Fd&C黄色6号--铝色淀;Feculose;氯化铁;氧化铁棕色;氧化铁绿色;氧化铁橙色;氧化铁粉色;氧化铁红色;氧化铁黄色;氧化正亚铁;富马酸亚铁;氧化亚铁;阿魏(Ferula Assa-Foetida)树脂;膜涂料溶液,水性Im-163;Firmenich 51.226/T;调味料18317;调味料57000Iu;调味料57820/A;调味料89-186;调味料89-259;调味料茴芹29653;调味料八角501007Bp0551;调味料苹果西瓜Pfc 9887;调味料杏23067;调味料杏24829;调味料杏桃;调味料Aromalok 182608;调味料Aromalok 262453;调味料香蕉11090;调味料香蕉15223;调味料香蕉501013Ap0551;调味料香蕉59256c;调味料香蕉71507;调味料香蕉74546;调味料香蕉8763;调味料香蕉9.19081;调味料香蕉Durarome 860.095Td09.91;调味料香蕉Fmc23406;调味料香蕉Fn-6713;调味料香蕉Sa84;调味料Bba-47769;调味料浆果柑橘混合物8409;调味料浆果柑橘混合物9621;调味料浆果柑橘混合物9756;调味料浆果水果宾治135846;调味料苦味掩蔽9885;调味料苦味改性剂15555;调味料苦味改性剂36734;调味料苦味改性剂367343;调味料黑樱桃501027Ap0551;调味料黑樱桃825.083;调味料血橙51.226t;调味料血橙Sa;调味料泡泡糖15864;调味料泡泡糖175303;调味料泡泡糖3266p;调味料泡泡糖Mc-4938;调味料焦糖680537;调味料焦糖687817;调味料焦糖994535;调味料奶油香草;调味料奶油薄荷24020;调味料奶油硬糖61oo5-U;调味料奶油硬糖F-1785;调味料C&K混合水果A13688;调味料糖果510155u;调味料Cheri Beri Pcd-5580;调味料Cheri-Beri Pfc-8573;调味料Cheri-Beri Pfc-8580;调味料樱桃104613;调味料樱桃107026;调味料樱桃11539;调味料樱桃11929;调味料樱桃1566;调味料樱桃181612;调味料樱桃213;调味料樱桃231494;调味料樱桃3321;调味料樱桃338614;调

味料樱桃349;调味料樱桃461566;调味料樱桃500910u;调味料樱桃57.679/A;调味料樱桃590271a;调味料樱桃594S.D.;调味料樱桃598384;调味料樱桃825.382;调味料樱桃825.476wc;调味料樱桃842;调味料樱桃8513;调味料樱桃A-22872;调味料樱桃Beri Pfc-8573;调味料樱桃浆果F-1194;调味料樱桃混合物770;调味料樱桃Burgundy 11650;调味料樱桃奶油14850;调味料樱桃Dp300684;调味料樱桃Durarome 860.097Td10.91;调味料樱桃E.P.改性的151;调味料樱桃Ep-3699;调味料樱桃F-232;调味料樱桃Fi-8568;调味料樱桃Fmc 22872;调味料樱桃Fmc 8513;调味料樱桃Fona 825.662;调味料樱桃H&R Pharma 004;调味料樱桃Iff13530912;调味料樱桃L-1233;调味料樱桃甜酒S-3531;调味料樱桃薄荷5073a;调味料樱桃N-2755;调味料樱桃Nv-1489;调味料樱桃Pfc-9768;调味料樱桃阿月浑子Pfc-8450;调味料樱桃R-6556;调味料樱桃香草化合物A77487;调味料樱桃Wixon 3566;调味料樱桃Wl-1093;调味料樱桃Wl-18022;调味料樱桃Wl-4658;调味料樱桃-茴芹Pfc-9758;调味料氯仿103589;调味料巧克力P727;调味料肉桂;调味料肉桂Sd 516;调味料肉桂Veko 3726;调味料柑橘Fn-7176;调味料柑橘/水果果冻1100609500;调味料椰子41;调味料椰子F-3893;调味料焙烤椰子1323pg;调味料可乐Fmc 15740;调味料冷香草Bp18114;调味料冷香草Bp18257;调味料棉花糖30-92-0011;调味料棉花糖F-9967;调味料咳嗽糖浆110257;调味料咳嗽糖浆134681;调味料咳嗽糖浆819;调味料奶油Ep-17688;调味料奶油苏打;调味料奶油香草16345;调味料奶油46971;调味料Creme De薄荷14677;调味料奶油De香草28156;调味料柑桂酒;调味料柑桂酒50.397a;调味料奶油冻52.940/A冷杉;调味料Df-119;调味料Df-1530;调味料E-472;味道增强剂;调味料F-5397a;调味料F-9843;调味料Felton6-R-9;调味料无花果827118;调味料Fona 815.019wc;调味料Fritzsche21028-D;调味料Fritzsche 46215;调味料Fritzsche 73959;调味料Fritzsche 75021;调味料水果01-10428;调味料水果84.6422;调味料水果Fn-6714;调味料水果胶912;调味料水果薄荷75588;调味料水果N&A Ws-605398;调味料水果宾治14761fm;调味料水果宾治28140号;调味料水果宾治716号;调味料水果Tak 20008;调味料金宾治;调味料葡萄054158;调味料葡萄10273;调味料葡萄13403873;调味料葡萄486939;调味料葡萄501040a;调味料葡萄501417c;调味料葡萄59.145/Apo5.51;调味料葡萄59.266/Apo5.51;调味料葡萄61.13252;调味料葡萄6175;调味料葡萄F&F 231460;调味料葡萄Firmenich 587.444;调味料葡萄Firmenich 597.303/C;调味料葡萄Givaudan 433160;调味料葡萄Iff 13549478;调味料葡萄Manheimer522463;调味料葡萄Micron Zd-3876;调味料葡萄Nector Pfc-8599;调味料葡萄Pfc 8439;调味料葡萄Pfc-9711;调味料葡萄Pfc-9924;调味料葡萄St6835/09;调味料瓜拉纳Fmc-15417;调味料Haverstroo Zd49284;调味料Iff Fp 69F;调味料Kiwi S-718;调味料柠檬812;调味料柠檬Fmc-10471;调味料柠檬Givaudan 74940-74;调味料柠檬酸橙Sd935;调味料柠檬薄荷862.547;调味料柠檬薄荷Fritzsche 54369;调味料柠檬N&A 397;调味料柠檬喷雾V3938-1n1;调味料Magnasweet110;调味料Mandarin 15228-71;调味料Maque树377(Bush);调味料掩蔽Rbt-Nv-7759;调味料掩蔽剂Fn-6819;调味料掩蔽剂Fn-6820;调味料掩蔽35321;调味料掩蔽剂141.18074;调味料掩蔽Tak-031431;调味料Mcp柠檬Duramone 4409a;调味料Mcp酸橙Duramone 6419;调味料薄荷醇875.017;调味料薄荷醇薄荷Pfc-9926;调味料薄荷醇Tak-020184;调味料薄荷醇Veralock;调味料薄荷287;调味料薄荷501359;调味料薄荷51296Tp0551;调味料薄荷Sn027513;调味料混合水果Pfc-9970;调味

料橙子002.120;调味料橙子13334;调味料橙子249792;调味料橙子501071Ap0551;调味料橙子57.458/Ap05.51;调味料橙子607217;调味料橙子739k(Pb82);调味料橙子74016-71;调味料橙子9/79j839;调味料橙子香蕉Wl-18093;调味料血橙Silician Fn-12235;调味料橙子G-10431;调味料橙子Givaudan 74388-74;调味料橙子7679号;调味料橙子P-5614;调味料橙子Pfw-730016u;调味料橙子菠萝Fv-43;调味料橙子Wonf 608352;调味料Orbit Serene20340;调味料桃10457;调味料桃13503584;调味料桃23070;调味料桃302789;调味料桃57695;调味料桃薄荷Fritzsche 106109;调味料桃菠萝Fmc 14258;调味料胡椒薄荷104;调味料胡椒薄荷131989;调味料胡椒薄荷501500;调味料胡椒薄荷517;调味料胡椒薄荷894.115;调味料胡椒薄荷894.143;调味料胡椒薄荷Art F-10012;调味料胡椒薄荷提取物Fn-2356;调味料胡椒薄荷F94249;调味料胡椒薄荷K373;调味料胡椒薄荷Pfc 9927;调味料胡椒薄荷Seelock 34907;调味料胡椒薄荷Sn583865;调味料胡椒薄荷Stick Fmc 16170;调味料胡椒薄荷Tak-022173;调味料胡椒薄荷Wl-6167;调味料胡椒薄荷,天然Spraylene;调味料Perlarom草莓;调味料药物182608;调味料Pharmasweet 10772900;调味料菠萝182661;调味料菠萝501085;调味料菠萝N-2566;调味料菠萝N-2766;调味料菠萝-椰子;调味料Prosweet 694;调味料宾治610962u;调味料宾治Wl-7126;调味料覆盆子1840;调味料覆盆子21028d;调味料覆盆子262085;调味料覆盆子28106;调味料覆盆子50776;调味料覆盆子65934;调味料覆盆子8456;调味料覆盆子954;调味料覆盆子954k(Bk77);调味料覆盆子998;调味料覆盆子A11693;调味料覆盆子Arome Pfc-9908;调味料覆盆子奶油Pfc-9950;调味料覆盆子D9599;调味料覆盆子Dy-04447;调味料覆盆子F-1784;调味料覆盆子F-1840;调味料覆盆子F-6887-S;调味料覆盆子Pfc-8407;调味料波兰覆盆子5000064;调味料Refrachessment Fd-8027d;调味料Rhodia药物Rf 451号;调味料Rob Nv-23027;调味料根汁汽水180339;调味料草莓052311Ap0551;调味料草莓11545;调味料草莓133.5655;调味料草莓14953;调味料草莓17.36.8509;调味料草莓17c56217;调味料草莓52.311ap;调味料草莓5210(Fd&D);调味料草莓52312/A;调味料草莓52312/Ap0551;调味料草莓55058;调味料草莓5951;调味料草莓9843;调味料草莓香蕉24020;调味料草莓奶油11407-33;调味料草莓奶油Phl-131991;调味料草莓Dy-04359;调味料草莓F-5665;调味料草莓F-5930-A;调味料草莓Fn-13819;调味料草莓瓜拉纳586.997/Apo5.51;调味料草莓Microseal;调味料草莓Pfc-9626;调味料草莓Phs-132962;调味料草莓Trusil Windsor 2373031;调味料草莓Wd Fo-1022;调味料草莓Wl-16650;调味料甜食24052;调味料甜食604978;调味料甜食Tone28837;调味料甜食-Am 918.005;调味料甜味增强剂5401b;调味料橘子Fritzsche 51465;调味料Tetrarome;调味料Tm 313298;调味料Tpf135;调味料Tpf 143;调味料热带混合Fv-50;调味料热带水果宾治1591;调味料热带水果宾治N&A 50432;调味料Tutti Frutti 0002028;调味料Tutti Frutti 24093fm;调味料Tutti Frutti 501.103/A;调味料Tutti Frutti 51.880/Ap05.51;调味料Tutti Frutti P-5400;调味料Tutti Frutti Wl-18481;调味料香草20.4573.5p Pha;调味料香草323453;调味料香草33869;调味料香草501441Ap2004;调味料香草C7984;调味料香草F-6257;调味料香草橙子;调味料香草P-1160;调味料香草Pfc-8541;调味料香草Pfc-9772;调味料Veralock泡泡糖;调味料野樱桃29653;调味料野樱桃695047u;调味料野樱桃Givaudan F-1813;调味料野樱桃K-321;调味料野樱桃Nv-101-1489;调味料野樱桃Pfc-14783;调味料野樱桃Wl-1093;调味料冬青Pfc-

8421;调味料黄色李子柠檬39k 020;Florasynth;面粉;荧光素;氟氯烃;甲醛;磷维塞(Fosveset);香料(Fragrance)3949-5;香料520a;香料6.007;香料91-122;香料9128-Y;香料93498g;香料松香脂;香料松香脂5124号;香料花束10328;香料Chemoderm 6401-B;香料Chemoderm 6411;香料奶油;香料奶油73457号;香料Cs-28197;香料Felton 066m;香料Firmenich 47373;香料Givaudan Ess 9090/1c;香料H-6540;香料草本10396;香料Nj-1085;香料P O Fl-147;香料Pa 52805;香料Pera Derm D;香料Rbd-9819;香料Shaw Mudge U-7776;香料Tf 044078;香料Ungerer忍冬K 2771;香料Ungerer N5195;果糖;富马酸;富马酰基二酮哌嗪;氧化钆;半乳糖;γ环糊精;明胶;明胶200Bloom;硬明胶胶囊;猪肉明胶A型;交联的明胶;明胶海绵;结冷胶(低酰基);Gelucire 33/01;Gelva 737;龙胆酸;龙胆酸乙醇酰胺;龙胆酸乙醇胺;姜;葡庚糖酸钠;葡庚糖酸钠二水合物;葡糖酸内酯;葡糖醛酸;谷氨酸盐酸盐;Dl-谷氨酸;谷胱甘肽;甘油;甘油聚合物溶液I-137;甘油聚合物溶液Im-137;氢化松香的甘油酯;1-硬脂酸甘油酯;山嵛酸甘油酯(Glyceryl Behenate/Eicosadioate);辛酸甘油酯;二山嵛酸甘油酯;二硬脂酸甘油酯;异硬脂酸甘油酯;月桂酸甘油酯;单硬脂酸甘油酯;油酸甘油酯;油酸甘油酯/丙二醇;棕榈酸甘油酯;棕榈酸硬脂酸甘油酯;蓖麻醇酸甘油酯;硬脂酸甘油酯-月桂基聚氧乙烯醚-23;硬脂酸甘油酯Se;硬脂酸甘油酯/Peg硬脂酸酯;硬脂酸甘油酯/Peg-100硬脂酸酯;硬脂酸甘油酯/Peg-40硬脂酸酯;硬脂酸甘油酯-硬脂酰氨基乙基二乙胺;三油酸甘油酯;甘氨酸;甘氨酸盐酸盐;二硬脂酸乙二醇酯;硬脂酸乙二醇酯;甘草甜素;绿淀粉混合物;胍盐酸盐;瓜尔胶;几内亚绿B;咀嚼胶基质;护发素(18n195-1m);庚烷;羟乙基淀粉;己烷;己二醇;己基间苯二酚;高密度聚乙烯;高果糖玉米糖浆;组氨酸;大豆蔻属枫桦(Hornstedtia Costata)种子;人白蛋白微球;透明质酸钠;烃类;增塑的烃类胶;盐酸;氢化可的松;水凝胶聚合物;过氧化氢;氢化蓖麻油;氢化椰子油;氢化棉籽油;氢化棕榈油;氢化棕榈/棕榈仁油Peg-6酯;氢化聚丁烯635-690;氢化大豆卵磷脂;氢化大豆油;氢化淀粉水解产物;氢化牛脂酸;水解的大豆蛋白(酶促;2000Mw);羟乙基纤维素;羟乙基纤维素(140Mpa.S At 5%);羟乙基纤维素(5000Mpa.S At 1%);羟乙基哌嗪乙烷磺酸;羟甲基纤维素;羟基硬脂酸羟基二十八烷醇酯;羟基孕酮己酸酯;羟丙基β-环糊精;羟丙基γ-环糊精;羟丙基纤维素(H型);羟丙基纤维素(L型);低取代的羟丙基纤维素;羟丙甲纤维素2208(100Mpa.S);羟丙甲纤维素2208(100000Mpa.S);羟丙甲纤维素2208(15000Mpa.S);羟丙甲纤维素2208(3Mpa.S);羟丙甲纤维素2208(4000Mpa.S);羟丙甲纤维素2208(60000Mpa.S);羟丙甲纤维素2906(4000Mpa.S);羟丙甲纤维素2910(15Mpa.S);羟丙甲纤维素2910(15000Mpa.S);羟丙甲纤维素2910(3Mpa.S);羟丙甲纤维素2910(4000Mpa.S);羟丙甲纤维素2910(5Mpa.S);羟丙甲纤维素2910(50Mpa.S);羟丙甲纤维素2910(6Mpa.S);羟丙甲纤维素乙酸酯琥珀酸酯;羟丙甲纤维素乙酸酯琥珀酸酯06081224(3Mm2/S);羟丙甲纤维素邻苯二甲酸酯;羟丙甲纤维素邻苯二甲酸酯(24%邻苯二甲酸酯,55Cst);羟丙甲纤维素邻苯二甲酸酯(31%邻苯二甲酸酯,40Cst);羟丙甲纤维素;Hystrene;艾考糊精;咪脲;靛蓝二磺酸钠;油墨黑色2271;油墨黑色A-10464;油墨黑色A-10527;油墨黑色Fge-1386;油墨黑色Gg-606;油墨黑色S-1-8100-Hv;油墨黑色Sw-9007;油墨黑色Sw-9008;油墨黑色Sw-9009;油墨黑色Sw-9010;油墨蓝色和黄色压印Gg-823;油墨蓝黑色A-10463;油墨蓝黑色A-9371;油墨蓝色S-1-10551;油墨蓝色S-1-4118;油墨蓝色Tek Print Sb-6029;油墨蓝色Tekprint Sb-6008;油墨蓝色Videojet V496-D;油墨暗黄色和黄

色压印Gg-824;油墨可食用黑色;油墨可食用蓝色;油墨可食用棕色;油墨可食用灰色;油墨可食用橙色;油墨可食用粉色;油墨可食用红色;油墨可食用红色A-8032;油墨可食用白色;油墨细黑色2202c;油墨细黑色2212;油墨弹性印刷粉色;油墨绿色A-10454;油墨绿色A-10629;油墨橙色和黄色压印Gg-822;油墨粉色压印Sb-1003;油墨紫色Tekprint Sb-7007;油墨红色5-1-9034;油墨红色A-8032;油墨红色和浅绿色压印Gg-827;油墨红色和焦糖色压印Gg-825;油墨红色压印Gg-826;油墨S-1-7085;油墨稀释剂;油墨白色A-8154;油墨白色S-1-7075;油墨白色Sb-0007p;油墨白色Sw-0012;油墨白色Tek Print Sb-007p;油墨/聚对苯二甲酸乙二醇酯/铝/聚乙烯/聚甲基丙烯酸钠/乙烯乙酸乙烯酯共聚物;转化糖;转化糖浆介质;碘苄胍(Iobenguane);碘;碘沙酸(Iodoxamic Acid);碘非他胺(Iofetamine)盐酸盐;氧化铁米黄色;异丁烷;异丁醇;异鲸蜡醇聚醚-20;异亮氨酸;异麦芽糖醇;丙烯酸异辛酯;丙烯酸异辛酯/丙烯酰胺/乙酸乙烯酯共聚物,Kollidon Va 64聚合物;异丙醇;异硬脂酸异丙酯;肉豆蔻酸异丙酯;肉豆蔻酸异丙酯-肉豆蔻醇;棕榈酸异丙酯;硬脂酸异丙酯;异硬脂酸;异硬脂醇;Jelene;高岭土(Kaolin);卡拉牙胶;Karion 83(D-山梨糖醇含量19-25%);Kathon Cg;Kathon Cg Ii;Dl-乳酸;L-乳酸;乳酸;乳糖醇一水合物;乳糖酸;牛乳铁蛋白;乳糖一水合物;乳糖一水合物-微晶纤维素;乳糖;羊毛脂醇聚醚;羊毛脂;羊毛脂醇-矿物油;羊毛脂醇;羊毛脂胆甾醇;羊毛脂非离子衍生物;乙氧基化的羊毛脂;劳拉氯铵(Lauralkonium Chloride);月桂基胺氧化物;月桂基二甲基铵水解的动物胶原;月桂基聚氧乙烯醚硫酸盐;月桂基聚氧乙烯醚-2;月桂基聚氧乙烯醚-23;月桂基聚氧乙烯醚-4;月桂酸二乙醇酰胺;月桂酸二乙醇酰胺/肉豆蔻酸二乙醇酰胺;月桂酰基聚氧基甘油酯;月桂酰基肌氨酸;乳酸月桂基酯;月桂基硫酸盐;薰衣草(Lavandula Angustifolia)花顶部;卵磷脂;未漂白的卵磷脂;大豆卵磷脂;柠檬油;亮氨酸;左旋薄荷醇;乙酰丙酸;利多苯宁(Lidofenin);浅绿色Cf浅黄;轻质矿物油;挥发油(Ligroin);石灰(氧化钙);酸橙油;柠檬烯,(+/-)-;亚油酰基聚乙二醇甘油酯;Lipocol Sc-15;液化石油气;槐豆胶;Lubritab;Ludipress;赖氨酸;赖氨酸乙酸盐;赖氨酸一水合物;乙酸镁;硅酸铝镁;Iia型硅酸铝镁;天冬氨酸镁;碳酸镁;氯化镁;柠檬酸镁;氢氧化镁;硝酸镁;氧化镁;正磷酸镁五水合物;硅酸镁;硬脂酸镁;无水硫酸镁;硫酸镁;酒石酸镁;三硅酸镁;马来酸;苹果酸;L-苹果酸;麦芽糖醇;麦芽糖糊精;麦芽酚;麦芽糖;无水麦芽糖;橘油(Mandarin Oil);甘露糖醇;D-甘露糖;Maprofix;甲溴菲宁(Mebrofenin);医疗消泡剂乳剂C;医疗消泡剂A-F乳剂;中链甘油三酯;亚甲基二膦酸二氢二钠(Medronate Disodium);亚甲基二膦酸(Medronic Acid);葡甲胺;Melojel;薄荷醇;间甲酚;皂黄(Metanil Yellow);偏磷酸;甲基丙烯酸;甲基丙烯酸-丙烯酸乙酯共聚物(1:1)A型;甲基丙烯酸-甲基丙烯酸甲酯共聚物(1:1);甲基丙烯酸-甲基丙烯酸甲酯共聚物(1:2);甲基丙烯酸共聚物;甲磺酸;蛋氨酸;甲氧基Peg-16;丙烯酸甲酯-甲基丙烯酸甲酯;甲醇;氯甲烷;甲基乙基酮;甲基葡糖醇聚醚-10;甲基葡糖醇聚醚-20;甲基葡萄糖倍半硬脂酸酯;甲基羟乙基纤维素;月桂酸甲酯;甲基吡咯烷酮;水杨酸甲酯;硬脂酸甲酯;甲基化酒精;甲基硼酸;甲基纤维素(15Mpa.S);甲基纤维素(1500Mpa.S);甲基纤维素(400Mpa.S);甲基纤维素(4000Mpa.S);甲基纤维素;甲基氯异塞唑啉酮;亚甲蓝;二氯甲烷;甲基异塞唑啉酮;对羟基苯甲酸甲酯;对羟基苯甲酸甲酯钠;哌甲酯;微晶蜡;奶蛋白质浓缩物;矿物油;米吡氯铵;米索前列醇(Misoprostol);Mistron喷雾滑石;改性玉米淀粉(1-辛烯基琥珀酸酐);甘油单酯和甘油二酯;单乙醇胺;柠檬酸甘油单酯;甘油单酯;柠檬酸单钠;

谷氨酸单钠;柠檬酸单硬脂基酯;单硫代甘油;褐煤蜡;多甾醇提取物;麝香葡萄酒;肉豆蔻酸;肉豆蔻醇;乳酸肉豆蔻基酯;Myvacet 5-00型;N-(羰基-甲氧基聚乙二醇2000)-1,2-二硬脂酰基-Sn-甘油基-3-磷酸乙醇胺;N-(羰基-甲氧基聚乙二醇2000)-二硬脂酰基-甘油磷酸乙醇胺,钠盐;N,N-二甲基乙酰胺;石脑油;萘酚蓝黑;新橙皮苷二氢查耳酮;纽甜;中性油;烟酰胺;1,2-环己二酮二肟(Nioxime);Nipasep;Nipastat;硝酸;氮;壬苯醇醚碘;壬苯醇醚-15;壬苯醇醚-9;那普瑞尔种子(Non-Pareil Seeds);那普瑞尔种子蓝色;那普瑞尔种子橙色;那普瑞尔种子白色;炔诺酮(Norethindrone);诺氟烷(Norflurane);肉豆蔻油;燕麦片;十八碳烯-1/马来酸共聚物;辛酸;辛水杨酯;辛苯聚醇-1;辛苯聚醇-40;辛苯聚醇-9;奥曲肽(Octreotide);辛基十二醇;辛基苯酚聚甲烯;奶油苏打油;橙子油Ss;氢化油;油酸;油基聚氧乙烯醚-10/油基聚氧乙烯醚-5;油基聚氧乙烯醚-2;油基聚氧乙烯醚-20;油烯基醇;油酸油烯基酯;油烯基聚乙二醇甘油酯;橄榄油;Opacoat Na2123;Opacoat Na2203;Opacoat Na4108蓝色;Opacoat Na4711熏衣草色;Opacoat Na7013透明;Opacode A-10450黑色;Opacode A-10509黑色;Opacode Ns-78-10013-N;Opacode Ns-78-17502灰色;Opacode Ns-78-17821Wb黑色;Opacode Ns-78-8000黑色;Opacode Ns-78-8001;Opacode Nsp-78-17734黑色;Opacode S-1-13001橙色;Opacode S-1-15034-Fd红色;Opacode S-1-15038红色;Opacode S-1-16507;Opacode S-1-1666红色;Opacode S-1-1666-M红色;Opacode S-1-1681红色;Opacode S-1-17706黑色;Opacode S-1-17711黑色;Opacode S-1-17734黑色;Opacode S-1-17749黑色;Opacode S-1-17762黑色;Opacode S-1-17797黑色;Opacode S-1-17822黑色;Opacode S-1-17823黑色;Opacode S-1-18025白色;Opacode S-1-26514棕色;Opacode S-1-27794黑色;Opacode S-1-3110绿色;Opacode S-1-3171绿色;Opacode S-1-4124蓝色;Opacode S-1-4157;Opacode S-1-4159黑色;Opacode S-1-4160蓝色;Opacode S-1-4172蓝色;Opacode S-1-4172m蓝色;Opacode S-1-4362;Opacode S-1-7020;Opacode S-1-7077;Opacode S-1-7078;Opacode S-1-7085白色;Opacode S-1-7090白色;Opacode S-1-800hv黑色;Opacode S-1-8025黑色;Opacode S-1-8081黑色;Opacode S-1-8090黑色;Opacode S-1-8092黑色;Opacode S-1-8093黑色;Opacode S-1-8094黑色;Opacode S-1-8095;Opacode S-1-8100-Hv黑色;Opacode S-1-8105黑色;Opacode S-1-8106黑色;Opacode S-1-8109黑色;Opacode S-1-8110黑色;Opacode S-1-8114黑色;Opacode S-1-8115黑色;Opacode S-1-8152hv黑色;Opacode S-1-8814黑色;Opacode S-1-8815黑色;Opacode S-1-9009棕色;Opacode S-1-9032;Opacode S-1-9037棕色;Opacode S-1-9048c;Opacode S-1-9460hv棕色;Opacode S-19-7014白色;Opacode S-8-20931;Opacode Sb-4028绿色;Opacode Wb Ns-78-10521蓝色;Opacode Wb Ns-78-17715黑色;Opacode Wb Ns-78-18001白色;Opacode Wb Nsp-78-18022白色;Opadry 00a28646;Opadry 00b53815橙色;Opadry00b57513灰色;Opadry 00f44042红色;Opadry 02a82904黄色;Opadry02b14941粉色;Opadry 02b22429黄色;Opadry 02b32413黄色;Opadry02b58839白色;Opadry 02b94016粉色;Opadry 02f34337粉色;Opadry02f54181粉色;Opadry 02g22555黄色;Opadry 02g24523粉色;Opadry02g26637棕色;Opadry 02g28619白色;Opadry 02g59011透明;Opadry02-H-22703黄色;Opadry 03a 58900白色;Opadry 03a14309粉色;Opadry 03b11434绿色;Opadry 03b12878黄色;Opadry 03b12896黄色;Opadry 03b12914黄色;Opadry 03b14424粉色;Opadry 03b14436粉色;Opadry 03b14899粉色;Opadry

03b16083栗色;Opadry 03b17426米黄色;Opadry 03b17495米黄色;Opadry 03b17618灰色;Opadry 03b20024紫色;Opadry 03b20556蓝色;Opadry 03b21517绿色;Opadry 03b22426黄色;Opadry 03b23523橙色;Opadry 03b24562桃色;Opadry 03b28796白色;Opadry 03b32034黄色;Opadry 03b34239粉色;Opadry 03b34399粉色;Opadry 03b50899蓝色;Opadry 03b510003绿色;Opadry 03b53850橙色;Opadry 03b54138粉色;Opadry 03b54180粉色;Opadry 03b54504粉色;Opadry 03b54573粉色;Opadry 03b54588粉色;Opadry 03b54955粉色;Opadry 03b56518棕色;Opadry 03b56982棕色;Opadry 03b57310棕色;Opadry 03b57520灰色;Opadry 03b57631灰色;Opadry 03b58902白色;Opadry 03b58930白色;Opadry 03b58965白色;Opadry 03b68903白色;Opadry 03b80829蓝色;Opadry 03b80969蓝色;Opadry 03b82316黄色;Opadry 03b82419黄色;Opadry 03b82836黄色;Opadry 03b82849黄色;Opadry 03b82943黄色;Opadry 03b84681粉色;Opadry 03b84755粉色;Opadry 03b86585棕色;Opadry 03b86625棕色;Opadry 03b86636棕色;Opadry 03b86737棕色;Opadry 03b86811棕色;Opadry 03b86891棕色;Opadry 03b86892棕色;Opadry 03c34219粉色;Opadry 03f12920黄色;Opadry 03f12967黄色;Opadry 03f13325橙色;Opadry 03f14895粉色;Opadry 03f42192黄色;Opadry 03f43159棕色;Opadry 03f51681绿色;Opadry 03f540000粉色;Opadry 03f54568粉色;Opadry 03f565001棕色;Opadry 03f57311棕色;Opadry 03f58741白色;Opadry 03f58991白色;Opadry 03f59016透明;Opadry 03f82329黄色;Opadry 03f82604黄色;Opadry 03f82726黄色;Opadry 03f82788黄色;Opadry 03f84641粉色;Opadry 03f84782粉色;Opadry 03f84793粉色;Opadry 03f86762棕色;Opadry 03f86776棕色;Opadry 03f86845棕色;Opadry 03f86990棕色;Opadry 03g24389粉色;Opadry 03g82464黄色;Opadry 03g82490黄色;Opadry 03j18312白色;Opadry 03k14881粉色;Opadry 03k29121透明;Opadry 03k50891蓝色;Opadry 03k51211绿色;Opadry 03k52543黄色;Opadry 03k54121粉色;Opadry 03k80846蓝色;Opadry 04e28779白色;Opadry 04f50603蓝色;Opadry 04f50702蓝色;Opadry 04f51279绿色;Opadry 04f52565黄色;Opadry 04f53544橙色;Opadry 04f58804白色;Opadry 05b10446紫色;Opadry 05b10457紫色;Opadry 05b11552绿色;Opadry 05b11781绿色;Opadry 05b12337黄色;Opadry 05b15325红色;Opadry 05b17055褐色;Opadry 06f32500黄色;Opadry 06f34520粉色;Opadry 06f34521橙色;Opadry 06f34522粉色;Opadry 06f34523粉色;Opadry 12b58900白色;Opadry 12f20984蓝色;Opadry 12f21129绿色;Opadry 12f22609黄色;Opadry 12j18255白色;Opadry 13b50159紫色;Opadry 13b50780蓝色;Opadry 13b51260绿色;Opadry 13b52329黄色;Opadry 13b58802白色;Opadry 13b58894白色;Opadry 13b80922蓝色;Opadry 13b82555黄色;Opadry 13f51381绿色;Opadry 13f52194黄色;Opadry 13f52195黄色;Opadry 13f54198粉色;Opadry 13f58866白色;Opadry 13h52750黄色;Opadry 13h52754黄色;Opadry 13h54756粉色;Opadry 13h54757粉色;Opadry 13k52177黄色;Opadry13m530001橙色;Opadry 13m565001棕色;Opadry 13m86920棕色;Opadry 15b110003绿色;Opadry 15b11947绿色;Opadry 15b13335橙色;Opadry 15b20780蓝色;Opadry 15b21340绿色;Opadry 15b22275黄色;Opadry 15b24473粉色;Opadry 15b24879粉色;Opadry 15b28665白色;Opadry 15b50612蓝色;Opadry 15b52000黄色;Opadry 15b52070黄色;Opadry 15b53449橙色;Opadry

15b58810白色;Opadry 15b86703棕色;Opadry 15b91211绿色;Opadry 15b92484黄色;Opadry 15b96558棕色;Opadry 16b38982白色;Opadry 16b5900黄色;Opadry 20014832粉色;Opadry 20a28569白色;Opadry 20a52229黄色;Opadry 20a52560黄色;Opadry 20a52900黄色;Opadry 20a54211粉色;Opadry 20a54239粉色;Opadry 20a54614粉色;Opadry 20a54616粉色;Opadry 20a54900粉色;Opadry 20a54901粉色;Opadry 20a56500棕色;Opadry 20a56694棕色;Opadry 20a56788棕色;Opadry 20a58806白色;Opadry 20a58916白色;Opadry 20a59015透明;Opadry 20a91487绿色;Opadry 20a99171蓝色;Opadry 20a99172蓝色;Opadry 20b11521绿色;Opadry 20b17583灰色;Opadry 20b50135紫色;Opadry 20b50184紫色;Opadry 20b97160米黄色;Opadry 20c15347红色;Opadry 20h52619黄色;Opadry20h58983白色;Opadry 21k84964粉色;Opadry 31f20963蓝色;Opadry31f32870黄色;Opadry 32f540014粉色;Opadry 32k14834粉色;Opadry32k23123橙色;Opadry 33g12976黄色;Opadry 33g25171砖红色;Opadry 40l14278粉色;Opadry 80w12319黄色;Opadry 80w22657Amb黄色;Opadry 80w-93032Amb橙色;Opadry 85f14999粉色;Opadry85f19250透明;Opadry 85f21445绿色;Opadry 85f21446绿色;Opadry85f21450绿色;Opadry 85g689183白色;Opadry 85g93096橙色;Opadry Amb 80w52110黄色;Opadry Amb 80w62680黄色;Opadry Amb80w62681黄色;Opadry Amb 80w64837粉色;Opadry Amb 80w68912白色;Opadry Amb Oy-B-28920白色;Opadry I 03b22409黄色;OpadryI 03b23197橙色;Opadry I 03b24658粉色;Opadry Ii 03b10903蓝色;Opadry Ii 30f84515粉色;Opadry Ii 31f22088黄色;Opadry Ii 31f23111橙色;Opadry Ii 31f24128粉色;Opadry Ii 31f24239粉色;Opadry Ii31f27625灰色;Opadry Ii 31f32090黄色;Opadry Ii 31f58914白色;Opadry Ii 31k34575粉色;Opadry Ii 31k34581粉色;Opadry Ii 31k52633黄色;Opadry Ii 31k84972粉色;Opadry Ii 32b10817蓝色;Opadry Ii32f28553白色;Opadry Ii 32f505001蓝色;Opadry Ii 32f540002粉色;Opadry Ii 32f540012粉色;Opadry Ii 32f58900白色;Opadry Ii 32f84835粉色;Opadry Ii 32k10054紫色;Opadry Ii 32k12160黄色;Opadry Ii32k12884黄色;Opadry Ii 32k12942黄色;Opadry Ii 32k12968黄色;Opadry Ii 32k13357橙色;Opadry Ii 32k13699橙色;Opadry Ii 32k14826粉色;Opadry Ii 32k14827粉色;Opadry Ii 32k14833粉色;Opadry Ii32k15649红色;Opadry Ii 32k16706棕色;Opadry Ii 32k17089褐色;Opadry Ii 32k17573灰色;Opadry Ii 33f28627白色;Opadry Ii 33g10148紫色;Opadry Ii 33g10907蓝色;Opadry Ii 33g11635绿色;Opadry Ii33g11938绿色;Opadry Ii 33g28435白色;Opadry Ii 33g28707白色;Opadry Ii 33g32605黄色;Opadry Ii 33g34594粉色;Opadry Ii 33g92112黄色;Opadry Ii 39b18529白色;Opadry Ii 40L14235粉色;Opadry Ii 40L17589灰色;Opadry Ii 40014876粉色;Opadry Ii 40b12994米黄色;Opadry Ii 40b97172黄色;Opadry Ii 40c10881蓝色;Opadry Ii 40c13396橙色;Opadry Ii 40c18303白色;Opadry Ii 40l10412紫色;Opadry Ii40l10884蓝色;Opadry Ii 40l11438绿色;Opadry Ii 40l11588绿色;Opadry Ii 40l12917黄色;Opadry Ii 40l12979黄色;Opadry Ii 40l13950橙色;Opadry Ii 40l14190粉色;Opadry Ii 40l14336粉色;Opadry Ii40l14836粉色;Opadry Ii 40l17427米黄色;Opadry Ii 40l17587灰色;Opadry Ii 40l92058黄色;Opadry Ii 40l93159橙色;Opadry Ii 40o93122橙色;Opadry Ii 45f22481黄色;Opadry Ii 45f24512

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Y-5-2086黄色;Opadry Y-5-2312黄色;Opadry Y-5-2328橙色;Opadry Y-5-2371橙色;Opadry Y-5-2394橙色;Opadry Y-5-2450橙色;Opadry Y-5-2644米黄色;Opadry Y-5-2646米黄色;Opadry Y-5-3140绿色;Opadry Y-5-3171绿色;Opadry Y-5-3193绿色;Opadry Y-5-3296绿色;Opadry Y-5-4129蓝色;Opadry Y-5-4270蓝色;Opadry Y-5-4287蓝色;Opadry Y-5-4295蓝色;Opadry Y-5-6233浅橙色;Opadry Y-5-6301黄色;Opadry Y-5-6308;Opadry Y-5-7058白色;Opadry Y-5-7068白色;Opadry Y-5-7072白色;Opadry Y-5-7524灰色;Opadry Y-5-8050黑色;Opadry Y-5-9006棕色;Opadry Y-5-9020棕色;Opadry黄色;Opadry Yps-7-2127;Opadry Ys-1-003白色;Opadry Ys-1-10010紫色;Opadry Ys-1-10291熏衣草色;Opadry Ys-1-10523a蓝色;Opadry Ys-1-10525蓝色;Opadry Ys-1-10533a;Opadry Ys-1-10542a蓝色;Opadry Ys-1-10547a蓝色;Opadry Ys-1-10563蓝色;Opadry Ys-1-10613a蓝色;Opadry Ys-1-10618;Opadry Ys-1-10629;Opadry Ys-1-10654a蓝色;Opadry Ys-1-10682蓝色;Opadry Ys-1-10690a蓝色;Opadry Ys-1-10699蓝色;Opadry Ys-1-10745蓝色;Opadry Ys-1-10748a浅蓝色;Opadry Ys-1-10755蓝色;Opadry Ys-1-10783a蓝色;Opadry Ys-1-11000粉色;Opadry Ys-1-11051绿色;Opadry Ys-1-11060绿色;Opadry Ys-1-1107绿色;Opadry Ys-1-11075a绿色;Opadry Ys-1-11113绿色;Opadry Ys-1-11171绿色;Opadry Ys-1-11234绿色;Opadry Ys-1-11305绿色;Opadry Ys-1-11369绿色;Opadry Ys-1-1246粉色;Opadry Ys-1-1252粉色;Opadry Ys-1-12524a黄色;Opadry Ys-1-12525a黄色;Opadry Ys-1-12526a黄色;Opadry Ys-1-12529黄色;Opadry Ys-1-12541黄色;Opadry Ys-1-1256-A黄色;Opadry Ys-1-12573黄色;Opadry Ys-1-12581黄色;Opadry Ys-1-1262粉色;Opadry Ys-1-12625黄色;Opadry Ys-1-12702a黄色;Opadry Ys-1-12726a黄色;OpadryYs-1-12732黄色;Opadry Ys-1-1277粉色;Opadry Ys-1-12789黄色;Opadry Ys-1-12826黄色;Opadry Ys-1-1283粉色;Opadry Ys-1-12844黄色;Opadry Ys-1-12847黄色;Opadry Ys-1-1298粉色;Opadry Ys-1-13013桃色;Opadry Ys-1-13065a橙色;Opadry Ys-1-13119橙色;Opadry Ys-1-13121黄色;Opadry Ys-1-13148a橙色;Opadry Ys-1-13214橙色;Opadry Ys-1-13269橙色;Opadry Ys-1-13271橙色;Opadry Ys-1-13555橙色;Opadry Ys-1-13591a橙色;Opadry Ys-1-13664a橙色;Opadry Ys-1-13673a橙色;Opadry Ys-1-13675a橙色;Opadry Ys-1-14012粉色;Opadry Ys-1-14129粉色;Opadry Ys-1-14130粉色;Opadry Ys-1-14142粉色;Opadry Ys-1-1418粉色;Opadry Ys-1-1441g;Opadry Ys-1-1448g粉色;Opadry Ys-1-14518a粉色;Opadry Ys-1-14519a粉色;Opadry Ys-1-14532粉色;Opadry Ys-1-1454粉色;Opadry Ys-1-14555a粉色;Opadry Ys-1-14559粉色;Opadry Ys-1-1456g粉色;Opadry Ys-1-14587a粉色;Opadry Ys-1-14593a粉色;Opadry Ys-1-14595粉色;Opadry Ys-1-14608a;Opadry Ys-1-14643a粉色;Opadry Ys-1-14725粉色;Opadry Ys-1-14756a粉色;Opadry Ys-1-14779a粉色;Opadry Ys-1-15050红色;Opadry Ys-1-1510粉色;Opadry Ys-1-1528粉色;Opadry Ys-1-1543粉色;Opadry Ys-1-15585a红色;Opadry Ys-1-16002栗色;Opadry Ys-1-16518a棕色;Opadry Ys-1-17169a;Opadry Ys-1-17180a米黄色;Opadry Ys-1-17181a米黄色;Opadry Ys-1-17192a;Opadry Ys-1-17209米黄色;Opadry Ys-1-17220;Opadry Ys-1-17222a褐色;Opadry Ys-1-17235a桃色;Opadry Ys-1-1724红色;Opadry Ys-1-17274a米黄色;Opadry Ys-1-17277a米黄色;Opadry Ys-1-17307a奶油硬糖;Opadry Ys-1-17505a灰色;Opadry Ys-1-17506a灰色;Opadry Ys-1-1751g红色;Opadry Ys-1-1755灰

色;Opadry Ys-1-18005白色;Opadry Ys-1-18022白色;Opadry Ys-1-18027白色;Opadry Ys-1-18027a白色;Opadry Ys-1-18028白色;Opadry Ys-1-18097a白色;Opadry Ys-1-1811红色;Opadry Ys-1-18111白色;Opadry Ys-1-18130a白色;Opadry Ys-1-1814红色;Opadry Ys-1-18177a白色;Opadry Ys-1-18202a白色;OpadryYs-1-18229白色;Opadry Ys-1-1846红色;Opadry Ys-1-1847红色;Opadry Ys-1-1891红色;Opadry Ys-1-19025-A透明;Opadry Ys-1-2007黄色;Opadry Ys-1-2013黄色;Opadry Ys-1-2053白色;Opadry Ys-1-2053黄色;Opadry Ys-1-2063黄色;Opadry Ys-1-2074黄色;Opadry Ys-1-2083黄色;Opadry Ys-1-2115黄色;Opadry Ys-1-2122黄色;Opadry Ys-1-2134黄色;Opadry Ys-1-2135黄色;Opadry Ys-1-2136黄色;Opadry Ys-1-2141黄色;Opadry Ys-1-2152黄色;Opadry Ys-1-2167黄色;Opadry Ys-1-2181黄色;Opadry Ys-1-2184金色;Opadry Ys-1-2186黄色;Opadry Ys-1-2192黄色;Opadry Ys-1-2305橙色;Opadry Ys-1-2308暗橙色;Opadry Ys-1-2344黄色;Opadry Ys-1-2383橙色;Opadry Ys-1-2398橙色;Opadry Ys-1-2449橙色;Opadry Ys-1-2455红色;Opadry Ys-1-2465;Opadry Ys-1-2487橙色;Opadry Ys-1-2522橙色;Opadry Ys-1-2526橙色;Opadry Ys-1-2527橙色;Opadry Ys-1-2534;Opadry Ys-1-2546橙色;Opadry Ys-1-2548橙色;Opadry Ys-1-2549橙色;Opadry Ys-1-2558橙色;Opadry Ys-1-2563橙色;Opadry Ys-1-2564;Opadry Ys-1-2578橙色;Opadry Ys-1-2596橙色;Opadry Ys-1-2604米黄色;Opadry Ys-1-2612米黄色;Opadry Ys-1-2619;Opadry Ys-1-2621锈色;Opadry Ys-1-2623棕色;Opadry Ys-12630黄色;Opadry Ys-1-2635Tan;Opadry Ys-1-2660鲑鱼肉色;Opadry Ys-1-2665米黄色;Opadry Ys-1-2669锈色;Opadry Ys-1-2671米黄色;Opadry Ys-1-3105绿色;Opadry Ys-1-3130绿色;Opadry Ys-1-3134绿色;Opadry Ys-1-3146绿色;Opadry Ys-1-3147;Opadry Ys-1-3166绿色;Opadry Ys-1-3256绿色;Opadry Ys-1-3288绿色;Opadry Ys-1-4014蓝色;Opadry Ys-1-4018蓝色;Opadry Ys-1-4112蓝色;Opadry Ys-1-4137蓝色;Opadry Ys-1-4215;Opadry Ys-1-4216;Opadry Ys-1-4221蓝色;Opadry Ys-1-4228蓝色;Opadry Ys-1-4229蓝色;Opadry Ys-1-4234蓝色;Opadry Ys-1-4235蓝色;Opadry Ys-1-4236蓝色;Opadry Ys-1-4240蓝色;Opadry Ys-1-4241蓝色;Opadry Ys-1-4245蓝色;Opadry Ys-1-4249蓝色;Opadry Ys-1-4251蓝色;Opadry Ys-1-4254;Opadry Ys-1-4255;Opadry Ys-1-4256蓝色;Opadry Ys-1-4282蓝色;Opadry Ys-1-4298蓝色;Opadry Ys-14644粉色;Opadry Ys-1-4700紫色;Opadry Ys-1-4710;Opadry Ys-1-4739熏衣草色;Opadry Ys-1-4812熏衣草色;Opadry Ys-1-4845紫色;Opadry Ys-1-6275橙色;Opadry Ys-1-6300;Opadry Ys-1-6312黄色;Opadry Ys-1-6318黄色;Opadry Ys-1-6320黄色;Opadry Ys-1-6357黄色;Opadry Ys-1-6370g黄色;Opadry Ys-1-6378g黄色;Opadry Ys-1-6381黄色;Opadry Ys-1-6382g黄色;Opadry Ys-1-7000e白色;Opadry Ys-1-7002白色;Opadry Ys-1-7003白色;Opadry Ys-1-7003h白色;Opadry Ys-1-7006透明;Opadry Ys-1-7022灰白色;Opadry Ys-1-7027白色;Opadry Ys-1-7040白色;Opadry Ys-1-7052白色;Opadry Ys-1-7059白色;Opadry Ys-1-7060白色;Opadry Ys-1-7079白色;Opadry Ys-1-7086白色;Opadry Y-S-17191棕色;Opadry Ys-1-7444g白色;Opadry Ys-1-7449白色;Opadry Ys-1-7472透明;Opadry Ys-1-7507灰色;Opadry Ys-1-7552灰色;Opadry Ys-1-7700白色;Opadry Ys-1-7706透明;Opadry Ys-1-7706g白色;Opadry Ys-1-7724白色;Opadry Ys-1-8325米黄色;Opadry Ys-1-8343g米黄

色;Opadry Ys-1-8345g米黄色;Opadry Ys-1-8608橙色;Opadry Ys-1-8619橙色;Opadry Ys-1-89193透明;Opadry Ys-1-9011棕色;Opadry Ys-1-9012棕色;Opadry Ys-1r-1418粉色;Opadry Ys-1r-7006透明;Opadry Ys-2-10657蓝色;Opadry Ys-2-19071a透明;Opadry Ys-2-19114a透明;Opadry Ys-22-16576棕色;Opadry Ys-22-18119白色;Opadry Ys-2-7013透明;Opadry Ys-2-7063白色;Opadry Ys-3-7011透明;Opadry Ys-3-7031透明;Opadry Ys-3-7413透明;Opadry Ys-5-12575黄色;Opadry Ys-5-12576黄色;Opadry Ys-5-1260粉色;Opadry Ys-5-1296粉色;Opadry Ys-5-17266褐色;Opadry Ys-5-18011白色;Opadry Ys-5-18068白色;Opadry Ys-5-18074白色;Opadry Ys-5-19010透明;Opadry Ys-5-2085黄色;Opadry Ys-5-2370橙色;Opadry Ys-5-3116绿色;Opadry Ys-5-4277蓝色;Opadry Ys-5-4278蓝色;Opadry Ys-5-7017;Opadry Ys-5-7042透明;Opadry Ys-5-7068;Opadry Ys-5-7099白色;Opaglos2 97w19206透明;Opaglos 6000白色;Opaglos Gs 2-0300;Opaglos Gs2-0310;Opaglos Ii 97w90646蓝色;Opaglos S 0750;Opalux As 1406粉色;Opalux As 1459粉色;Opalux As 1589粉色;Opalux As 2006黄色;Opalux As 2007黄色;Opalux As 2052黄色;Opalux As 2062黄色;Opalux As 2086黄绿色;Opalux As 2094;Opalux As 2167黄色;Opalux As 2236;Opalux As 2269黄色;Opalux As 2324橙色;OpaluxAs 2336橙色;Opalux As 2395桃色;Opalux As 2413;Opalux As 2433橙色;Opalux As 2490珊瑚色;Opalux As 2498橙色;Opalux As 2553橙色;Opalux As 2612;Opalux As 2613褐色;Opalux As 2620-B褐色;Opalux As 2676鲑鱼肉红(Salmon Jasper Red);Opalux As 2754;Opalux As 2768;Opalux As 2787奶油硬糖;Opalux As 3140绿色;Opalux As3287;Opalux As 3288绿色;Opalux As 3308绿色;Opalux As 3348-C绿色;Opalux As 3376;Opalux As 3378-A绿色;Opalux As 3381;OpaluxAs 3389绿色;Opalux As 3391绿色;Opalux As 3942栗色;Opalux As4025;Opalux As 4151蓝色;Opalux As 4188蓝色;Opalux As 4193蓝色;Opalux As 4258蓝色;Opalux As 4270蓝色;Opalux As 4800熏衣草;Opalux As 4854熏衣草;Opalux As 4855紫色;Opalux As 4891;Opalux As 5005-A红色;Opalux As 5034红色;Opalux As 5107;OpaluxAs 5162绿色;Opalux As 5178绿色;Opalux As 5203绿色;Opalux As5212绿色;Opalux As 7000-B;Opalux As 7000-P白色;Opalux As 7001;Opalux As 7535灰色;Opalux As 8010-A黑色;Opalux As 8050-L黑色;Opalux As 9010棕色;Opalux As 9050棕色;Opalux As-1475粉色;Opalux As-9030棕色;Opalux蓝色;Opalux绿色;Opaque蓝色100;Opaque蓝色147;Opaque蓝色605;Opaque棕色85Bfj;Opaque绿色1664;Opaque绿色97;Opaque绿色/肉色;Opaque栗色6Dar;Opaque粉色0439;Opaque白色001;Opaque白色002;Opaque白色535;Opaque白色536;Opaque白色538;Opaque白色8;Opaspray 3-1700;Opaspray 3-1810;Opaspray 3-1820;Opaspray 3-1830;Opaspray Im-176;Opaspray K-1-1230粉色;Opaspray K-1-1243;Opaspray K-1-1254;Opaspray K-1-1279;Opaspray K-1-1289粉色;Opaspray K-1-14016粉色;Opaspray K-1-1413粉色;Opaspray K-1-1414粉色;OpasprayK-1-1432;Opaspray K-1-1437;Opaspray K-1-1455粉色;Opaspray K-1-1526粉色;Opaspray K-1-1563粉色;Opaspray K-1-1573熏衣草色;Opaspray K-1-1574;Opaspray K-1-1584;Opaspray K-1-1719红色;Opaspray K-1-2004黄色;Opaspray K-1-2013黄色;Opaspray K-1-2043黄色;Opaspray K-1-2182黄色;Opaspray K-1-2186黄色;Opaspray K-1-2216-A黄色;Opaspray K-1-2227黄色;Opaspray

K-1-2228黄色;Opaspray K-1-2239;Opaspray K-1-2240黄色;Opaspray K-1-2256黄色;Opaspray K-1-2275黄色;Opaspray K-1-2300桃色;Opaspray K-1-2301桃色;Opaspray K-1-2303橙色;Opaspray K-1-2304橙色;Opaspray K-1-2314橙色;Opaspray K-1-2327橙色;Opaspray K-1-2330橙色;Opaspray K-1-2335橙色;Opaspray K-1-2406橙色;Opaspray K-1-2410橙色;Opaspray K-1-2417橙色;Opaspray K-1-2430;Opaspray K-1-2441橙色;Opaspray K-1-2471橙色;Opaspray K-1-2473;Opaspray K-1-2492;Opaspray K-1-2531;Opaspray K-1-2533橙色;Opaspray K-1-2554;Opaspray K-1-2568橙色;Opaspray K-1-2570橙色;Opaspray K-1-2588橙色;Opaspray K-1-2614米黄色;Opaspray K-1-2621棕色;Opaspray K-1-2626橙色;Opaspray K-1-2656米黄色;Opaspray K-1-2670褐色;Opaspray K-1-2674米黄色;Opaspray K-1-2711;Opaspray K-1-2723奶油硬糖;Opaspray K-1-2837;Opaspray K-1-3000;Opaspray K-1-3142绿色;Opaspray K-1-3144绿色;Opaspray K-1-3147;Opaspray K-1-3148绿色;Opaspray K-1-3156;Opaspray K-1-3173绿色;Opaspray K-1-3178绿色;Opaspray K-1-3197绿色;Opaspray K-1-3202绿色;Opaspray K-1-3209绿色;Opaspray K-1-3220绿色;Opaspray K-1-3227;Opaspray K-1-3300-A绿色;Opaspray K-1-3300-C绿色;Opaspray K-1-3843;Opaspray K-1-4108蓝色;Opaspray K-1-4119;Opaspray K-1-4122蓝色;Opaspray K-1-4136蓝色;Opaspray K-1-4205蓝色;Opaspray K-1-4210-A;Opaspray K-1-4213蓝色;Opaspray K-1-4214;Opaspray K-1-4227;Opaspray K-1-4234蓝色;Opaspray K-1-4235蓝色;Opaspray K-1-4728;Opaspray K-1-4731紫色;Opaspray K-1-4743熏衣草;Opaspray K-1-4786;Opaspray K-1-7000白色;Opaspray K-1-70008白色;Opaspray K-1-7000b;Opaspray K-1-7076;Opaspray K-1-9027棕色;Opaspray K-1-9039-L棕色;Opaspray K-1-9060红色;Opaspray K-1-9080棕色;Opaspray K-1-9112棕色;Opaspray L-2113;Opaspray L-3305绿色;Opaspray L-3306绿色;Opaspray L-7000白色;Opaspray M-1-2042;Opaspray M-1-3459B橙色;Opaspray M-1-4395b蓝色;Opaspray M-1-7111-B;Opaspray M-1-711b白色;Opaspray M-1-7120白色;Opaspray M-1-8429黄色;Opaspray Wd-1270粉色;Opatint Ad-22901黄色;Opatint Ad-25000红色;Opatint Dd-14000粉色;Opatint Dd-18000白色;橙子汁;合成橙子汁;橙子油;无萜橙子油;橙子皮;Orvus K液体;奥昔膦酸二钠(Oxidronate Disodium);棕榈仁油;氢化的棕榈油-大豆油;棕榈胺氧化物;棕榈酸;对羟基苯甲酸酯类;石蜡;Parfum Creme 45/3;Parmacoat 606;Pd Base-1000;花生油;果胶;Peg 6-32硬脂酸酯/硬脂酸乙二醇酯;Peg植物油;Peg/Ppg-18/18二甲基硅氧烷;Peg-100硬脂酸酯;Peg-12月桂酸甘油酯;Peg-120硬脂酸甘油酯;Peg-120甲基葡萄糖二油酸酯;Peg-15椰油胺;Peg-150二硬脂酸酯;Peg-2硬脂酸酯;Peg-20甲基葡萄糖倍半硬脂酸酯;Peg-20失水山梨糖醇异硬脂酸酯;Peg-20硬脂酸酯;Peg-22甲基醚/十二烷基二醇共聚物;Peg-25丙二醇硬脂酸酯;Peg-4二月桂酸酯;Peg-4月桂酸酯;Peg-40蓖麻油;Peg-40失水山梨糖醇二异硬脂酸酯;Peg-45/十二烷基二醇共聚物;Peg-5油酸酯;Peg-50硬脂酸酯;Peg-54氢化蓖麻油;Peg-6异硬脂酸酯;Peg-60氢化蓖麻油;Peg-7甲基醚;Peg-75羊毛脂;Peg-8辛酸甘油酯/癸酸甘油酯;Peg-8月桂酸酯;Peg-8硬脂酸酯;Pegoxol 7硬脂酸酯;十五内酯;季戊四醇椰油酸酯;喷替酸五钠(Pentasodium Pentetate);喷替酸钙三钠(Pentetate Calcium Trisodium);喷替酸(Pentetic Acid);胡椒薄荷油;全氟丙烷(Perflutren);香料(Perfume)25677;香料B-8412;香料花束;香料E-1991;香料Gd 5604;香

料Tana 90/42Scba;香料W-1952-1;矿脂;石油馏出物;Pharmaburst B1;Pharmaburst B2;Pharmaburst C1;苯酚;Phenonip;苯氧基乙醇;苯基丙氨酸;苯乙醇;乙酸苯汞;硝酸苯汞;磷酸盐离子;磷脂;磷酸;颜料混合物86620棕色;颜料混合物Pb-2145红色;颜料混合物Pb-2289黄色;颜料混合物Pb-2389灰白色;颜料混合物Pb-2417粉色;颜料混合物Pb-2418黑色;颜料混合物Pb-24899Ih;松针油(欧洲赤松(Pinus Sylvestris));菠萝;哌嗪;哌嗪六水合物;安慰剂(Placebo);Plasacryl;Plastibase-50w;Plusweet;波拉克林(Polacrilin);波拉克林钾(Polacrilin Potassium);泊利氯铵(Polidronium Chloride);抛光蜡7625P100;抛光溶液Im-182;泊洛沙姆;泊洛沙姆70;泊洛沙姆124;泊洛沙姆181;泊洛沙姆182;泊洛沙姆188;泊洛沙姆237;泊洛沙姆331;泊洛沙姆338;泊洛沙姆407;聚(双(对羧基苯氧基)丙烷酸酐);癸二酸;聚(二甲基硅氧烷/甲基乙烯基硅氧烷/甲基氢硅氧烷)二甲基乙烯基或二甲基羟基或三甲基封端;聚(Dl-乳酸-共-乙醇酸),(50:50;12000Mw);聚(Dl-乳酸-共-乙醇酸),(75:25;20000Mw);聚(Dl-乳酸-共-乙醇酸),乙酯封端,(50:50;12000Mw);聚(丙烯酸甲酯-共-甲基丙烯酸甲酯-共-甲基丙烯酸7:3:1;280000Mw);聚丙烯酸(250000Mw);聚丁烯(1400Mw);聚卡波非;聚右旋糖;聚右旋糖K;聚酯;聚酯聚胺共聚物;聚酯人造丝;聚酯/乙烯-乙酸乙烯酯;聚乙二醇1000;聚乙二醇1450;聚乙二醇1500;聚乙二醇200;聚乙二醇20000;聚乙二醇300;聚乙二醇3000;聚乙二醇3350;聚乙二醇3500;聚乙二醇400;聚乙二醇4000;聚乙二醇4500;聚乙二醇540;聚乙二醇600;聚乙二醇6000;聚乙二醇7000;聚乙二醇800;聚乙二醇8000;聚乙二醇900;聚乙二醇;含有氧化铁黑(<1%)的高密度聚乙烯;含有硫酸钡(20-24%)的低密度聚乙烯;聚环氧乙烯1000000;聚环氧乙烯200000;聚环氧乙烯2000000;聚环氧乙烯600000;聚环氧乙烯7000000;聚环氧乙烯900000;聚乙烯T;聚对苯二甲酸乙二醇酯;聚半乳糖醛酸;Polyglactin;聚甘油基-10油酸酯;聚甘油基-10四亚油酸酯;聚甘油基-3油酸酯;聚甘油基-4油酸酯;聚羟乙基甲基丙烯酸酯;聚异丁烯;聚异丁烯(1100000Mw);聚异丁烯(2300Mw);聚异丁烯(35000Mw);聚异丁烯(55000Mw);聚异丁烯(800000Mw);低分子量聚异丁烯;中等分子量聚异丁烯;聚异丁烯/聚丁烯粘合剂;聚交酯;多元醇;聚氧乙烯-聚氧丙烯1800;聚氧乙烯醇;聚氧乙烯脂肪酸酯;聚氧乙烯丙烯;聚烃氧基20鲸蜡基硬脂基醚;聚烃氧基35蓖麻油;聚烃氧基40氢化蓖麻油;聚烃氧基40硬脂酸酯;聚烃氧基6和聚烃氧基32棕榈酸硬脂酸酯;聚烃氧基二硬脂酸酯;聚烃氧基甘油基硬脂酸酯;聚烃氧基羊毛脂;聚烃氧基棕榈酸酯;聚烃氧基硬脂酸酯;聚烃氧基乙烯异壬基苯基酯异壬基苯基酯;丙烯;聚丙二醇;聚季铵-10;聚季铵-7(70/30丙烯酰胺/Dadmac;1600000Mw);多糖;大豆多糖;聚硅氧烷;聚山梨醇酯20;聚山梨醇酯40;聚山梨醇酯60;聚山梨醇酯65;聚山梨醇酯80;聚山梨醇酯85;聚苯乙烯磺酸;聚氨基甲酸酯;聚乙酸乙烯酯;Polyvinyl Acetate Phthalate;聚乙烯醇;聚乙烯醇Graft Polyethylene Glycol共聚物(3:1;45000Mw);聚氯乙烯;聚氯乙烯-聚乙酸乙烯酯共聚物;聚乙烯基缩醛;聚乙烯基吡啶;聚乙烯基吡咯烷酮乙基纤维素;丽春红3r;丽春红二甲苯胺;罂粟籽油;钾;乙酸钾;钾明矾;碳酸氢钾;亚硫酸氢钾;酒石酸氢钾;碳酸钾;氯化钾;柠檬酸钾;无水柠檬酸钾;氢氧化钾;焦亚硫酸钾;偏磷酸钾;磷酸氢二钾;磷酸二氢钾;钾皂(Potassium Soap);山梨酸钾;聚维酮丙烯酸酯共聚物;聚维酮水凝胶;聚维酮K12;聚维酮K17;聚维酮K25;聚维酮K26/28;聚维酮K29/32;聚维酮K30;聚维酮K90;聚维酮/二十碳烯共聚物;聚维酮;粉末状纤维素;Ppg-11硬脂基醚;Ppg-12/Smdi共聚物;Ppg-15硬脂基醚;Ppg-20甲基葡萄糖醚二硬脂酸酯;Ppg-26

油酸酯;丙码卡因(Pramoxine)盐酸盐;Primajel;基本味道调节剂29275号;Product Wat;脯氨酸;Promulgen D;Promulgen G;丙烷;丙烯基乙基愈创木酚;没食子酸丙酯;丙烯碳酸酯;丙二醇;丙二醇-卵磷脂;丙二醇海藻酸酯;丙二醇二乙酸酯;丙二醇二辛酸酯;丙二醇月桂酸酯;丙二醇单月桂酸酯;丙二醇单棕榈酸硬脂酸酯;丙二醇单硬脂酸酯;丙二醇蓖麻醇酸酯;丙二醇/二偶氮烷基脲/对羟基苯甲酸甲酯/对羟基苯甲酸丙酯;对羟基苯甲酸丙酯;对羟基苯甲酸丙酯钠;Prosolv;Prosolv 50;Prosolv 90;Prosolv Hd 90;Prosolv Smcc50;Prosolv Smcc 90;Prosweet;Prosweet 604;Prosweet K;鱼精蛋白硫酸盐;蛋白质水解产物;Pvm/Ma共聚物;季铵-15;季铵-15顺-形式;季铵-52;Ra-2397;Ra-3011;覆盆子;覆盆子汁;若丹明B;核黄素;松香;糖精;糖精钙;糖精钠;无水糖精钠;红花油;钪;Sd醇3a;无水Sd醇3a;Sd醇40;Sd醇40-2;Sd醇40b;Sepifilm Lp-761Blanc;Sepineo P 600;Sepisperse Ap 3527;丝氨酸;芝麻油;牛油树脂(Shea Butter);虫胶;虫胶P.V.P.溶液4号;Silastic牌医疗级管;Silastic医疗粘合剂,硅酮A型;硅;二氧化硅;硅酮;硅酮乳剂;硅酮/聚酯膜条带;西甲硅油;西甲硅油C;西甲硅油乳剂;Sipon Ls 20np;Soap;1,2-乙烷二磺酸钠;2-萘磺酸钠;乙酸钠;无水乙酸钠;海藻酸钠;烷基硫酸钠;硅酸铝钠;抗坏血酸钠;苯甲酸钠;碳酸氢钠;硫酸氢钠;硫酸氢钠丙酮;亚硫酸氢钠;酒石酸氢钠;硼酸钠;碳酸钠;碳酸钠十水合物;碳酸钠一水合物;羧甲基β-葡聚糖钠(Ds 0.65-0.85);酪蛋白酸钠;纤维素钠;鲸蜡基硬脂基硫酸钠;氯酸钠;氯化钠;亚氯酸钠;胆甾醇基硫酸钠;柠檬酸钠;柠檬酸钠;椰油酰基肌氨酸钠;环己氨磺酸钠;去氧胆酸钠;连二亚硫酸钠;十二烷基苯磺酸钠;对羟基苯甲酸乙酯钠;甲醛次硫酸钠;葡糖酸钠;氢氧化钠;次氯酸钠;碘化钠;乳酸钠;L-乳酸钠;月桂基聚氧乙烯醚-2硫酸钠;月桂基聚氧乙烯醚-3硫酸钠;月桂基聚氧乙烯醚-5硫酸钠;月桂酰基肌氨酸钠;月桂基硫酸钠;月桂基磺基乙酸钠;焦亚硫酸钠;硝酸钠;油酸钠;磷酸钠;磷酸钠二水合物;磷酸钠P-32;磷酸氢二钠;磷酸氢二钠二水合物;磷酸氢二钠十二水合物;无水磷酸氢二钠;磷酸氢二钠,十二水合物;磷酸氢二钠,七水合物;无水磷酸二氢钠;磷酸二氢钠,二水合物;磷酸二氢钠,一水合物;磷酸二氢钠;磷酸三钠;无水磷酸三钠;磷酸三钠,一水合物;亚磷酸钠;聚丙烯酸钠;聚丙烯酸钠(2500000Mw);聚偏磷酸钠;聚苯乙烯磺酸钠;丙酸钠;焦磷酸钠;吡咯烷酮甲酸钠;玉米淀粉羟乙酸钠A型;马铃薯淀粉羟乙酸钠A型;马铃薯淀粉羟乙酸钠B;硬脂酸钠;硬脂基富马酸钠;琥珀酸钠六水合物;硫酸钠;无水硫酸钠;亚硫酸钠;磺基琥珀酸化十一碳烯单烷基醇酰胺钠;酒石酸钠;硫代羟乙酸钠;硫代苹果酸钠;硫代硫酸钠;无水硫代硫酸钠;三偏磷酸钠;三聚磷酸钠;二甲苯磺酸钠;Solvent红色49;Somay 44;山梨酸;失水山梨糖醇;失水山梨糖醇异硬脂酸酯;失水山梨糖醇单月桂酸酯;失水山梨糖醇单油酸酯;失水山梨糖醇单棕榈酸酯;失水山梨糖醇单硬脂酸酯;失水山梨糖醇倍半油酸酯;失水山梨糖醇三油酸酯;失水山梨糖醇三硬脂酸酯;山梨糖醇;山梨糖醇特定多元醇溶液;山梨糖醇-甘油混合物;大豆;大豆油;绿薄荷;绿薄荷油;Spectrablend Csl-15764(蓝色);鲸蜡;角鲨烷;2-乙基己酸亚锡;氯化亚锡;无水氯化亚锡;氟化亚锡;酒石酸亚锡;八角茴香;淀粉;淀粉7150;淀粉825;淀粉826;玉米淀粉;改性淀粉;马铃薯淀粉;预胶化的淀粉;大米淀粉;木薯淀粉;小麦淀粉;司拉氯铵(Stearalkonium Chloride);司拉氯铵水辉石(Stearalkonium Hectorite)/丙烯碳酸酯;硬脂酰氨基乙基二乙胺;硬脂酸酯;硬脂醇聚醚-10;硬脂醇聚醚-100;硬脂醇聚醚-2;硬脂醇聚醚-20;硬脂醇聚醚-21;硬脂醇聚醚-40;硬脂酸;硬脂酸二乙醇酰胺;Stear-O-Wet C;Stear-O-Wet M;硬脂氧基三甲基硅

烷;硬脂酰基聚氧基甘油酯;硬脂基三甲基铵水解的动物胶原;硬脂醇;草莓;苯乙烯/异戊二烯/苯乙烯嵌段共聚物;琥巯酸;琥珀酸;三氯蔗糖;蔗糖;蔗糖月桂酸酯;蔗糖棕榈酸酯;蔗糖聚酯;蔗糖硬脂酸酯;蔗糖硬脂酸酯/蔗糖二硬脂酸酯;糖液体型0号(Sugar Liquid Type No.0);糖/淀粉插入颗粒;磺乙酰胺钠;二氧化硫;硫酸;亚硫酸;Surelease E-719010透明;Surelease E-7-7050;Surfactol Qs;同步口服载体;同步口服载体基质Kf;同步口服载体媒介物Em型;合成氧化铁;塔格糖;滑石;滑石127;滑石研碎物;妥尔油;牛脂甘油酯;酒石酸;Dl-酒石酸;Tegacid;Tenox;Tenox-2;萜烯树脂;叔丁醇;叔丁基氢过氧化物;叔丁基氢醌;四氯乙烯;四(2-甲氧基异丁基异氰化物)酮(I)四氟硼酸盐;原硅酸四丙酯;替曲膦(Tetrofosmin);噻汞撒(Thimerosal);苏氨酸;百里香酚;Timing溶液透明N-7;锡;二氧化钛;生育酚;托可索仑(Tocophersolan);酒石酸托特罗定(Tolterodine Tartrate);妥卢香脂;黄芪胶;海藻糖;三醋酸甘油酯;磷酸三钙;三山嵛精;三辛精;三鲸蜡硬脂醇聚醚-4磷酸酯;三氯乙烷;三氯乙烯;三氯单氟甲烷;十三醇聚氧乙烯醚-10;月桂基硫酸三乙醇胺;柠檬酸三乙酯;三氟乙酸;合成的甘油三酯;三羟基硬脂精;三羊毛脂醇聚醚-4磷酸酯;三月桂基聚氧乙烯醚-4磷酸酯;三甲基硅烷基处理的二甲基硅氧烷醇/三甲基甲硅烷氧基硅酸酯交联聚合物(35/65W/W;50000000Pa.S);三甲基硅烷基处理的二甲基硅氧烷醇/三甲基甲硅烷氧基硅酸酯交联聚合物(40/60W/W;5000000Pa.S);三甲基硅烷基处理的二甲基硅氧烷醇/三甲基甲硅烷氧基硅酸酯交联聚合物(45/55W/W;100000Pa.S);三肉豆蔻酸甘油酯(Trimyristin);柠檬酸三钠二水合物;Hedta三钠;三硬脂精;Triton 720;三乙醇胺;曲金刚胺;氨丁三醇;色氨酸;松节油;泰洛沙泊(Tyloxapol);蓝色Ty-Med填充剂;酪氨酸;十一碳烯酸;Union 76Amsco-Res 6038;脲;氨基甲酸酯;熊去氧胆酸(Ursodiol);缬氨酸;香草;香草醛;植物油;氢化植物油甘油酯;氢化植物油;植物酥油;Velvetine黑色粉末;密花毛蕊草(Verbascum Densiflorum)叶;维塞胺(Versetamide);乙酸乙烯酯-巴豆酸共聚物;纤维胶/棉;水;蜡;蜡混合物;乳化蜡;植物蜡;Wecobee Fs;小麦;小麦麸质;白蜡;黄原胶;木糖醇;木糖醇300;黄色Ob;黄蜡;玉米蛋白;锌;乙酸锌;碳酸锌;氯化锌;氧化锌;硬脂酸锌;硫酸锌一水合物;硫酸锌(无水)。

[0329] 在一些实施方案中,组合物包含甜化化合物和/或甜味增强化合物,以及一种或多种质地改性剂,所述质地改性剂包括例如乳化剂、胶凝剂、增稠剂和粘合剂。在一些实施方案中,一种或多种质地改性剂选自胶、海藻酸盐、明胶、淀粉、果胶、琼脂、角叉菜胶及其盐。

[0330] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种苦味剂、苦味化合物或苦味增强化合物。代表性的苦味剂、苦味化合物和苦味增强化合物包括但不限于:麦角甾苷(Acteoside);加葎草酮(Adhumulone);附蛇麻芦酮(Adlupulone);七叶亭(Aesculetin);七叶灵(Aesculin);L-丙氨酸;L-丙氨酰基-L-丙氨酰基-L-丙氨酸;L-丙氨酰基-L-异亮氨酰基-丙氨酸L-;L-缬氨酰基-L-缬氨酰基-苦杏苷;Amaropanin苦当药酯苷(Amaroswerin);苦杏仁苷;狭叶羽扇豆碱(Angustifoline);抗乙酰基葎草酮;抗异葎草酮;精氨酸;L-精氨酰基亮氨酸;精氨酰基亮氨酰基亮氨酸;精氨酰基脯氨酸;细辛醛(Asaronaldehyde);天冬氨酰基天冬氨酸;Asparasaponin I;阿托品(Atropine);苄基β-D-阿拉伯糖苷;苄基β-L-阿拉伯糖苷;苄基β-D-果糖苷;苄基β-D-半乳糖苷;苄基α-D-葡萄糖苷;苄基β-D-葡萄糖苷;苄基α-D-甘露糖苷;苦肽;来自大豆蛋白的苦肽;丁基α-D-葡萄糖苷;丁基β-D-葡萄糖苷;咖啡因;肉质雪胆皂苷II;肉质雪胆皂苷III;肉质雪胆皂苷IV;儿茶

素;表儿茶素;表儿茶素没食子酸酯;查茄碱;α-查茄碱;β2-氯霉素;胆酸;菊苣苷;合葎草酮(Cohumulone);合蛇麻酮(Colupulone);隐绿原酸;γ-内酯;葫芦素B;葫芦素D;环丙氨酸-甘氨酸;环丙氨酸-苯丙氨酸;环丙氨酸-缬氨酸;环(L-精氨酰基甘氨酰基-L-脯氨酰基-L-脯氨酰基-L-苯基丙氨酰基-L-异亮氨酰基-L-缬氨酰基);环天冬酰胺-苯基丙氨酸;环甘氨酸-苯基丙氨酸;环己酰亚胺环Lucine-色氨酸;环戊(b)氮杂-8(1H)-酮;7-甲基-2,3,6,7-四氢-环戊(b)氮杂-8(1H)-酮;2,3,6,7-四氢-7-羟基-7-甲基-环戊-2-烯-1-酮;2,5-二羟基-5-甲基-3-(1-哌啶基)-环戊-2-烯-1-酮;2,5-二羟基-5-甲基-3-(1-吡咯烷基)环戊-2-烯-1-酮;2,3-二-1-吡咯烷基-环戊-2-烯-1-酮;5-羟基-5-甲基-2,3-二-1-哌啶基-环戊-2-烯-1-酮;5-羟基-5-甲基-2,3-二-1-吡咯烷基-环戊-2-烯-1-酮;5-甲基-2,3-二-1-吡咯烷基-环戊-2-烯-1-酮;5-亚甲基-2,3-二-1-吡咯烷基-环戊-2-烯-1-酮;3-甲基-2-(1-吡咯烷基)-环苯丙氨酸-天冬氨酸;环脯氨酸-丙氨酸;环脯氨酸-天冬酰胺;环脯氨酸-甘氨酸;环脯氨酸-异lucine;环脯氨酸-亮氨酸;环脯氨酸-蛋氨酸;环脯氨酸-苯基丙氨酸;环脯氨酸-脯氨酸;环脯氨酸-缬氨酸;环缬氨酸-苯基丙氨酸;Cynaratriol;菜蓟苦素;菜蓟苦素;黄豆苷元;黄豆苷苯甲酸地那铵;地那铵糖;蜀黍苷;二羟基苯甲酸;2,3-二羟基苯甲酸;2,4-乙基b-L-阿拉伯糖苷;乙基α-D-葡萄糖苷;乙基β-D-葡萄糖苷;Eustomoroside;Eustomoside;没食子酸;表没食子儿茶素;表没食子儿茶素没食子酸;Gaudichaudioside F;Gelidoside;染料木素(Genistein);染料木苷(Genistin);龙胆苦苷;龙胆酸;Gentomoside;Geshoidin;6'-O-β-D-葡糖基龙胆苦苷;ucozaluzanin C;谷氨酰基天冬氨酸;谷氨酰基谷氨酸;甘氨酰基亮氨酸;甲状腺肿素(Goitrin);芦竹碱(Gramine);大海米菊素(Grosshemin);苏木精四甲基醚绣线菊苷;十七碳-16-烯;1-乙酰氧基-2,4-二羟基-十七碳-16-烯;1,2,4-三羟基-组氨酸;L-希鲁酮;葎草灵酮(Humulinone);葎草酮(Humulone);羟基苯甲酸;4-Hymenoside A;Hymenoside B;Hymenoside C;Hymenoside D;Hymenoside E;Hymenoside F;异葎草酮;顺-异葎草酮;反-异亮氨酸;L-异羽扇烷宁;异鹰爪豆碱;β-异鹰爪豆碱;10,17-二氧代-β-异鹰爪豆碱;10-氧代-β-莴苣苦素;L-亮氨酸;L-丙氨酰基-L-丙氨酰基-L-亮氨酸;N-[(R2R)-6-氨基-2-[(4S)-2,5-二氧代-4-(苯基甲基)-1-咪唑烷基]-1-氧代己基]--L-亮氨酰基-L-甲硫氨酰基-N-甲基-L-苯基丙氨酰基-,(4-1)-内酰胺;L-亮氨酸;甘氨酰基-L-丙氨酰基-亮氨酸;L-L-亮氨酸;N-(N2-L-亮氨酰基-L-谷氨酰胺酰基)-L-亮氨酸;N-(N-L-亮氨酰基-L-a-谷氨酰基)-L-亮氨酸;N-[N2-[N2-[N-(1-L-亮氨酰基-L-脯氨酰基)-L-苯基丙氨酰基]-L-天冬酰胺酰基]-L-谷氨酰胺酰基]-L-亮氨酸;N[N2-[N-[N-(1-L-亮氨酰基-L-脯氨酰基)-L-苯基丙氨酰基]-L-丝氨酰基]-L-谷氨酰胺酰基]-L--亮氨酸;L-亮氨酰基-L-缬氨酰基-亮氨酰基亮氨酸;亮氨酰基苯基丙氨酸;柠檬苦素;柠檬苦素单内酯;亚麻苦苷;百脉根苷;羽扇豆;羽扇烷宁;13-羟基-羽扇烷宁;7-羟基-羽扇豆碱;表羽扇豆碱Lupoxes B;Lupoxes C;蛇麻酮;Luputrione;蜂蜜曲霉素(Mellein);6-甲氧基-蛋氨酸;L-甲基α-L-阿拉伯糖苷;甲基β-L-阿拉伯糖苷;甲基β-D-葡萄糖苷;甲基α-D-葡萄糖苷2,3-二-异亮氨酸;甲基α-D-葡萄糖苷2,3-二-亮氨酸;甲基α-D-葡萄糖苷2,3-二-L-苯基丙氨酸;甲基α-D-葡萄糖苷2,3-二-苏氨酸;甲基α-D-葡萄糖苷2,3-二-酪氨酸;甲基a-D-甘露糖苷;甲基β-L-吡喃木糖苷;甲基α-D-木糖苷;柚皮苷;新绿原酸;γ-内酯;新橙皮苷;特女贞苷;石斛碱(Oleonuezhenide);橄榄苦苷(Oleuropein);Olivieroside A;Olivieroside B;Olivieroside C;Perrottetin H;苯基丙氨酸;L-苯基α-D-半乳糖苷;苯

基α-D-葡萄糖苷;苯基β-D-葡萄糖苷;苯硫脲;糙苏苷II;哌啶-2-甲酸;4-[(2-羧基-2-羟乙基(硫代]-哌啶甲酸-2,4-[(2-羧基-2-羟乙基)硫代]-前葙草酮;前蛇麻酮;丙基β-D-果糖苷;丙基α-D-葡萄糖苷;丙基β-D-葡萄糖苷;原儿茶酸;野黑樱苷(Prunasin);Pulcherrimine;奎尼丁(Quinidine);奎宁;喹嗪鎓-7-醇盐;雷尼替丁;瑞鲍迪苷C;水杨苷;红景天苷;Scabraside;藤三七雪胆苷R5;香紫苏内酯;东莨菪苷;Septemfidoside;丝氨酰基赖氨酰基甘氨酰基亮氨酸;芥子碱(Sinapine);茄碱;α-鹰爪豆碱;鹰爪豆碱;17-氧代-Stevisalioside A;马钱子碱;甜茶糖苷C1;甜茶糖苷D2;甜茶糖苷F;蔗糖八乙酸酯;獐牙菜苷;獐牙菜苦苷;紫药苦苷(Swertiapunimarin);紫杉氰醣苷;TFI(呋甾烷,β-D-吡喃半乳糖苷);茶黄素;茶黄素没食子酸酯A;茶黄素没食子酸酯B;蕃茄碱;番茄苷;α-三环脱氢异葙草酮;三叶苷;三羟基苯甲酸;2,4,6-色氨酸;L-尿嘧啶;6-丙基-2-硫代-L-缬氨酸;L-精氨酰基甘氨酰基-L-脯氨酰基-L-脯氨酰基-L-苯基丙氨酰基-L-异亮氨酰基-(BPIa)缬氨酸;L-育亨宾;野黄瓜的提取物;地那铵;苯甲酸地那铵以及地那铵糖。

[0331] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种酸或酸味调味剂。代表性的酸味调味剂包括但不限于:抗坏血酸;苯甲酸;没食子酸;葡糖醛酸;己二酸;戊二酸;丙二酸;琥珀酸;苹果酸;乙酸;乳酸;柠檬酸;酒石酸;富马酸;磷酸;焦磷酸;鞣酸;醋;柠檬汁;酸橙汁;酸性水果汁;以及酸性水果提取物。

[0332] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种盐或盐味增强剂。代表性的盐或盐味增强剂包括但不限于:矿物盐;氯化钠;氯化钾;氯化镁;氯化铵;葡糖酸钠;磷酸钠;甘氨酸;L-丙氨酸;L-缬氨酸;L-亮氨酸;L-异亮氨酸;L-苯基丙氨酸;L-酪氨酸;L-谷氨酰胺;L-谷氨酸;L-天冬酰胺;L-天冬氨酸;L-丝氨酸;L-苏氨酸;L-半胱氨酸;L-蛋氨酸;L-脯氨酸;L-赖氨酸;L-精氨酸;L-色氨酸;L-组氨酸;L-焦赖氨酸;L-焦谷氨酰胺;L-4-反-羟基脯氨酸;L-3-顺-羟基脯氨酸;L-高丝氨酸;L-高半胱氨酸;L-胱氨酸;L-鸟氨酸和L-瓜氨酸;L-谷氨酰胺;L-谷氨酸;L-天冬酰胺;L-天冬氨酸;L-缬氨酸;L-精氨酸和L-赖氨酸。

[0333] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种鲜味调味料或鲜味风味增强剂。代表性的鲜味化合物或鲜味增强化合物包括但不限于美国专利申请公开文本2005/0084506A1、U.S.2009/0111834A1、U.S.2012/0201763A1、U.S.2015/0093339A1、U.S.2006/0263411A1、U.S.2012/0226047A1和2009/0220662A1中所示的化合物。另外的代表性的鲜味化合物或鲜味增强化合物包括但不限于:水解的大豆蛋白;水解的玉米蛋白;水解的小麦蛋白;凤尾鱼;凤尾鱼酱;鱼露;酵母提取物;营养酵母;水解的酵母提取物;蘑菇;蘑菇粉;脱水蘑菇;蘑菇提取物;红茶菌(kombucha);水解的植物蛋白;蚝油;酱油;大豆提取物;日本酱油(tamari);味噌粉;味噌酱;帕玛森奶酪;帕玛森奶酪固体;海带粉;海带;脱水海带;海带酱;紫菜;紫菜粉;紫菜酱;海藻;脱水海藻;海藻粉;海藻提取物;番茄;脱水番茄;番茄粉;番茄提取物;蔬菜粉;蔬菜提取物;乳清粉末;乳清固体;乳清;胶原;明胶;结构性植物蛋白;酪蛋白酸钠;酪蛋白酸钙;酪蛋白酸镁;酪蛋白酸钾;乙醛酸;3-甲基-2-氧代-丁酸;3-甲基-2-氧代-戊酸;4-甲基-2-氧代-戊酸;3-羟基-2-氧代-丙酸;草乙酸;2-氧代-戊二酸;2-氧代-3-苯基-丙酸;3-(4-羟苯基)-2-氧代-丙酸;2-氧代-1H-吲哚-3-丙酸;2-氧代-1H-咪唑-4-丙酸;4-甲基硫代-2-氧代-丁酸;3-巯基-2-氧代-丙酸;3-羟基-2-氧代-丁酸;6-氨基-2-氧代-己酸和5-胍基-2-氧代-戊酸;2-氨基-丁酸;α-丙氨酸;甘

氨酸;正缬氨酸;缬氨酸;天冬氨酸;正亮氨酸;亮氨酸;异亮氨酸;丝氨酸;苏氨酸;谷氨酸;苯基丙氨酸;酪氨酸;半胱氨酸;蛋氨酸;赖氨酸;色氨酸;组氨酸;精氨酸;天冬酰胺;谷氨酰胺;胱氨酸;瓜氨酸;茶氨酸;γ-亚甲基-谷氨酸;异丁子香酚;2-丙基苯酚;对乙烯基愈创木酚;2-乙酰基吡嗪;2-乙基-3,5-二甲基吡嗪;2,3,5-三甲基吡嗪;2,3-二乙基-5-甲基吡嗪;3-乙基-2-甲基吡嗪;二甲基硫醚;二甲基二硫醚;二甲基三硫醚;甲基丙基二硫醚;2-甲基苯硫酚;甲硫基丙醛(3-甲基硫代丙醛);2-辛烯醛;2,4-壬二烯醛;2,4-癸二烯醛;2,4-十一碳二烯醛;2-甲氧基苯甲醛;2,4-十二碳二烯醛;癸烯醛;2-呋喃甲酸甲酯;2-乙基-4-羟基-3-甲基5(2H)-呋喃酮;2,6-二甲基苯硫酚2-壬烯-1-醇;10-十一碳烯酸;十一烷酸;异癸酸和异壬酸;2-氧代-丁酸;草乙酸;3-甲基-2-氧代-丁酸;3-甲基-2-氧代-戊酸;2-氧代-戊二酸和3-巯基-2-氧代-丙酸;NaCl;KCl;MSG;单磷酸鸟苷(GMP);单磷酸肌苷(IMP);核糖核苷酸例如肌苷酸二钠、鸟苷酸二钠;N-(2-羟乙基)-乳酰胺;N-乳酰基-GMP;N-乳酰基酪胺;γ氨基丁酸;烯丙基半胱氨酸;1-(2-羟基-4-甲氧基苯基)-3-(吡啶-2-基)丙-1-酮;精氨酸;氯化钾;氯化铵;琥珀酸;N-(2-甲氧基-4-甲基苄基)-N’-(2-(吡啶-2-基)乙基)草酰胺;N-(庚-4-基)苯并(D)(1,3)间二氧杂环戊烯-5-甲酰胺;N-(2,4-二甲氧基苄基)-N’-(2-(吡啶-2-基)乙基)草酰胺;N-(2-甲氧基-4-甲基苄基)-N’-2(2-(5-甲基吡啶-2-基)乙基)草酰胺;环丙基-E,Z-2,6-壬二烯酰胺;谷氨酸;谷氨酸盐;谷氨酸单钠;谷氨酸单钾;谷氨酸一铵;二谷氨酸钙;二谷氨酸镁;L-天冬酰胺或其盐;5’-核糖核苷酸或其盐;5’-核糖核苷酸钙;5’-核糖核苷酸二钠;5’-核糖核苷酸二钾;肌苷酸;鸟苷酸;腺苷酸;肌苷酸盐;鸟苷酸盐和腺苷酸盐;鸟苷5’-单磷酸酯;肌苷5’-单磷酸酯;5’-腺苷酸盐;鸟苷酸二钠;肌苷酸二钠;腺苷酸二钠;鸟苷酸二钾;肌苷酸二钾;腺苷酸二钾;鸟苷酸钙;肌苷酸钙;腺苷酸钙;麦芽酚;乙基麦芽酚;甘氨酸;L-亮氨酸;自溶或水解的蛋白质(例如自溶的酵母,水解的酵母,水解的植物蛋白);Koji-Aji(Ajinomoto食品成分);发酵的小麦麸质;谷胱甘肽;谷氨酰基谷氨酸;(Z)-6-十二碳烯-4-内酯;肌苷酸;十二-Z6-烯-4-内酯;谷氨酸;L-乌头酸;N-(1-脱氧-果糖-1-基)谷氨酸酯;水解的植物蛋白;甲基α-D-葡萄糖苷;2,3-二-赖氨酸;甲基α-D-葡萄糖苷2,3-二-鸟氨酸;L-天冬酰胺;L-a-谷氨酰基-L-a-谷氨酰基-L-谷氨酸;L-a-天冬氨酰基-L-a-谷氨酰基-谷氨酰基缬氨酸;小麦麸质水解产物;天冬氨酸L-;L-a-天冬氨酰基-L-a-天冬氨酰基-L-a-天冬氨酰基-二十二碳六烯酸;以及(4Z,7Z,10Z,13Z,16Z,19Z)-L-茶氨酸;烯丙基半胱氨酸;丙烯基半胱氨酸;S-(α,β-二羧乙基)γ-L-谷氨酰基-L-半胱氨酰基-甘氨酸;S-(α,β-二羧乙基)半胱氨酸;3-(羧基甲氧基)-丙氨酸;S-羧甲基-谷胱甘肽(戊酰胺酸);S-羧甲基-半胱氨酰基-甘氨酸;(S-羧甲基)-赖氨酰基-半胱氨酸;S-二羧甲基-谷胱甘肽;S-羧甲基-半胱氨酸;S-(1,2-二羧乙基)-谷胱甘肽;以及S-(1,2-二羧乙基)-半胱氨酸;N-乙酰基GMP;N-甲酰基GMP;N-丙酰基GMP;N-丁酰基GMP;N-戊酰基GMP;N-己酰基GMP;N-庚酰基GMP;N-辛酰基GMP;N-草酰基GMP;N-琥珀酰基GMP;N-戊二酰基GMP;N-富马酰基GMP;N-马来酰基GMP;N-己二酰基GMP;N-柠檬酰基GMP;N-没食子酰基GMP;N-草乙酰基-GMP;N-阿魏酰基GMP;N-丙酮酰基GMP;N-苯甲酰基GMP;N-香草酰基GMP;N-氨茴酰基GMP;N-咖啡酰基GMP;N-肉桂酰基GMP;N-乙酰基AMP;N-甲酰基AMP;N-丙酰基AMP;N-丁酰基AMP;N-戊酰基AMP;N-己酰基AMP;N-庚酰基AMP;N-辛酰基AMP;N-草酰基AMP;N-琥珀酰基AMP;N-戊二酰基AMP;N-富马酰基AMP;N-马来酰基AMP;N-己二酰基AMP;N-柠檬酰基AMP;N-没食子酰基AMP;N-草乙酰基-AMP;N-阿魏酰基AMP;N-丙酮酰基AMP;N-苯甲酰基AMP;N-香草酰基AMP;

N-氨茴酰基AMP;N-咖啡酰基AMP;N-肉桂酰基AMP;N-乙酰基CMP;N-甲酰基CMP;N-丙酰基CMP;N-丁酰基CMP;N-戊酰基CMP;N-己酰基CMP;N-庚酰基CMP;N-辛酰基CMP;N-草酰基CMP;N-琥珀酰基CMP;N-戊二酰基CMP;N-富马酰基CMP;N-马来酰基CMP;N-己二酰基CMP;N-柠檬酰基CMP;N-没食子酰基CMP;N-草乙酰基-CMP;N-阿魏酰基CMP;N-丙酮酰基CMP;N-苯甲酰基CMP;N-香草酰基CMP;N-氨茴酰基CMP;N-咖啡酰基CMP;N-肉桂酰基CMP;N-乙酰基GMP;N-甲酰基GMP;N-丙酰基GMP;N-丁酰基GMP;N-戊酰基GMP;N-己酰基GMP;N-庚酰基GMP;N-辛酰基GMP;N-草酰基GMP;N-琥珀酰基GMP;N-戊二酰基GMP;N-富马酰基GMP;N-马来酰基GMP;N-己二酰基GMP;N-柠檬酰基GMP;N-没食子酰基GMP;N-草乙酰基-GMP;N-阿魏酰基GMP;N-丙酮酰基GMP;N-苯甲酰基GMP;N-香草酰基GMP;N-氨茴酰基GMP;N-咖啡酰基GMP;N-肉桂酰基GMP;美拉德(maillard)反应产生的风味改性剂;S-(α,β-二羧乙基)γ-L-谷氨酰基-L-半胱氨酰基-甘氨酸;S-(α,β-二羧乙基)半胱氨酸;3-(羧基甲氧基)-丙氨酸;S-羧甲基-谷胱甘肽(戊酰胺酸);S-羧甲基-半胱氨酰基-甘氨酸;(S-羧甲基)-赖氨酰基-半胱氨酸;S-二羧甲基-谷胱甘肽;S-羧甲基-半胱氨酸;S-(1,2-二羧乙基)-谷胱甘肽;以及S-(1,2-二羧乙基)-半胱氨酸;γ-L-谷氨酰基-L-半胱氨酰基-甘氨酸或者y-Glu-Cys-Gly;Rubemamine;rubemamide;rubescenamine;Rubescenamide;zanthosine;zanthosinamide;二草酰胺;二氧杂胺(dioxamine);zanthomamine和zanthomamide。

[0334] 鲜味化合物或鲜味增强化合物也可以包括具有以下序列的肽:Lys-Ile-His-Pro-Phe、Gly-Pro-Phe-Pro-Ile或Lys-Lys-Tyr-Lys-Val-Pro-Gln、Glu-Glu-Leu、Glu(Glu-Leu)、Leu-Glu-Glu、Glu-Asp-Phe、Glu-Glu-Ile、Asp-Glu-Leu和Glu-Leu-Glu。以及它们的N-乳酰基衍生物、Lys-Gly-Asp-Glu-Glu-Ser-Leu-Ala、Ser-Leu-Ala-Lys-Gly-Asp-Glu-Glu、Ser-Leu-Ala-Asp-Glu-Glu-Lys-Gly、Lys-Gly-Ser-Leu-Ala,-Asp-Glu-Glu、Lys-Gly-Asp-Glu-Glu、Glu-Glu-Asp-Gly-Lys或Asp-Glu-Glu(参见Nakata等人,Biosci.Biotechnol.Biochem.(1995)59(4):689-93)。

[0335] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种植物或动物产品。代表性的植物或动物产品包括但不限于:莪术皮提取物(莪术(Curcuma Zedoaria(Berg.)Rosc.));莪术(莪术);苜蓿提取物(紫苜蓿(Medicago Sativa L.));苜蓿草药和种子(紫苜蓿);褐藻提取物(巨藻属(Macrocystis)和海带属(Laminaria Spp.));红藻(紫菜属(Porphyra Spp.)和海萝藻和掌状红皮藻(Rhodymenia Palmata(L.)));红藻提取物提取物(紫菜属和海萝藻和掌状红皮藻(rhodymenia));朱草根提取物(紫朱牛舌草(Alkanna Tinctoria Tausch));多香果(众香树(Pimenta Officinalis Lindl.));多香果油(众香树);多香果油树脂(众香树);苦杏仁油(ffpa)(李属(Prunus Spp.));芦荟提取物(芦荟属(Aloe Spp.));黄葵纯化物油(黄葵(Hibiscus Abelmoschus L.));黄葵籽);黄葵籽油(黄葵);黄葵酊(黄葵);阿米香树(香脂檀(Amyris Balsamifera L.));阿米香树油(香脂檀);当归根(当归属(Angelica Spp.));当归根提取物(欧白芷(Angelica Archangelica L.));当归根油(欧白芷);当归籽(当归属);当归籽提取物(欧白芷);当归籽油(欧白芷);当归茎油(欧白芷);安哥拉草(roccella fuciformis ach.);安古斯图拉树皮(galipea offincinalis hancock);安古斯图拉树皮提取物(galipea officinalis hancock);茴香醛丙二醇缩醛;茴芹(茴芹(Pimpinella Anisum L.));茴芹油(茴芹);八角茴香(八角(Illicium Verum Hook,F.));八角茴香油(八角);胭脂树提取物(红木(Bixa Orellana

L.))；胭脂树种子(红木)；天然苹果香精；杏仁油(杏(Prunus Armeniaca L.))；山金车花(千里光属(Arnica Spp.))；竹芋淀粉；蒿属植物(蒿属(Artemisia Spp.))；蒿属植物提取物；蒿属植物油；朝鲜蓟叶(菜蓟(Cynara Scolymus L.))；阿魏流体提取物(阿魏(FerulaAssafoetida L.))；阿魏胶(阿魏)；阿魏油(阿魏)；芦笋种子和根提取物；贝克酵母提取物；贝克酵母聚糖；贝克酵母蛋白质；香蜂草(香蜂花(Melissa Officinalis L.))；香蜂草叶(香蜂花)；香蜂草叶提取物(香蜂花)；香蜂草油(香蜂花)；胶枞，针和细枝(香脂冷杉(Abies Balsamea(L.)Mill.))；胶枞油(香脂冷杉)；胶枞油树脂(香脂冷杉)；秘鲁香脂(秘鲁香树(Myroxylon Pereirae Klotzsch))；秘鲁香脂油(秘鲁香树)；罗勒(罗勒(Ocimum Basilicum L.))；罗勒灌木(灌木罗勒(ocimum minimum l.))；罗勒提取物(罗勒)；罗勒油(罗勒)；罗勒油树脂(罗勒)；月桂(月桂(Laurus Nobilis L.))；甜月桂叶提取物(月桂)；甜月桂叶油(月桂)；西印度月桂叶提取物(西印度月桂(Pimenta Acris Kostel))；西印度月桂叶油(众香(Pimenta Racemosa(Mill.)J.W.Moore))；西印度月桂叶油树脂(西印度月桂)；山毛榉木馏油(水青冈属(Fagus Spp.))；安息香树脂(安息香属(Styrax Spp.))；佛手柑油(香柠檬(Citrus Aurantium L.Subsp.Bergamia Wright Et Arn.))；甜桦木油(坚桦木(Betula Lenta L.))；桦木焦油(垂枝桦和相关的桦木属(Betula Pendula Roth And Related Betula Spp.))；黑莓树皮提取物(悬钩子属(Rubus,Spp.)，黑莓亚属(Eubatus))；黑莓果实提取物；卢氏黑黄檀油(紫檀(Aniba Rosaeodora Ducke))；博路都树叶(博路都树(Peumus Boldus Mol.))；干燥狐鲣；波罗尼花纯化物(大柱波罗尼亚(Boronia Megastigma Nees))；烟薰蔬菜肉汤；泻根根部(泻根属(Bryonia Spp.))；布枯叶(短布枯叶(Barosma Betulina)和圆叶布枯叶(Barosma Crenulata))；布枯叶提取物；布枯叶油(布枯属(Barosma Spp.))；睡菜叶(睡菜(Menyanthes Trifoliata L.))；睡菜叶提取物(睡菜)；白千层油(白千层(Melaleuca Leucadendron L.))；非洲防己根(非洲防己(Jatrorrhiza Palmata(Lam.)Miers))；非洲防己根提取物(非洲防己)；D-樟脑；日本白樟脑油(白樟(Cinnamomum Camphora(L.)Nees Et Eberm.))；樟脑油；formosan ho-sho叶(樟(Cinnamomum Camphora))；卡南加油(依兰(Cananga Odorata Hook.F.And Thoms.))；小烛树蜡(来自小烛树(Euphorbia Cerifera)的茎和枝干的蜡)；酸豆(刺山柑(Capparis Spinosa L.))；辣椒(辣椒属(Capsicum Spp.))；辣椒提取物(辣椒属)；辣椒油树脂(辣椒属)；焦糖；葛缕子(葛缕子(Carum Carvi L.))；黑种籽草(黑香种草(Nigella Sativa L.))；葛缕子油(葛缕子)；小豆蔻(小豆蔻(Elletaria Cardamomum(L.)Maton))；小豆蔻油树脂；小豆蔻种子油(小豆蔻)；稻子豆提取物(长角豆(Ceratonia Siliqua L.))；无苦味药鼠李提取物(波希鼠李(Rhamnus Purshiana Dc.))；卡藜树皮提取物(巴豆属(Croton Spp.))；卡藜树皮油(巴豆属)；酪蛋白；桂花子(肉桂(Cinnamomum Cassia Blume))；金合欢提取物(金合欢(Acacia Farnesiana(L.)Willd.))；海狸香提取物(蓖麻属(Castor Spp.))；海狸香液体(蓖麻属)；蓖麻油(蓖麻(Ricinus Communis L.))；黑儿茶提取物(儿茶(Acacia Catechu Willd.))；黑儿茶粉末(儿茶)；香柏叶油(北美香柏(Thuja Occidentalis L.))；香柏木油醇；香柏木油萜烯；芹菜籽(旱芹(Apium Graveolens L.))；芹菜籽提取物(旱芹)；芹菜籽提取物固体(旱芹)；芹菜籽油(旱芹)；芹菜籽；矢车菊(矢车菊(Centaurium Umbellatum Gilib.))；水解的谷类固体；黄春菊花(母菊(Matricaria Chamomilla L.))；黄春菊花(果香菊(Anthemis Nobilis L.))；匈牙利黄春菊花油(母菊)；

黄春菊花油(果香菊(Anthemis Nobilis L.));罗马黄春菊花提取物(果香菊);碳烟调味剂;野樱桃树皮提取物(美国樱桃(Prunus Serotina Ehrh.));樱桃月桂叶(桂樱(Prunus Laurocerasus L.));樱桃月桂油(桂樱)(ffpa);樱桃月桂水(桂樱);樱桃核提取物(李属(Prunus Spp.));山萝卜(蜡叶峨参(Anthriscus Cerefolium(L.)Hoffm.));山萝卜提取物(蜡叶峨参);栗子叶(美国栗树(Castanea Dentata(Marsh.)Borkh.));栗子叶提取物(美国栗树);栗子叶提取物固体(美国栗树);菊苣提取物(菊苣(Cichorium Intybus L.));托帕匡斯麻风树(卡亚(也被称为麻风树属));芡茨棕树胶(人心果(Manilkara Zapotilla Gilly));印度当药(印度獐牙菜(Swertia Chirata Buch.-Ham.));印度当药提取物(印度獐牙菜);香葱(北葱(Allium Schoenoprasum L.));红金鸡纳树皮(鸡纳树(Cinchona Succirubra Pav.)或其杂交种);红金鸡纳树皮提取物(鸡纳树或其杂交种);黄金鸡纳树皮(金鸡纳树属);黄金鸡纳树皮提取物(金鸡纳树属(Cinchona Spp.));金鸡纳提取物(金鸡纳树属);肉桂(樟属(Cinnamomum Spp.));肉桂皮提取物(樟属);肉桂皮油(樟属);锡兰、中国或西贡的肉桂皮油树脂(樟属);肉桂叶油(樟属);精制肉桂叶油;香茅油(亚香茅(Cymbopogon Nardus Rendle));柑橘皮提取物(柑橘属(Citrus Spp.));鼠尾草(香紫苏(Salvia Sclarea L.));快乐鼠尾草纯化物;鼠尾草油(香紫苏);快乐鼠尾草;丁香苞提取物(番樱桃属(Eugenia Spp.));丁香苞油(番樱桃属);丁香苞油树脂(番樱桃属);丁香叶油(番樱桃属);三叶草(车轴草属(Trifolium Spp.));三叶草提取物(车轴草属(Trifolium Spp.));三叶草草药馏出物;三叶草油(车轴草属);红三叶草提取物固体(红车轴草);丁香(番樱桃属);丁香茎油(番樱桃属);古柯叶提取物(非古柯碱麻醉的)(玻利维亚古柯树(Erythroxylon Coca Lam.));可可提取物;精制的具有磺基琥珀酸二辛基钠的可可;纯的咖啡浓缩物;咖啡提取物(咖啡属(coffea spp.));咖啡提取物固体;绿法国白兰地油;白法国白兰地油;苦配巴香脂(苦配巴(Copaifera L.)的南美属);苦配巴香脂油(苦配巴的南美属);胡荽(芫荽(Coriandrum Sativum L.));胡荽叶油(芫荽);胡荽油(芫荽(Coriandrum Sativum L.));软木橡树(栎属(Quercus Spp.));玉米须提取物(玉蜀黍(Zea Mays L.));玉米须油(玉蜀黍);艾菊(香脂菊(Chrysanthemum Balsamita L.));广木香根油(木香(Saussurea Lappa Clarke));脱脂的棉籽面粉;部分脱脂、煮熟的棉籽面粉;部分脱脂、煮熟、烘烤的棉籽面粉;生的无腺体的棉籽仁;烘烤的无腺体的棉籽仁;荜澄茄(毕澄茄(Piper Cubeba L.F.));荜澄茄油(毕澄茄);毕澄茄醇;小茴香(孜然(Cuminum Cyminum L.));小茴香油(孜然);黑醋栗芽纯化物(黑茶藨子(Ribes Nigrum L.));黑醋栗汁;黑醋栗叶(黑茶藨子);玳玳果皮油;达米阿那叶(特那树(Turnera Diffusa Willd.));蒲公英流体提取物(蒲公英属(Taraxacum Spp.));蒲公英根提取物固体(蒲公英属);印蒿油(印蒿(Artemesia Pallens Wall.));脱水甜菜;莳萝(莳萝(Anethum Graveolens L.));莳萝油(莳萝);印度莳萝种子(莳萝属(Anethum Spp.));莳萝种子油(印度莳萝(Anethum Sowa Roxb.));克里特白藓(白藓状牛至(Origanum Dictamnus L.));白藓(Dittany/Fraxinella)根(白藓(Dictamnus Albus L.));匍匐冰草提取物(匍匐冰草(Agropyron Repens(L.)Beauv.));血竭提取物(黄藤属(Daemonorops Spp.)或其他植物来源);干燥的水藻粉;接骨木花(美洲接骨木(Sambucus Canadensis L.)或西洋接骨木(Sambucus Nigra L.));接骨木花提取物(美洲接骨木或西洋接骨木);接骨木叶(西洋接骨木);土木香根提取物(土木香(Inula Helenium L.));土木香根油(土木香);榄香脂胶;榄香脂油(橄榄属(Canarium Spp.));加

拿大蓬油(加拿大蓬(Erigeron Canadensis L.));桉油精;桉树油(蓝桉(Eucalyptus Globulus Labille));丁子香酚;普通茴香(茴香(Foeniculum Vulgare Mill.));甜茴香(球茎茴香(Foeniculum Vulgare Mill.Var.Dulce(D.C.)Alef.));甜茴香油(球茎茴香);胡芦巴(胡芦巴(Trigonella Foenum-Graecum L.));胡芦巴提取物(胡芦巴);胡芦巴油树脂(胡芦巴);冷杉(松树)针和细枝(新疆冷杉(Abies Sibirica Ledeb.));冷杉针和细枝油(冷杉属(Abies Spp.));鱼油(氢化的);全鱼蛋白质浓缩物;鱼蛋白质分离物;水果汁;大高良姜(红豆蔻(Alpinia Galanga Willd));高良姜根(山姜属(Alpinia Spp.));高良姜根提取物(山姜属);高良姜根油(山姜属);白松香油(阿魏属(Ferula Spp.));白松香树脂(阿魏属);棕儿茶(儿茶钩藤(Uncaria Gambir Roxb.));胶栀子(Gardenia Gummifera)馏出物;大蒜;大蒜提取物;大蒜油(蒜(Allium Sativum L.));明胶;鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.));鹰爪豆提取物(鹰爪豆);龙胆根提取物(黄龙胆(Gentiana Lutea L.));无茎龙胆(无茎龙胆(Gentiana Acaulis L.));天竺葵(天竺葵属(Pelargonium Spp.));东印度天竺葵提取物(玫瑰草(Cymbopogon Martini Stapf.));东印度天竺葵油(玫瑰草);天竺葵提取物(天竺葵属(Pelargonium Spp.));天竺葵油(天竺葵属);玫瑰天竺葵油(香叶天竺葵(Pelargonium Graveolens L'her.));石蚕(婆婆纳(Teucrium Chamaedrys L.));石蚕提取物(婆婆纳);石蚕提取物固体(婆婆纳(Teucrium Chamaedrys L.));金石蚕(金石蚕(Teucrium Polium L.));轧的树胶(阔叶榆绿木(Anogeissus Latifolia Wall.));姜(生姜(Zingiber Officinale Rosc.));姜提取物(生姜);姜油(生姜);姜油树脂(生姜);加氨甘草甜素(甘草属(Glycyrrhiza Spp.));乐园子(摩洛哥豆蔻(Aframomum Melegueta(Rosc.)K.Schum.));葡萄色提取物;天然葡萄香精;天然葡萄柚香精;葡萄柚提取物;葡萄柚汁;葡萄柚油(葡萄柚(Citrus Paradisi Macf.));葡萄柚油浓缩物;无萜葡萄柚油(葡萄柚(citrus paradisi));葡萄籽提取物;葡萄皮提取物;石灰石粉;愈创木胶(愈创木属(Guaiacum Spp.));愈创木胶提取物(愈创木属);愈创木提取物(愈创木属);愈创木油(愈创木属);瓜拉纳胶(瓜拉纳(Paullinia Cupana Hbk));瓜拉纳种子提取物;番石榴(番石榴属(Psidium Spp.));番石榴提取物;阿拉伯胶;古塔胶(palaquium leiocarpum boerl.和p.oblongifolium burck.);食用红球藻(Haematococcus Algae Meal);黑山楂树皮提取物(梨叶荚蒾(Viburnum Prunifolium L.));长柄日光菊(Heliopsis Longipes)提取物;铁杉(铁杉属(Tsuga Spp.));铁杉针和细枝油(铁杉属);山核桃木皮提取物(山核桃属(Carya Spp.));山核桃木烟馏出物;忍冬提取物;啤酒花提取物(啤酒花(Humulus Lupulus L.));改性的啤酒花提取物;啤酒花提取物固体(啤酒花);啤酒花油(啤酒花);夏至草提取物(欧夏至草(Marrubium Vulgare L.));夏至草(欧夏至草);夏至草固体提取物;马薄荷叶提取物(美国薄荷属(Monarda Spp.));辣根(辣根(Armoracia Lapathifolia Gilib.));辣根油;风信子纯化物(风信子(Hyacinthus Orientalis L.));风信子花(风信子);海索草提取物(神香草(Hyssopus Officinalis L.));海索草(神香草);海索草油(神香草);冰岛苔(冰岛地衣(Cetraria Islandica Ach.));蜡菊纯化物(蜡菊(Helichrysum Angustifolium Dc));蜡菊提取物(蜡菊(Helichrysum Angustifolium Dc.));王草(欧前胡(Peucedanum Ostruthium(L.)Koch(Imperatoria Ostruthium L.)));iva(麝香蓍草(Achillea Moschata Jacq.));iva提取物(麝香蓍草);莲雾油树脂;日本蜡;茉莉纯化物(素馨属(Jasminum Spp.));茉莉凝结物

(素馨属);茉莉油(素馨花(Jasminum Grandiflorum L.));茉莉酯剂(素馨花);节路顿胶(小脉竹桃木(Dyera Costulata Hook,F.)和洛氏竹桃木(D.Lowii Hook,F.));杜松(浆果)(欧洲刺柏(Juniperus Communis L.));杜松提取物(欧洲刺柏);杜松油(欧洲刺柏);卡拉牙胶(刺苹婆树(Sterculia Urens Roxb.));海草;可乐果提取物(可乐果(Cola Acuminata Schott Et Endl.));岩蔷薇纯化物(岩蔷薇属(Cistus Spp.));岩蔷薇油(岩蔷薇属);岩蔷薇油树脂(岩蔷薇属);月桂浆果(月桂(Laurus Nobilis L.));醒目熏衣草纯化物;醒目熏衣草凝结物;醒目熏衣草油;熏衣草纯化物(熏衣草(Lavandula Officinalis Chaix));熏衣草凝结物(熏衣草);熏衣草(熏衣草);熏衣草油(熏衣草);穗花熏衣草(穗花熏衣草(Lavandula Latifolia Bill.));穗花熏衣草油(熏衣草属(Lavandula Spp.));夹竹桃科树胶(leche caspi,couma macrocarpa barb.rodr.);桑科树胶(leche de vaca,良木饱食桑木(Brosimum Utile(H.B.K.)Pittier)和刺枝桑属(Poulsenia Spp.));韭菜油;柠檬香精;柠檬提取物(柠檬(Citrus Limon(L.)Burm.F.));柠檬草油(柠檬草(Cymbopogon Citratus Dc.)和印度香茅(Cymbopogon Flexuosusstapf));柠檬汁;柠檬油(柠檬);无萜柠檬油(柠檬);柠檬皮提取物;柠檬皮颗粒;柠檬萜烯;柠檬马鞭草(柠檬过江藤(Lippia Citriodora Hbk.));柠檬马鞭草油(柠檬过江藤);甘草提取物(甘草属(Glycyrrhiza Spp.));甘草提取物粉末(甘草属);甘草(甘草属);酸橙香精;酸橙汁;脱水酸橙汁;蒸馏酸橙油;压榨酸橙油;无萜的酸橙油(来檬(Citrus Aurantifolia(Christman)Swingle));沉香木油(墨西哥沉香木(Bursera Delpechiana Poiss.)和其他的裂榄属(Bursera Spp.));椴树花提取物(椴属(Tilia Spp.));椴树花(tilia glabra vent.);椴树叶(椴属);山苍子浆果油;槐(角豆树)豆胶;独活草提取物(欧当归(Levisticum Officinale Koch));独活草(欧当归);独活草油(欧当归);罗汉果浓缩物;啤酒花苦味素(啤酒花(Humulus Lupulus L.));肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.));肉豆蔻油(肉豆蔻);肉豆蔻油树脂(肉豆蔻);铁线蕨(铁线蕨(Adiantum Capillus-Veneris L.));麦芽糖浆(麦芽提取物);柑橘油(柑橘(Citrus Reticulata Blanco));盆栽金盏菊(金盏花(Calendula Officinalis L.));墨角兰油树脂(马郁兰(marjorana hortensis moench(origanum majorana l.)));盆栽墨角兰(牛至(Majorana Onites(L.)Benth.(Origanum Vulgare L.)));墨角兰种子(马郁兰(Majorana Hortensis Moench(Origanum Majorana L.)));甜墨角兰(马郁兰);甜墨角兰油(马郁兰);二齿铁线子胶(manilkara huberi(ducke)chevalier);二齿铁线子胶;无溶剂树脂提取物;巧克力铁线子胶(manilkara solimoesensis gilly);厚壳桂皮油;乳香胶;马黛茶纯化物(巴拉圭冬青(Ilex Paraguariensis St.Hil.));马黛茶叶;鲱油;氢化鲱油;部分氢化的鲱油;薄荷醇;牧豆树提取物;酶改性的全奶粉;含羞草纯化物(银荆树(Acacia Decurrens Willd.Var.Dealbata));含羞草凝结物(银荆树);白矿物油;糖蜜浓缩物;糖蜜提取物(甘蔗(Saccharum Officinarum L.));糖蜜(甘蔗);山枫(穗花槭(Acer Spicatum Lam.));山枫树皮(穗花槭);山枫提取物固体(穗花槭);毛蕊花(毛蕊花属(Verbascum Spp.));蒸馏的蘑菇油;葵子麝香;麝香酮;藏麝香(原麝(Moschus Moschiferus L.));棕芥(芸薹属(Brassica Spp.));棕芥提取物(芸薹属);芥末粉;芥末油;东方芥末;黄芥(芸薹属);黄芥提取物(芸薹属);没药提取物;没药胶(没药属(Commiphora Spp.));没药油(没药属);桃金娘叶(香桃木(Myrtus Communis L.));桃金娘油(香桃木);柚皮苷提取物(葡萄柚(Citrus Paradisi Macf.));乳酸链球菌肽制剂;肉豆

蔻(肉豆蔻(Myristica Fragrans Houtt.));肉豆蔻油(肉豆蔻);白橡木提取物(白栎(Quercus Alba L.));橡木苔藓纯化物(扁枝衣属(Evernia Spp.));橡木苔藓凝结物(栎扁枝衣属(Evernia Prunasti Spp.));英国橡木(夏栎(Quercus Robur L.));燕麦胶;奥蒂树油;油酸;来自妥尔油脂肪酸的油酸;蔗糖聚酯;油烯基醇;乳香纯化物(乳香属(Boswellia Spp.));乳香胶树脂(乳香属(Boswellia Spp.));乳香油(乳香属(Boswellia Spp.));树脂型乳香(乳香属);洋葱油(洋葱(Allium Cepa L.));愈伤草胶;非特异性愈伤草;愈伤草油;愈伤草酊;橙子b;天然橙子香精;天然橙子香精油;橙子提取物;橙子花纯化物(酸橙(Citrus Aurantium L.));苦橙花(酸橙);橙子汁;橙子叶纯化物(酸橙);蒸馏的橙子油(甜橙(Citrus Sinensis(L.)Osbeck));无萜橙子油(甜橙);橙子皮;苦橙皮提取物(酸橙);苦橙皮油(酸橙);甜橙皮提取物(甜橙);甜橙皮油(甜橙);无萜甜橙皮油(甜橙);欧洲牛至(牛至属(Origanum Spp.));牛至(过江藤属(Lippia Spp.),通常为墨西哥牛至(Usually L.Graveolens Hbk));牛至(其他属,包括鞘蕊花属、马缨丹属和山香属);牛至油(提取物)(头状百里香(Thymus Capitatus Hoff.Et Link));奥林内酯(Orin Lactone);l-鸟氨酸单盐酸盐/鸟氨酸;鸢尾草凝结物液体油(香根鸢尾(Iris Florentina L.));鸢尾草根提取物(香根鸢尾(Iris Florentina L.));桂花纯化物;牛胆汁提取物;三色堇(三色堇(Viola Tricolor L.));木瓜蛋白酶(carica papaya l.);红辣椒(辣椒(Capsicum Annuum L.));红辣椒油树脂(辣椒);荷兰芹油(欧芹属(Petroselinum Spp.));荷兰芹油树脂(欧芹属);荷兰芹(欧芹属);西番莲提取物;西番莲(西番莲(Passiflora Incarnata L.));广藿香油(刺蕊草属(Pogostemon Spp.));桃仁提取物(京桃(Prunus Persica Sieb Et Zucc.));桃叶提取物(桃(Prunus Persica(L.)Batsch));桃叶(桃);花生油;花生硬脂精(落花生(Arachis Hypogaea L.));美洲山核桃壳粉;美洲薄荷油(普列薄荷(Hedeoma Pulegiodes(L.)));欧洲薄荷油(唇萼薄荷(Mentha Pulegium L.));黑胡椒油(胡椒(Piper Nigrum L.));黑胡椒油树脂(胡椒);黑胡椒(胡椒);红椒;胡椒薄荷叶(辣薄荷(Mentha Piperita L.));胡椒薄荷油(辣薄荷);胡椒薄荷植物;红辣椒;白胡椒油(胡椒);白胡椒油树脂(胡椒);白胡椒(胡椒);紫苏叶油;橙叶;柠檬油(柠檬(Citrus Limon(L.)Burm.F.));橙叶;柑橘油(柑橘(Citrus Reticulata Blanco Var.Mandarin));橙叶油(酸橙);众香子叶油(众香树(Pimenta Officinalis Lindl.));3-松茨酮;白松树皮;提取物固体(北美乔松(Pinus Strobus L.));白松树皮油(北美乔松);白松树皮(北美乔松);矮松针油(欧洲山松(Pinus Mugo Turra Var.Pumilio(Haenke)Zenari));欧洲赤松油(欧洲赤松(Pinus Sylvestris L.));松焦油(松属(Pinus Spp.));白松油(松属);石榴皮提取物(石榴(Punica Granatum L.));杨树芽(杨属(Populus Spp.));罂粟籽(罂粟(Papaver Somniferum L.));花椒皮提取物(秦椒属(Xanthoxylum Spp.));花椒皮油;水解的动物蛋白质;蛋白质水解产物;水解的奶蛋白质;水解的蔬菜蛋白质;胡薄荷酮提取物(牙买加苦木(Picrasma Excelsa(Sw.)Planch)或苏林南苦木(Quassia Amara L.));白坚木皮提取物;皂树提取物(皂树);皂树(皂树);榅桲籽提取物(榅桲属(Cydonia Spp.));娜檀根提取物(刺球果属(Krameria Spp.));食用大黄根(食用大黄(Rheum Rhaponticum L.));大黄根(大黄属(Rheum Spp.));玫瑰纯化物(蔷薇属(Rosa Spp.));玫瑰花苞(蔷薇属);玫瑰花(蔷薇属);玫瑰果提取物(蔷薇属);玫瑰叶(蔷薇属);玫瑰茄(玫瑰茄(Hibiscus Sabdariffa L.));迷迭香提取物(迷迭香(Rosmarinus Officinalis L.));迷迭香油(迷迭香);迷迭香油树脂;迷迭香(迷迭香

()；玫瑰油(蔷薇属)；浓玫瑰水(百叶蔷薇(Rosa Centifolia L.))；山榄胶(山榄属(Micropholis Spp.)(也被称为铁榄属(Sideroxylon Spp.)))；松香甘油酯；脂松香甘油酯；部分氢化的脂松香或木松香甘油酯；部分氢化的脂松香或木松香季戊四醇酯；脂松香或木松香季戊四醇酯；石灰松香；部分氢化的松香甲基酯；部分二聚化的松香钙盐；部分二聚化的松香甘油酯；部分氢化的松香；松香(松属(Pinus Spp.))以及松香衍生物；聚合的松香甘油酯；松香妥尔油甘油酯；木松香；木松香甘油酯；木松香油(芸香(Ruta Graveolens L.))；芸香(芸香)；朗姆酒；藏红花(番红花(Crocus Sativus L.))；藏红花提取物(番红花)；黄樟素禁止的黄樟的不含黄樟素的提取物；希腊鼠尾草(希腊苏草(Salvia Triloba L.))；鼠尾草油(药用鼠尾草(Salvia Officinalis L.))；鼠尾草油树脂(药用鼠尾草)；鼠尾草(药用鼠尾草)；西班牙鼠尾草油(薰衣草叶鼠尾草(Salvia Lavandulaefolia Vahl.))；紫檀(檀香紫檀(Pterocarpus Santalinus L.F.))；白檀(檀香(Santalum Album L.))；黄檀油(檀香)；山达脂(山达脂柏(Tetraclinis Articulata(Vahl.)Mast.))；佛手油；菝葜提取物(菝葜属(Smilax Spp.))；黄樟树皮提取物(不含黄樟素)(北美檫树(Sassafras Albidum(Nutt.)Nees))；黄樟叶(不含黄樟素)(北美檫树)；肠衣(hcl和纤维素纤维)；夏香薄荷油(夏香薄荷(Satureja Hortensis L.))；夏香薄荷油树脂(夏香薄荷)；夏香薄荷(Satureja Hortensis L.)；冬香薄荷油(冬香薄荷(Satureja Montana L.))；冬香薄荷油树脂(冬香薄荷)；冬香薄荷(冬香薄荷)；柔毛肖乳香油(柔毛肖乳香(Schinus Molle L.))；苏格兰绿薄荷油；亚历山大番泻叶(尖叶番泻树(Cassia Acutifolia Delile))；蛇根(蛇根马兜铃(Aristolochia Serpentaria L.))；芝麻(芝麻(Sesamum Indicum L.))；银杉针和细枝油(欧洲冷杉(Abies Alba Mill.))；银-银糖衣丸(Silver-Silver Dragees)；苦楝树皮(管状苦水(Simaruba Amara Aubl.))；黑刺李浆果提取物(黑刺李(Prunus Spinosa L.))；黑刺李浆果提取物固体(黑刺李)；黑刺李浆果(黑刺李)；加拿大蛇根草油(加拿大细辛(Asarum Canadense L.))；羟基化的大豆油脂肪酸；乙氧基化的大豆脂肪酸胺；环氧化的大豆油；氢化的大豆油；酶活化的大豆蛋白浓缩物；大豆蛋白分离物；绿薄荷提取物(留兰香(Mentha Spicata L.))；绿薄荷(留兰香)；绿薄荷油(留兰香)；甘松提取物；云杉针和细枝提取物(云杉属(Picea Spp.))；云杉针和细枝油(云杉属)；圣约翰草叶、花和茎(贯叶金丝桃(Hypericum Perforatuml.))；苏合香提取物(枫香属(Liquidambar Spp.))；苏合香(枫香属)；苏合香油；甜菜汁提取物；甜菜提取物调味料基质；甜黑莓叶提取物；万寿菊粉和提取物；万寿菊油(万寿菊属(Tagetes Spp.))；氢化牛脂醇；牛脂；牛肉；牛脂片；氢化牛脂；氢化、氧化或硫酸化的牛脂；罗望子提取物(酸豆(Tamarindus Indica L.))；罗望子；橘子香精；橘子提取物(柑橘(Citrus Reticulata Blanco))；橘子油(柑橘)；鞣酸；艾菊油(菊蒿(Tanacetum Vulgara L.))；艾菊(菊蒿)；龙嵩(龙蒿(Artemisia Dracunculus L.))；龙嵩提取物(龙蒿)；龙嵩油(龙蒿)；茶提取物(茶(Thea Sinensis L.))；茶树油(互生叶白千层(Melaleuca Alternifolia))；祝福蓟(藏掖花(Cnicus Benedictus L.))；祝福蓟提取物(藏掖花)；祝福蓟提取物固体(藏掖花)；祝福蓟油(藏掖花)；百里香提取物；百里香油(百里香(Thymus Vulgaris L.)和t.zygis var.gracilis boiss.)；百里香油树脂；百里香(铺地百里香(Thymus Serpyllum L.))；百里香(百里香)；野百里香或铺地百里香提取物(铺地百里香(Thymus Serpyllum L.))；百里香酚；香脂提取物(南美槐属(Myroxylon Spp.))；妥卢香脂胶(南美槐属(Myroxylon Spp.))；黄芪胶(黄耆属(Astragalus Spp.))；甜三叶草

(melilotus coerulea)；三醋酸甘油酯(三乙酸甘油酯)；油(晚香玉(Polianthes Tuberosa L.))；卡斯德拉胶(Tunu)(castilla fallax cook)；姜黄(姜黄(Curcuma Longa L.))；姜黄提取物(姜黄)；姜黄油树脂(姜黄)；缬草根提取物(缬草(Valeriana Officinalis L.))；缬草根油(缬草)；香草纯化物(香荚兰属(Vanilla Spp.))；香草提取物(香荚兰属)；香草油树脂(香荚兰属)；香草(香荚兰属(Vanilla Spp.))；蔬菜汁；veronica(水苦叶(Veronica Officinalis L.))；欧洲马鞭草(马鞭草(Verbena Officinalis L.))；岩兰草油(香根(Vetiveria Zizanioides Stapf))；岩兰草醇；岩兰草(香根)；紫罗兰叶纯化物(香堇菜(Viola Odorata L.))；瑞士紫罗兰(viola calcarata l.)；胡桃壳提取物(胡桃属(Juglans Spp.)；胡桃叶提取物(胡桃属)；小麦麸质；乳清；脱乳糖的乳清；去矿物质的乳清；部分去矿物质且部分脱乳糖的乳清；乳清蛋白浓缩物；冬青提取物(平铺白珠树(Gaultheria Procumbens L.))；冬青油(平铺白珠树(Gaultheria Procumbens L.))；甜车叶草(车轴草(Asperula Odorata L.))；麦芽汁；蓍草草药(蓍(Achillea Millefolium L.))；蓍草油(蓍)；酵母自溶产物；经干燥辐射的酵母；自溶的酵母提取物；酵母-麦芽提取物；酵母；干酵母；巴拉圭茶流体提取物(北美圣草(Eriodictyon Californicum(Hook And Arn)Torr))；依兰树油(依兰(Cananga Odorata Hook.F.And Thomas))；短叶丝兰(小叶丝兰(Yucca Brevifolia Engelm.))；莫哈弗丝兰提取物(丝兰属(Yucca Spp.))；以及巴西莓提取物。

[0336] 在一些实施方案中，植物或动物产品是烹调香草(culinary herb)或香辛料。代表性的烹调香草和香辛料包括但不限于：胡萝卜；脱水胡萝卜；胡萝卜提取物；欧防风；脱水欧防风；欧防风提取物；洋葱；脱水洋葱；洋葱粉末；洋葱片；洋葱提取物；大蒜；脱水大蒜；大蒜片；大蒜粉末；大蒜提取物；酪乳；酪乳粉；酪乳固体；乳清；乳清粉末；乳清固体；奶；降脂奶；奶粉；奶固体；奶油；奶酪；奶酪粉；奶酪固体；奶酪发酵剂；胭脂树；姜黄；酪蛋白酸钠；奶蛋白质；奶蛋白质的酶消化物；番茄；番茄酱；番茄粉；番茄沙司；番茄提取物；脱水番茄；酸奶油；酸奶油固体；焦糖色；大豆粉；香葱；脱水香葱；香葱粉；阿伽汶(ajwain)；葛菱子(carom)种子(印度藏茴香(trachyspermum ammi))；灌木蕃茄(akudjura)(solanum centrale)；用于红色的朱草(紫朱牛舌草(alkanna tinctoria))；鳄椒；mbongo香辛料(mbongochobi)；hepper胡椒(aframomum danielli,a.citratum,a.exscapum)；多香果(多香果(pimenta dioica))；当归(欧白芷(angelica archangelica))；茴芹(茴芹(pimpinella anisum))；茴芹海索草(茴藿香(agastache foeniculum))；八角桃金娘(茴香蒲桃(syzygium anisatum))；胭脂树(红木(bixa orellana))；苹果薄荷(圆叶薄荷(mentha suaveolens，mentha×rotundifolia)和长柔毛薄荷(mentha×villosa))；蒿属植物(蒿属(Artemisia Spp.))；阿魏(阿魏(ferula assafoetida))；欧洲细辛(asarabacca)(欧洲细辛(asarum europaeum))；水杨梅(欧亚路边青(geum urbanum))；鳄梨叶(鳄梨(persea americana))；伏牛花(刺檗(berberis vulgaris)和其他的小檗属(berberis spp.))；甜罗勒(罗勒(ocimum basilicum))；圣罗勒(小冠薰(ocimum tenuiflorum))；柠檬罗勒(柠檬罗勒(ocimum×citriodorum))；泰国罗勒(泰国罗勒(o.basilicum var.thyrsiflora))；月桂叶(月桂(laurus nobilis))；印度月桂叶；柴桂；柴桂(malabathrum)；香蜂草(美国薄荷(monarda didyma))；波耳多叶(博路都树(peumus boldus))；玻璃苣(玻璃苣(borago officinalis))；蓝胡芦巴；蓝草木犀(卢豆(trigonella caerulea))；酸豆(刺山柑

capparis spinosa)；葛缕子(葛缕子(carum carvi))；小豆蔻(小豆蔻(elettaria cardamomum))；黑色小豆蔻(香豆蔻(amomum subulatum)，皂果砂仁(amomum costatum))；肉桂(肉桂(cinnamomum aromaticum))；猫薄荷(荆芥(nepeta cataria))；红椒(辣椒(capsicum annuum))；芹菜叶(芹菜(apiumi graveolens))；芹菜籽(芹菜)；山萝卜(蜡叶峨参(anthriscus cerefolium))；菊苣(菊苣(cichorium intybus))；红辣椒(辣椒属(Capsicum Spp.))；欧洲没药；甜欧洲没药(欧洲没药(myrrhis odorata))；芫荽；绿胡荽；胡荽草药(芫荽(coriandrum sativum))；印尼肉桂(阴香(cinnamomum burmannii,cassia vera))；西贡肉桂或越南肉桂(cinnamomum loureiroi)；真肉桂或锡兰肉桂(cinnamomum verum,c.zeylanicum)；白肉桂(白肉桂(canella winterana))；肉桂桃金娘(檬香桃木(backhousia myrtifolia))；鼠尾草；快乐鼠尾草(香紫苏(salvia sclarea))；丁香(丁香(syzygium aromaticum))；胡荽种子(芫荽(coriandrum sativum))；越南胡荽(越南香菜(Persicaria Odorata))；艾菊(艾菊(tanacetum balsamita))；荜澄茄(毕澄茄(piper cubeba))；鼠麴草(鼠麴草属(gnaphalium spp.))；刺芹；刺芫荽；长胡荽(刺芹(eryngium foetidum))；小茴香(孜然(cuminum cyminum))；咖喱叶(九里香(murraya koenigii))；咖喱植物(意大利腊菊(helichrysum italicum))；莳萝草药或草(莳萝(anethum graveolens))；莳萝种子(莳萝)；接骨木花(接骨木属(sambucus spp.))；土荆芥(土荆芥(dysphania ambrosioides))；茴香(球茎茴香(foeniculum vulgare))；胡芦巴(trigonella foenum-graecum)；黄樟(filé)粉；秋葵黄樟(gumbo filé)(北美檫树(sassafras albidum))；手指根；沙姜(krachai)；temu kuntji(凹唇姜(boesenbergia rotunda))；大高良姜(红豆蔻(alpinia galanga))；高良姜(高良姜(alpinia officinarum))；高莎草(莎草属(cyperus spp.))；韭菜(韭(allium tuberosum))；姜(生姜(zingiber officinale))；火炬姜；瓷玫瑰(bunga siantan)(etlingera elatior)；golpar；波斯豕草(欧洲独活草(heracleum persicum))；乐园子(摩洛哥豆蔻(aframomum melegueta))；塞利姆谷物；卡尼胡椒(埃塞木瓣树(xylopia aethiopica))；辣根(辣根(armoracia rusticana))；鱼腥草(houttuynia cordata)(越南)；马逊薄荷(huacatay)；墨西哥金盏花；薄荷金盏花(小万寿菊(tagetes minuta))；海索草(神香草(hyssopus officinalis))；印尼月桂叶；莎兰叶(daun salam)(黄金蒲桃(syzygium polyanthum))；茉莉花(素馨属(Jasminum Spp.))；绞股蓝(绞股蓝(gynostemma pentaphyllum))；jimbu(allium hypsistum)；杜松(欧洲刺柏(juniperus communis))；卡菲尔酸橙叶；泰国柠檬叶(箭叶橙(citrus hystrix))；kala zeera(或kala jira)；黑小茴香(伊朗布留芹(bunium persicum))；卡瓦胡椒种子(卡瓦胡椒(macropiper excelsum))；黑果(keluak)；kluwak，kepayang(潘济木(pangium edule))；沙姜(kencur)；galangal，kentjur(山柰(kaempferia galanga))；kinh gioi；越南香蜂草(香薷(elsholtzia ciliata))；坎果种子(印度藤黄(garcinia indica))；korarima；埃塞俄比亚小豆蔻；假小豆蔻(埃塞俄比亚椒蔻(aframomum corrorima))；koseret叶(阿登过江藤(lippia adoensis))；熏衣草(熏衣草属(Lavandula Spp.))；柠檬香蜂草(香蜂花(melissa officinalis))；柠檬铁皮木(尤加利(eucalyptus staigeriana))；柠檬桃金娘(柠檬桃金娘(backhousia citriodora))；柠檬马鞭草(柠檬过江藤(Lippia Citriodora))；柠檬草(柠檬草(cymbopogon citratus)，印度香茅(c.flexuosus)和其他的香茅属(cymbopogon spp.))；两色筒叶兰(leptotes

bicolor);新风轮菜(lesser calamint)(假荆芥风轮(calamintha nepeta));nipitella;nepitella;甘草(licorice);甘草根(liquorice)(洋甘草(glycyrrhiza glabra));酸橙花;椴树花(椴属(Tilia Spp.));独活草(levisticum officinale);肉豆蔻(肉豆蔻(myristica fragrans));mahleb;st.lucie樱桃(圆叶樱桃(prunus mahaleb));墨角兰(马郁兰(Origanum Majorana));乳香(乳香黄连木(pistacia lentiscus));薄荷(薄荷属(mentha spp.)),25个物种,数百个变种;山霍罗皮托(mountain horopito)(霍罗皮托(pseudowintera colorata));“胡椒-植物”;麝香锦葵;秋葵(黄葵(abelmoschus moschatus));黑芥,芥末植株,芥末种子(黑芥(brassica nigra);棕芥,芥末植株,芥末种子(芥菜(brassica juncea));白芥,芥末植株,芥末种子(白芥(sinapis alba));黄芥(brassica hirta＝sinapis alba);黑种草(nigella,kalonji);黑种籽草;黑洋葱种子(黑香种草(nigella sativa));njangsa;djansang(拟蓖麻(ricinodendron heudelotii));肉豆蔻(肉豆蔻myristica fragrans);olida(草莓尤加利(eucalyptus olida));牛至(牛至(origanum vulgare),希腊牛至(o.heracleoticum)和其他物种);古巴牛至(左手香(plectranthus amboinicus));鸢尾草根(德国鸢尾(iris germanica),香根鸢尾(i.florentina),香根鸢尾(i.pallida));班兰花;kewra(露兜树(pandanus odoratissimus));班兰叶;screwpine(香露兜(pandanus amaryllifolius));红辣椒(辣椒(capsicum annuum));天神草(金钮扣(spilanthes acmella,soleracea));荷兰芹(欧芹(petroselinum crispum));黑胡椒,白胡椒和青椒(胡椒(piper nigrum));巴西胡椒或粉红胡椒(巴西胡椒(schinus terebinthifolius));多里戈胡椒(tasmannia stipitata);荜茇(pepper,long/piper longum);山胡椒;cornish胡椒叶(假八角(Tasmannia Lanceolata));胡椒薄荷(白兰地薄荷(mentha piperata));胡椒薄荷胶叶(丰桉(eucalyptus dives));紫苏(perilla,shiso)(紫苏属(perilla spp.));秘鲁胡椒(青香木(schinus molle));苦木(苏林南苦木(quassia amara));稻米草(紫苏草(limnophila aromatica));迷迭香(迷迭香(rosmarinus officinalis));芸香(芸香(ruta graveolens));红花(红花(carthamus tinctorius));藏红花(番红花(crocus sativus));藏红花的贸易和使用;鼠尾草(药用鼠尾草(salvia officinalis));西贡肉桂(越南肉桂(cinnamomum loureiroi));沙拉地榆(小地榆(sanguisorba minor));色列普淀粉(salep)(雄红门兰(orchis mascula));黄樟(北美檫树(sassafras albidum));夏香薄荷(夏香薄荷(satureja hortensis));冬香薄荷(冬香薄荷(satureja montana));紫苏(紫苏(perilla frutescens));罗盘草;silphion;laser;laserpicium;lasarpicium,sorrel(酸模(rumex acetosa));sorrel,sheep(小酸模(rumex acetosella));绿薄荷(留兰香(mentha spicata));甘松(匙叶甘松(nardostachys grandiflora)或匙叶甘松(n.jatamansi));八角茴香(八角(illicium verum));漆树(西西里漆树(rhus coriaria));甜车叶草(车轴草(galium odoratum));花椒(Szechuan Pepper);四川花椒(花椒(zanthoxylum piperitum));龙嵩(龙蒿(artemisia dracunculus));百里香(百里香(thymus vulgaris));柠檬百里香(柠檬百里香(thymus×citriodorus));姜黄(姜黄(curcuma longa));香草(香荚兰(vanilla planifolia));voatsiperifery(马达加斯加野生胡椒(piper borbonense));山葵(wasabi)(日本山葵(wasabia japonica));水蓼;荨麻(水蓼(polygonum hydropiper));豆瓣菜(西洋菜(rorippa nasturtium-aquatica));金合

欢籽;野百里香(铺地百里香(thymus serpyllum));柳草(小花柳叶菜(epilobium parviflorum));冬青(平铺白珠树(gaultheria procumbens));水杨梅;路边青(herb bennet)(欧亚路边青(geum urbanum));车叶草(车轴草(galium odoratum));苦艾(wormwood),苦艾(absinthe)(中亚苦蒿(artemisia absinthium));加州小薄荷(yerba buena);蓍草(蓍(achillea millefolium));za'atar(来自牛至属、新风轮属、百里香属和香薄荷属的草药);莪术(莪术(curcuma zedoaria));草药混合物;咖喱;tandoor masala;garam masala;chaat masala;tikka masala;masala dosa;paan masala;biryani masala;berbere;jerk seasonings和spice rubs。

[0337] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种脂肪、油或乳剂。代表性的脂肪、油和乳剂包括但不限于:玉米油;花生油;大豆油;棕榈油;棉籽油;椰子油;芥花油;油菜籽油;橄榄油;红花油;向日葵油;芝麻油;杏仁油;山毛榉子油;巴西胡桃油;腰果油;亚麻籽油;亚麻仁油;榛子油;mongongo坚果油;美洲山核桃油;松子油;阿月浑子油;胡桃油;葡萄籽油;葡萄柚种子油;柠檬油;橙子油;矿物油;矿脂;黄瓜油;苦瓜油;葫芦油;印度葫芦油;冬南瓜油;南瓜油;南瓜籽油;西瓜种子油;大麻油;蓖麻油;黄油;猪油;人造黄油;可可油;乳脂;鲸油(whale oil);鲸油(sperm oil);鱼油;鱼肝油;鲨鱼肝油;磷虾油;虾油;鳕鱼油;鲑鱼油;鲱鱼油;凤尾鱼油;香鱼油;蜡烛鱼油;鲱属小海鱼油;沙丁鱼油;鲭鱼油;方头鱼油;金枪鱼(Thunnus)油;剑鱼油;澳洲坚果油;巴西莓油;黑醋栗种子油;玻璃苣种子油;月见草油;苋菜油;小麦油;小麦胚芽油;杏油;摩洛哥坚果油;朝鲜蓟油;鳄梨油;babassu油;辣木油;牛油果油;婆罗牛油果油;角豆树豆荚油;角豆树油;胡妥种子油;亚麻油;木棉种子油;扁柄草属油;白芒花籽油;芥末油;秋葵籽油;紫苏籽油;pequi油;李子核油;藜麦油;盏金花油;米糠油;大米油;大麦油;大麦种子油;茶油;茶树油;蓟油;麻风树油;软木油;苹果籽油;巴拉诺斯油;bladderpod油;鸦胆子油;牛蒡油;桐树油;胡萝卜籽油;大风子树油;海甘蓝油;蓖距花油;荷荷巴油;芒果油;棕榈仁油;莫勒脂(mowrah butter);印度苦楝树油;橙子油;玫瑰果籽油;海鼠李油;牛油树脂(Shea Butter);雪球种子油;妥尔油;琼崖海棠油;薰草豆油;鸡肉油;鹅油(schmaltz);牛肉油;羊油;动物脂肪(animal fat);动物脂肪(tallowate);牛脂;牛肉脂;培根油;火腿油;板油;乳脂;蔗糖聚酯;硬脂酸;月桂酸;亚油酸;棕榈酸;棕榈油酸;肉豆蔻酸;鹅油(goose fat);鸭油;烧烤滴油;蛋黄酱;以及水包油或油包水乳剂。

[0338] 在一些实施方案中,组合物包含甜味化合物或甜味增强化合物以及一种或多种GRAS化合物(通常被认为是安全的)。代表性的GRAS化合物包括但不限于:阿拉伯胶(Acacia Gum)(阿拉伯胶树(Acacia Senegal(L.)Willd.));缩醛;乙醛;丙基苯乙基缩醛;对甲氧基苯乙酮;乙酸;(三-)醋精;乙偶姻;苯乙酮;乌头酸;己二酸;琼脂(石花菜属(Gelidium Spp.));苜蓿提取物(紫苜蓿(Medicago Sativa L.));藻胶(海带属(Laminaria Spp.)和其他的海草);海藻酸钠、海藻酸钙和海藻酸铵;多香果(众香树(Pimenta Officinalis Lindl.));多香果油(众香树);多香果油树脂(众香树);邻氨基苯甲酸烯丙基酯;丁酸烯丙基酯;肉桂酸烯丙基酯;环己烷乙酸烯丙基酯;环己烷丁酸烯丙基酯;环己烷己酸烯丙基酯;环己烷丙酸烯丙基酯;环己烷戊酸烯丙基酯;烯丙基二硫醚;2-乙基丁酸烯丙基酯;2-糠酸烯丙基酯;庚酸烯丙基酯;己酸烯丙基酯;烯丙基α-紫罗酮;异硫氰酸烯丙基酯;烯丙基硫醇;壬酸烯丙基酯;辛酸烯丙基酯;苯氧基乙酸烯丙基酯;苯基乙酸烯丙基酯;丙酸烯丙基

酯;山梨酸烯丙基酯;烯丙基硫醚;愒各酸烯丙基酯;10-十一碳烯酸烯丙基酯;异戊酸烯丙基酯;苦杏仁油(Ffpa)(李属(Prunus Spp.));芦荟提取物(芦荟属(Aloe Spp.));蜀葵属植物根(药蜀葵(Althea Officinalis L.));龙涎香酊;黄葵纯化物油(黄葵(Hibiscus Abelmoschus L.));黄葵籽油(黄葵);黄葵酊(黄葵);硫化铵;异戊酸铵;乙酸异戊酯;戊醇;异戊醇;苯甲酸异戊酯;丁酸戊基酯;丁酸异戊酯;α-戊基肉桂醛;α-戊基肉桂醛二甲基缩醛;肉桂酸异戊酯;α-戊基肉桂基乙酸酯;α-戊基肉桂基醇;α-戊基肉桂基甲酸酯;α-戊基肉桂基异戊酸酯;甲酸戊酯;甲酸异戊酯;4(2-呋喃)丁酸异戊酯;3(2-呋喃)丙酸异戊酯;2-糠酸戊基酯;庚酸戊基酯;己酸戊基酯;己酸异戊酯;2-戊基-5或6-酮-1,4-二氧六环;月桂酸异戊酯;壬酸异戊酯;辛酸戊基酯;辛酸异戊酯;苯基乙酸异戊酯;丙酸异戊酯;丙酮酸异戊酯;水杨酸异戊酯;异戊酸异戊酯;反-茴香脑;当归根提取物(欧白芷(Angelica Archangelica L.));当归根油(欧白芷);当归籽提取物(欧白芷);当归籽油(欧白芷);当归茎油(欧白芷);安古斯图拉树皮提取物(Galipea Offincinalis Hancock);茴芹(茴芹(Pimpinella Anisum L.));茴芹油(茴芹);八角茴香(八角(Illicium Verum Hook,F.));八角茴香油(八角(Illicium Verum Hook,F.));茴香醚;对茴香基乙酸酯;茴香醇;丁酸茴香酯;甲酸茴香酯;丙酸茴香酯;胭脂树提取物(红木(Bixa Orellana L.));胭脂树种子(红木);杏仁油(杏(Prunus Armeniaca L.));阿魏流体提取物(阿魏(Ferula Assafoetida L.));阿魏胶(阿魏);阿魏油(阿魏);抗坏血酸;花椒皮提取物(秦椒属(Xanthoxylum Spp.));香蜂草(香蜂花(Melissa Officinalis L.));香蜂草叶提取物(香蜂花);香蜂草油(香蜂花(Melissa Officinalis L.));胶枞油(香脂冷杉(Abies Balsamea(L.)Mill.));胶枞油树脂(香脂冷杉);秘鲁香脂(秘鲁香树(Myroxylon Pereirae Klotzsch));秘鲁香脂油(秘鲁香树);罗勒(罗勒(Ocimum Basilicum L.));罗勒油(罗勒);罗勒油树脂(罗勒);西印度月桂叶提取物(西印度月桂(Pimenta Acris Kostel));西印度月桂叶油(西印度月桂);西印度月桂叶油树脂(西印度月桂);甜月桂(月桂(Laurus Nobilis L.));甜月桂油(月桂);白蜂蜡(意大利蜜蜂(Apis Mellifera L.));苯甲醛;苯甲醛二甲基缩醛;苯甲醛甘油基缩醛;苯甲醛丙二醇缩醛;苯甲酸;安息香;树脂型安息香;二苯甲酮;乙酸苄酯;乙酰乙酸苄酯;苄醇;苯甲酸苄酯;苄基丁基醚;丁酸苄酯;异丁酸苄酯;肉桂酸苄酯;2,3-二甲基巴豆酸苄酯;苄基乙基醚;甲酸苄酯;3-苄基-4-庚酮;苄硫醇;苄基甲氧基乙基缩醛;苯基乙酸苄酯;丙酸苄酯;水杨酸苄酯;异戊酸苄酯;佛手柑油;甜桦木油(坚桦木(Betula Lenta L.));黑莓树皮提取物(悬钩子属(Rubus,Spp.),黑莓亚属(Eubatus));卢氏黑黄檀油;冰片;异冰片;乙酸冰片酯;乙酸异冰片酯;甲酸冰片酯;甲酸异冰片酯;丙酸异冰片酯;戊酸冰片酯;异戊酸冰片酯(内-);异戊酸异冰片酯;波罗尼花纯化物(大柱波罗尼亚(Boronia Megastigma Nees));南非香叶木叶油(布枯属(Barosma Spp.));2-丁酮;黄油酸;黄油酯;黄油蒸馏轻组分;乙酸丁酯;乙酸异丁酯;乙酰乙酸丁酯;乙酰乙酸异丁酯;丁醇;异丁醇;当归酸异丁酯;邻氨基苯甲酸丁酯;邻氨基苯甲酸异丁酯;丁基化的羟基茴香醚;丁基羟基甲苯;苯甲酸异丁酯;丁酸丁酯;丁酸异丁酯;异丁酸丁酯;异丁酸异丁酯;丁酰乳酸丁酯;α-丁基肉桂醛;肉桂酸丁酯;肉桂酸异丁酯;2-癸烯酸丁酯;丙二酸丁乙酯;甲酸丁酯;甲酸异丁酯;3-(2-呋喃)丙酸异丁酯;庚酸丁酯;庚酸异丁酯;己酸丁酯;己酸异丁酯;对羟基苯甲酸丁酯;2-丁基-5-或6-酮-1,4-二氧六环;乳酸丁酯;月桂酸丁酯;乙酰丙酸丁酯;α-异丁基苯乙基醇;苯基乙酸丁酯;苯基乙酸异丁酯;丙酸丁酯;丙酸异丁酯;水杨酸异丁酯;硬脂酸丁酯;丁基硫

醚;10-十一碳烯酸丁酯;戊酸丁酯;异戊酸丁酯;丁醛;异丁醛;丁酸;异丁酸;(三-)酪酯;咖啡因;白千层油(白千层(Melaleuca Leucadendron L.));乙酸钙;莰烯;D-樟脑;日本白樟脑油(白樟(Cinnamomum Camphora(L.)Nees Et Eberm.));卡南加油;辣椒提取物(辣椒属(Capsicum Spp.));辣椒油树脂(辣椒属);焦糖色;葛缕子(葛缕子(Carum Carvi L.));黑种籽草(黑香种草(Nigella Sativa L.));葛缕子油;羧甲基纤维素;小豆蔻(小豆蔻(Elettaria Cardamomum(L.)Maton));小豆蔻种子油(小豆蔻);洋红(胭脂虫(Coccus Cacti L.));稻子豆提取物(长角豆(Ceratonia Siliqua L.));胡萝卜油;香荆芥酚;香芹基乙基醚;香芹醇;4-香芹聪醇;香芹酮;乙酸香芹基酯;丙酸香芹基酯;β-石竹烯;药鼠李无苦味提取物(波希鼠李(Rhamnus Purshiana Dc.));卡藜树皮提取物(巴豆属(Croton Spp.));卡藜树皮油(巴豆属);肉桂(肉桂(Cinnamomum Cassia Blume));肉桂皮提取物(肉桂);肉桂皮油;桂花子(肉桂);金合欢纯化物(金合欢(Acacia Farnesiana(L.)Willd.));海狸香油;海狸香液体(蓖麻属(Castor Spp.));蓖麻油(蓖麻(Ricinus Communis L.));儿茶提取物(儿茶(Acacia Catechu Willd.));儿茶粉末(儿茶(Acacia Catechu Willd.));红椒(长辣椒(Capsicum Annuum L.Var.Longum Sendt));香柏叶油(北美香柏(Thuja Occidentalis L.));芹菜籽(旱芹(Apium Graveolens L.));芹菜籽提取物(旱芹);芹菜籽提取物固体(旱芹);芹菜籽油;英国黄春菊花油(果香菊(Anthemis Nobilis L.));匈牙利黄春菊花油(母菊(Matricaria Chamomilla L.));罗马黄春菊花提取物(果香菊);罗马黄春菊花油(果香菊);野生樱桃树皮提取物(美国樱桃(Prunus Serotina Ehrh.));樱桃月桂油(Ffpa)(桂樱(Prunus Laurocerasus L.));樱桃核提取物(李属(Prunus Spp.));山萝卜(蜡叶峨参(Anthriscus Cerefolium(L.)Hoffm.));菊苣提取物(菊苣(Cichorium Intybus L.));红金鸡纳树皮(鸡纳树(Cinchona Succirubra Pav.)或其杂交种);红金鸡纳树皮提取物(鸡纳树或其杂交种);黄金鸡纳树皮(金鸡纳树属(Cinchona Spp.));黄金鸡纳树皮提取物(金鸡纳树属);金鸡纳提取物(金鸡纳树属);肉桂醛;肉桂醛乙二醇缩醛;肉桂酸;肉桂(樟属(Cinnamomum Spp.));肉桂皮提取物(樟属);肉桂皮油;肉桂叶油;乙酸肉桂基酯;肉桂醇;丁酸肉桂基酯;异丁酸肉桂基酯;肉桂酸肉桂基酯;甲酸肉桂基酯;苯乙酸肉桂基酯;丙酸肉桂基酯;异戊酸肉桂基酯;柠檬醛;柠檬醛二乙基缩醛;柠檬醛二甲基缩醛;

[0339] 柠檬酸;香茅醛;香茅油;Dl-香茅醇;香茅氧基乙醛;乙酸香茅基酯;丁酸香茅基酯;异丁酸香茅基酯;甲酸香茅基酯;苯乙酸香茅基酯;丙酸香茅基酯;戊酸香茅基酯;柑橘皮提取物(柑橘属(Citrus Spp.));灵猫香纯化物(灵猫净油(Viverra Civetta Schreber And Viverra Zibetha Schreber));鼠尾草(香紫苏(Salvia Sclarea L.));鼠尾草油(香紫苏);丁香苞提取物(番樱桃属(Eugenia Spp.));丁香苞油(番樱桃属);丁香苞油树脂(番樱桃属);马达加斯加丁香叶油;红三叶草提取物固体(红车轴草(Trifolium Pratense L.));丁香(番樱桃属(Eugenia Spp.));丁香茎油(番樱桃属);古柯叶提取物(非古柯碱麻醉的)(玻利维亚古柯树(Erythroxylon Coca Lam.));绿法国白兰地油;白法国白兰地油;胡荽(芫荽(Coriandrum Sativum L.));胡荽油(芫荽(Coriandrum Sativum L.));玉米须(玉蜀黍(Zea Mays L.));广木香根油(木香(Saussurea Lappa Clarke));对甲酚;荜澄茄(毕澄茄(Piper Cubeba L.F.));荜澄茄油(毕澄茄(Piper Cubeba L.F.));小茴香(孜然(Cuminum Cyminum L.));枯名醛;黑小茴香(黑香种草(Nigella Sativa L.));小茴香油;库拉索桔皮(Curacao Peel)提取物(酸橙(Citrus Aurantium L.));库拉索桔皮(Curacao

Peel)油(酸橙(Citrus Aurantium L.));黑醋栗芽纯化物(黑茶藨子(RibesNigrum L.));环己烷乙酸;乙酸环己基乙酯;乙酸环己基酯;邻氨基苯甲酸环己基酯;丁酸环己基酯;肉桂酸环己基酯;甲酸环己基酯;丙酸环己基酯;异戊酸环己基酯;对伞花烃;蒲公英流体提取物(蒲公英属(Taraxacum Spp.));蒲公英根提取物固体(蒲公英属(Taraxacum Spp.));印蒿油(印蒿(Artemisia Pallens Wall.));γ-癸内酯;δ-癸内酯;癸醛;癸醛二甲基缩醛;癸酸;1-癸醇;2-癸烯醛;乙酸癸基酯;丁酸癸基酯;丙酸癸基酯;二乙酰基二苄醚;4,4-二丁基-γ-丁内酯;癸二酸二丁基酯;苹果酸二乙基酯;丙二酸二乙基酯;癸二酸二乙基酯;琥珀酸二乙基酯;酒石酸二乙基酯;二氢香芹醇(未指定的异构体);乙酸二氢香芹基酯;二氢香豆素;莳萝(莳萝(Anethum Graveolens L.));莳萝油(莳萝);印度莳萝种子(莳萝属(Anethum Spp.));间二甲氧基苯;对二甲氧基苯;2,4-二甲基苯乙酮;α,α-二甲基苄基异丁酸酯;2,6-二甲基-5-庚烯醛;2,6-二甲基辛醛;3,7-二甲基-1-辛醇;α,α-二甲基苯乙基乙酸酯;α,α-二甲基苯乙醇;α,α-二甲基苯乙基丁酸酯;α,α-二甲基苯乙基甲酸酯;琥珀酸二甲基酯;1,3-二苯基-2-丙酮;磷酸氢二钠;克里特白藓(白藓状牛至(Origanum Dictamnus L.));γ-十二内酯;δ-十二内酯;2-十二烯醛;匍匐冰草提取物(匍匐冰草(Agropyron Repens(L.)Beauv.));血竭提取物(黄藤属(Daemonorops Spp.)或其他植物来源);掌状红皮藻(掌状红皮藻(Rhodymenia Palmata(L.)Grev.));接骨木花(美洲接骨木(Sambucus Canadensis L.)或西洋接骨木(Sambucus Nigra L.));榄香脂胶(橄榄属(Canarium Spp.));榄香脂油(橄榄属);加拿大蓬油(小蓬草(Erigeron Candensis L.));异抗坏血酸(Erythrobic Acid);草蒿脑;龙蒿油(Estragon Oil)(龙蒿(Artemisia Dracunculus L.));对乙氧基苯甲醛;乙酸乙酯;乙酰乙酸乙酯;2-乙酰基-3-苯基丙酸乙酯;乌头酸乙酯(混合酯);丙烯酸乙酯;乙醇;对茴香酸乙酯;邻氨基苯甲酸乙酯;苯甲酸乙酯;苯甲酰基乙酸乙酯;α-乙基苄基丁酸酯;2-乙基丁基乙酸酯;2-乙基丁醛;丁酸乙酯;异丁酸乙酯;2-乙基丁酸;肉桂酸乙酯;环己烷丙酸乙酯;癸酸乙酯;甲酸乙酯;3(2-呋喃基)丙酸乙酯;4-乙基愈创木酚;庚酸乙酯;2-乙基-2-庚烯醛;己酸乙酯;乳酸乙酯;月桂酸乙酯;乙酰丙酸乙酯;2-甲基丁酸乙酯;乙基甲基苯基缩水甘油酸酯;肉豆蔻酸乙酯;亚硝酸乙酯;壬酸乙酯;2-壬炔酸乙酯;辛酸乙酯;油酸乙酯;棕榈酸乙酯;苯基乙酸乙酯;4-苯基丁酸乙酯;3-苯基缩水甘油酸乙酯;3-苯基丙酸乙酯;丙酸乙酯;丙酮酸乙酯;水杨酸乙酯;山梨酸乙酯;惕各酸乙酯;10-十一碳烯酸乙酯;戊酸乙酯;异戊酸乙酯;乙基香草醛;桉油精;桉树油(蓝桉(Eucalyptus Globulus Labille));丁子香酚;异丁子香酚;乙酸丁子香基酯;乙酸异丁子香基酯;苯甲酸丁子香基酯;异丁子香基乙基醚;甲酸丁子香基酯;甲酸异丁子香基酯;丁子香基甲基醚;异丁子香基甲基醚;苯基乙酸异丁子香基酯;金合欢醇;D-葑酮;葑醇;普通茴香(茴香(Foeniculum Vulgare Mill.));甜茴香(球茎茴香(Foeniculum Vulgare Mill.Var Dulce(D.C.));甜茴香油(球茎茴香(Foeniculum Vulgare Mill.Var.Dulce Dc.));葫芦巴[L2](胡芦巴(Trigonella Foenum-Graecum L.));胡芦巴提取物(胡芦巴);胡芦巴油树脂(胡芦巴);甲酸;富马酸;糠醛;乙酸糠基酯;糠醇;2-亚糠基丁醛;糠基硫醇;3-(2-呋喃基)丙烯醛;4-(2-呋喃基)-3-丁烯-2-酮;(2-呋喃基)-2-丙酮;精制杂醇油;高良姜根(山姜属(Alpinia Spp.)),高良姜根提取物(山姜属);高良姜根油(山姜属);白松香油(阿魏属(Ferula Spp.));白松香树脂(阿魏属);大蒜油(蒜(Allium Sativum L.));鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.));鹰爪豆提取物(鹰爪豆);龙胆根提取物(黄龙胆

(Gentiana Lutea L.))；香叶醇；榄香脂胶(橄榄属(Canarium Spp.))；榄香脂油(橄榄属)；加拿大蓬油(小蓬草(Erigeron Candensis L.))；异抗坏血酸(Erythrobic Acid)；草蒿脑；龙蒿油(Estragon Oil)(龙蒿(Artemisia Dracunculus L.))；对乙氧基苯甲醛；乙酸乙酯；乙酰乙酸乙酯；2-乙酰基-3-苯基丙酸乙酯；乌头酸乙酯(混合酯)；丙烯酸乙酯；乙醇；对茴香酸乙酯；邻氨基苯甲酸乙酯；苯甲酸乙酯；苯甲酰基乙酸乙酯；α-乙基苄基丁酸酯；2-乙基丁基乙酸酯；2-乙基丁醛；丁酸乙酯；异丁酸乙酯；2-乙基丁酸；肉桂酸乙酯；环己烷丙酸乙酯；癸酸乙酯；甲酸乙酯；3(2-呋喃基)丙酸乙酯；4-乙基愈创木酚；庚酸乙酯；2-乙基-2-庚烯醛；己酸乙酯；乳酸乙酯；月桂酸乙酯；乙酰丙酸乙酯；2-甲基丁酸乙酯；乙基甲基苯基缩水甘油酸酯；肉豆蔻酸乙酯；亚硝酸乙酯；壬酸乙酯；2-壬炔酸乙酯；辛酸乙酯；油酸乙酯；棕榈酸乙酯；苯基乙酸乙酯；4-苯基丁酸乙酯；3-苯基缩水甘油酸乙酯；3-苯基丙酸乙酯；丙酸乙酯；丙酮酸乙酯；水杨酸乙酯；山梨酸乙酯；愒各酸乙酯；10-十一碳烯酸乙酯；戊酸乙酯；异戊酸乙酯；乙基香草醛；桉油精；桉树油(蓝桉(Eucalyptus Globulus Labille))；丁子香酚；异丁子香酚；乙酸丁子香基酯；乙酸异丁子香基酯；苯甲酸丁子香基酯；异丁子香基乙基醚；甲酸丁子香基酯；甲酸异丁子香基酯；丁子香基甲基醚；异丁子香基甲基醚；苯基乙酸异丁子香基酯；金合欢醇；D-葑酮；葑醇；普通茴香(茴香(Foeniculum Vulgare Mill.))；甜茴香(球茎茴香(Foeniculum Vulgare Mill.Var Dulce(D.C.))；甜茴香油(球茎茴香)；胡芦巴(胡芦巴(Trigonella Foenum-Graecum L.))；胡芦巴提取物(胡芦巴)；胡芦巴油树脂(胡芦巴)；甲酸；富马酸；糠醛；乙酸糠基酯；糠醇；2-亚糠基丁醛；糠基硫醇；3-(2-呋喃基)丙烯醛；4-(2-呋喃基)-3-丁烯-2-酮；(2-呋喃基)-2-丙酮；精制杂醇油；高良姜根(山姜属(Alpinia Spp.))；高良姜根提取物(山姜属)；高良姜根油(山姜属)；白松香油(阿魏属(Ferula Spp.))；白松香树脂(阿魏属)；大蒜油(蒜(Allium Sativum L.))；鹰爪豆纯化物(鹰爪豆(Spartium Junceum L.))；鹰爪豆提取物(鹰爪豆)；龙胆根提取物(黄龙胆(Gentiana Lutea L.))；香叶醇；岩蔷薇纯化物(岩蔷薇属(Cistus Spp.))；岩蔷薇油(岩蔷薇属)；岩蔷薇油树脂(岩蔷薇属)；乳酸；月桂浆果(月桂(Laurus Nobilis L.))；月桂叶提取物(月桂)；月桂酸；月桂醛；乙酸月桂基酯；月桂醇；醒目熏衣草油(醒目熏衣草(Lavandula Hybrida))；熏衣草(熏衣草(Lavandula Officinalis Chaix))；熏衣草纯化物(熏衣草)；熏衣草凝结物(熏衣草)；熏衣草油(熏衣草)；柠檬提取物(柠檬(Citrus Limon(L.)Burm.F.))；柠檬草油；柠檬油；无萜柠檬油(柠檬)；乙酰丙酸；甘草提取物(甘草属(Glycyrrhiza Spp.))；甘草提取物粉末(洋甘草(Glycyrrhiza Glabra L.))；甘草根(洋甘草)；酸橙油；无萜酸橙油(来檬(Citrus Aurantifolia(Christman)Swingle))；D-柠檬烯；沉香木油(墨西哥沉香木(Bursera Delpechiana Poiss.)和其他的裂榄属(Bursera Spp.))；沉香醇；乙酸沉香基酯；邻氨基苯甲酸沉香基酯；苯甲酸沉香基酯；丁酸沉香基酯；异丁酸沉香基酯；肉桂酸沉香基酯；甲酸沉香基酯；己酸沉香基酯；辛酸沉香基酯；丙酸沉香基酯；异戊酸沉香基酯；椴树花(Tilia Glabra Vent.)；槐胶(长角豆(Ceratonia Siliqua L.))；独活草(欧当归(Levisticum Officinale Koch))；独活草提取物(欧当归)；独活草油(欧当归)；肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.))；肉豆蔻油(肉豆蔻)；肉豆蔻油树脂(肉豆蔻)；L-苹果酸；麦芽酚；压榨的柑橘油；盆栽金盏菊(金盏花(Calendula Officinalis L.))；墨角兰油树脂(马郁兰(Majorana Hortensis Moench-Origanum Majorana L.))；盆栽墨角兰(牛至(Origanum Vulgare L.))；墨角兰种子(马郁兰

(Majorana Hortensis Moench-Origanum Majorana L.))；甜墨角兰(马郁兰)；甜墨角兰油(马郁兰(Origanum Majorana))；对薄荷-1,8-二烯-7-醇；外消旋薄荷醇；(+)-新异薄荷醇；薄荷酮；乙酸薄荷基酯(未指定的异构体)；异戊酸薄荷基酯；对甲氧基苯甲醛；2-甲氧基-4-甲基苯酚；4-(对甲氧基苯基)-2-丁酮；1-(对甲氧基苯基)-1-戊烯-3-酮；1-(对甲氧基苯基)-2-丙酮；2-甲氧基-4-乙烯基苯酚；乙酸甲酯；4'-甲基苯乙酮；2-甲基烯丙基丁酸酯；茴香酸甲酯；邻甲基茴香醚；对甲基茴香醚；邻氨基苯甲酸甲酯；苯甲酸甲酯；α-甲基苄基乙酸酯；α-甲基苄醇；α-甲基苄基丁酸酯；α-甲基苄基异丁酸酯；α-甲基苄基甲酸酯；α-甲基苄基丙酸酯；对叔丁基苯基乙酸甲酯；2-甲基丁醛；3-甲基丁醛；丁酸甲酯；异丁酸甲酯；2-甲基丁酸；甲基纤维素；α-甲基肉桂醛；肉桂酸甲酯；6-甲基香豆素；甲基环戊烯醇酮；4-(3,4-亚甲基二氧基苯基)-2-丁酮；5-甲基糠醛；2-糠酸甲酯；2-甲基-3(2-呋喃基)丙烯醛；庚酸甲酯；2-甲基庚酸；6-甲基-5-庚烯-2-酮；己酸甲酯；2-己烯酸甲酯；对羟基苯甲酸甲酯；甲基-α-紫罗酮；甲基-β-紫罗酮；甲基-δ-紫罗酮；α-异-甲基紫罗酮；月桂酸甲酯；甲硫醇；邻甲氧基苯甲酸甲酯；N-甲基邻氨基苯甲酸甲酯；2-甲基丁酸甲酯；3-甲基硫代丙酸甲酯；4-甲基戊酸甲酯；肉豆蔻酸甲酯；甲基β-萘基酮；壬酸甲酯；2-壬烯酸甲酯；2-壬炔酸甲酯；2-甲基辛醛；辛酸甲酯；2-辛炔酸甲酯；4-甲基-2,3-戊二酮；4-甲基-2-戊酮；β-甲基苯乙基醇；苯基乙酸甲酯；3-甲基-4-苯基-3-丁烯-2-酮；2-甲基-4-苯基-2-丁基乙酸酯；2-甲基-4-苯基-2-丁基异丁酸酯；2-甲基-4-苯基丁醛；3-甲基-2-苯基丁醛；4-苯基丁酸甲酯；4-甲基-1-苯基-2-戊酮；3-苯基丙酸甲酯；丙酸甲酯；2-甲基-3-(对异丙基苯基)丙醛；6-甲基喹啉；水杨酸甲酯；甲基硫醚；3-(甲基硫代)丙醛；2-甲基-3-甲苯基丙醛；2-甲基十一醛；9-十一碳烯酸甲酯；2-十一碳炔[L4]酸甲酯；戊酸甲酯；异戊酸甲酯；2-甲基戊酸；含羞草纯化物(银荆树(Acacia Decurrens Willd.Var.Dealbata))；谷氨酸单钠；山枫提取物固体(穗花槭(Acer Spicatum Lam.))；藏麝香(原麝(Moschus Moschiferus L.))；棕芥(芸薹属(Brassica Spp.))；黄芥(芸薹属)；月桂烯；肉豆蔻醛；肉豆蔻酸；没药胶(没药属(Commiphora Spp.))；没药油(没药属)；β-萘基邻氨基苯甲酸酯；β-萘基乙基醚；柚皮苷提取物(葡萄柚(Citrus Paradisi Macf.))；橙花醇；橙花油(酸橙(Citrus Aurantium L.))；橙花叔醇(未指定的异构体)；乙酸橙花基酯；丁酸橙花基酯；异丁酸橙花基酯；甲酸橙花基酯；丙酸橙花基酯；异戊酸橙花基酯；一氧化二氮；2,6-壬二烯-1-醇；γ-壬内酯；壬醛；1,3-壬二醇乙酸酯(混合酯)；壬酸；2-壬酮；壬酰基4-羟基-3-甲氧基苄基酰胺；乙酸壬酯；壬醇；辛酸壬酯；异戊酸壬酯；肉豆蔻(肉豆蔻(Myristica Fragrans Houtt.))；肉豆蔻油；橡木片提取物(白栎(Quercus Alba L.))；橡苔纯化物(扁枝衣属(Evernia Spp.))；γ-辛内酯；辛醛；辛醛二甲基缩醛；辛酸；1-辛醇；2-辛醇；2-辛酮；3-辛酮；3-(羟甲基)-2-庚酮；1-辛烯-3-醇；乙酸辛酯；丁酸辛酯；异丁酸辛酯；甲酸辛酯；庚酸辛酯；辛酸辛酯；苯基乙酸辛酯；丙酸辛酯；异戊酸辛酯；油酸；乳香油(乳香属(Boswellia Spp.))；洋葱油(洋葱(Allium Cepa L.))；橙子化纯化物；橙子花(酸橙)；橙子叶纯化物(酸橙)；蒸馏橙子油(甜橙(Citrus Sinensis(L.)Osbeck))；无萜橙子油(甜橙)；苦橙皮油(酸橙)；甜橙皮提取物(甜橙)；甜橙皮油(甜橙)；无萜甜橙皮油(甜橙)；牛至(过江藤属(Lippia Spp.))；牛至油(提取物)(头状百里香(Thymus Capitatus L.Hoffmanns&Link))；鸢尾草凝结物液体油(香根鸢尾(Iris Florentina L.))；鸢尾草根提取物(香根鸢尾(Iris Florentina L.))；玫瑰草油(玫瑰草(Cymbopogon Martini(Roxb.)Stapf))；棕榈酸；红辣椒(辣椒(Capsicum Annuum L.))；红

辣椒油树脂(辣椒);荷兰芹(欧芹(Petroselinum Crispum(Miller)Nyman-P.Sativum Hoffm.));荷兰芹油;荷兰芹油树脂(欧芹属(Petroselinum Spp.));广藿香油;薄荷油(唇萼薄荷(Mentha Pulegium L.));ω-十五内酯;2,3-戊二酮;2-戊酮;4-戊烯酸;黑胡椒(胡椒(Piper Nigrum L.));黑胡椒油(胡椒);黑胡椒油树脂(胡椒);胡椒薄荷叶(辣薄荷(Mentha Piperita L.));胡椒薄荷油;红辣椒(辣椒);白胡椒(胡椒(Piper Nigrum L.));白胡椒油(胡椒);白胡椒油树脂(胡椒);橙叶;柠檬油(柠檬(Citrus Limon L.Burm.F));橘油(Petitgrain Mandarin Oil)(柑橘(Citrus Reticulata Blanco Var.Mandarin));巴拉圭橘油(Petitgrain Paraguay Oil);α-水芹烯;乙酸苯乙基酯;苯乙醇;邻氨基苯甲酸苯乙基酯;苯甲酸苯乙基酯;丁酸苯乙基酯;异丁酸苯乙基酯;肉桂酸苯乙基酯;甲酸苯乙基酯;2-糠酸苯乙基酯;苯基乙酸苯乙基酯;丙酸苯乙基酯;水杨酸苯乙基酯;千里酸苯乙基酯;惕各酸苯乙基酯;异戊酸苯乙基酯;苯氧基乙酸;2-苯氧基乙基异丁酸酯;苯乙醛;苯乙醛2,3-丁二醇缩醛;苯乙醛二甲基缩醛;苯乙醛甘油基缩醛;苯乙酸;4-苯基-2-丁醇;4-苯基-3-丁烯-2-醇;4-苯基-3-丁烯-2-酮;4-苯基-2-丁基乙酸酯;1-苯基-3-甲基-3-戊醇;1-苯基-1-丙醇;3-苯基-1-丙醇;2-苯基丙醛;3-苯基丙醛;2-苯基丙醛二甲基缩醛;3-苯基丙酸;3-苯丙基乙酸酯;2-苯丙基丁酸酯;2-苯丙基异丁酸酯;3-苯丙基异丁酸酯;3-苯丙基肉桂酸酯;3-苯丙基甲酸酯;3-苯丙基己酸酯;3-苯丙基丙酸酯;2-(3-苯丙基)四氢呋喃;3-苯丙基异戊酸酯;磷酸;众香子叶油;α-蒎烯;β-蒎烯;矮松针油(欧洲山松(Pinus Mugo Turra Var.Pumilio(Haenke)Zenari));松针油(冷杉属(Abies Spp.));欧洲赤松油(欧洲赤松(Pinus Sylvestris L.));松焦油(长叶松(Pinus Palustris Mill.)和其他的松属(Pinus Spp.));哌啶;胡椒碱;D-胡椒酮;胡椒醛;乙酸胡椒基酯;异丁酸胡椒基酯;梅笠草叶提取物(伞形梅笠草(Chimaphila Umbellata Nutt.));聚山梨醇酯20;聚山梨醇酯60;聚山梨醇酯80;石榴皮提取物(石榴(Punica Granatum L.));罂粟籽(罂粟(Papaver Somniferum L.));乙酸钾;山梨酸钾;丙烯基乙基愈创木酚;丙醛;丙酸;乙酸丙酯;乙酸异丙酯;对异丙基苯乙酮;丙醇;异丙醇;对丙基茴香醚;苯甲酸丙酯;苯甲酸异丙酯;对异丙基苄醇;丁酸丙酯;丁酸异丙酯;异丁酸丙酯;异丁酸异丙酯;肉桂酸丙酯;肉桂酸异丙酯;丙二醇;丙二醇海藻酸酯;丙二醇硬脂酸酯;甲酸丙酯;甲酸异丙酯;2-呋喃丙烯酸丙酯;2-糠酸丙酯;没食子酸丙酯;庚酸丙酯;己酸丙酯;己酸异丙酯;对羟基苯甲酸丙酯;3-亚丙基苯酞;α-丙基苯乙醇;对异丙基苯乙醛;苯基乙酸丙酯;苯基乙酸异丙酯;3-(对异丙基苯基)丙醛;丙酸丙酯;丙酸异丙酯;异戊酸丙酯;异戊酸异丙酯;异胡薄荷醇;胡薄荷酮;异胡薄荷酮;乙酸异胡薄荷酯;吡啶;木蜡酸;木蜡酸提取物;丙酮醛;丙酮酸;苦木提取物(牙买加苦木(Picrasma Excelsa(Sw.)Planch).-苏林南苦木(Quassia Amara L.));白坚木皮提取物;皂树(皂树(Quillaja Saponaria Molina));榅桲籽提取物(榅桲属(Cydonia Spp.));重硫酸奎宁;盐酸奎宁;硫酸奎宁;异喹啉;娜檀根提取物(刺球果属(Krameria Spp.));玫瑰醇;乙酸玫瑰基酯;丁酸玫瑰基酯;异丁酸玫瑰基酯;甲酸玫瑰基酯;苯基乙酸玫瑰基酯;丙酸玫瑰基酯;异戊酸玫瑰基酯;玫瑰纯化物(蔷薇属(Rosa Spp.));玫瑰油(突厥蔷薇(Rosa Damascena Mill.));玫瑰果提取物(蔷薇属(Rosa Spp.));迷迭香(迷迭香(Rosemarinus Officinalis L.));迷迭香油(迷迭香);浓玫瑰水(百叶蔷薇(Rosa Centifolia L.));芸香(芸香(Ruta Graveolens L.));芸香油(芸香(Ruta Graveolens L.));朗姆醚;糖精,钠盐;藏红花(番红花(Crocus Sativus L.));藏红花提取物(番红花);鼠尾草(药用鼠尾草(Salvia

Officinalis L.))；鼠尾草油(药用鼠尾草)；鼠尾草油树脂(药用鼠尾草)；西班牙鼠尾草油(薰衣草叶鼠尾草(Salvia Lavandulaefolia Vahl.))；水杨醛；黄檀油(檀香(Santalum Album L.))；檀香醇(α和β)；乙酸檀香基酯；苯基乙酸檀香基酯；菝葜提取物(菝葜属(Smilax Spp.))；黄樟树皮提取物(不含黄樟素)(北美檫树(Sassafras Albidum(Nutt.)Nees))；黄樟叶(不含黄樟素)(北美檫树)；夏香薄荷(夏香薄荷(Satureja Hortensis L.))；夏香薄荷油(夏香薄荷)；夏香薄荷油树脂(夏香薄荷)；冬香薄荷(冬香薄荷(Satureja Montana L.))；冬香薄荷油(冬香薄荷)；冬香薄荷油树脂(冬香薄荷)；柔毛肖乳香油(柔毛肖乳香(Schinus Molle L.))；粪臭素；黑刺李浆果(黑刺李(Prunus Spinosa L.))；黑刺李浆果提取物(黑刺李)；黑刺李浆果提取物固体(黑刺李)；加拿大蛇根草油(加拿大细辛(Asarum Canadense L.))；乙酸钠；苯甲酸钠；柠檬酸钠；六偏磷酸钠；失水山梨糖醇单硬脂酸酯；D-山梨糖醇；绿薄荷(留兰香(Mentha Spicata L.))；绿薄荷提取物(留兰香(Mentha Spicata L.))；绿薄荷油(留兰香)；穗花熏衣草油(熏衣草属(Lavandula Spp.))；云杉油(铁杉属(Tsuga Spp.)和云杉属(Picea Spp.))；硬脂酸；苏合香(枫香属(Liquidambar Spp.))；苏合香提取物(枫香属)；蔗糖八乙酸酯；二氧化硫；万寿菊油(万寿菊(Tagetes Erecta L.；T.Patula L.；或T.Glandulifera Schrank))；橘子油(柑橘(Citrus Reticulata Blanco))；鞣酸(栎属[L5](Quercus Spp.))；龙嵩(龙蒿(Artemisia Dracunculus L.))；酒石酸(D-,L-,Dl-,内消旋-)；α-松油醇；异松油烯；乙酸松油基酯(异构体混合物)；β-松油基邻氨基苯甲酸酯；丁酸松油基酯；异丁酸松油基酯；肉桂酸松油基酯；甲酸松油基酯；丙酸松油基酯；异戊酸松油基酯；乙酸四氢糠基酯；四氢糠醇；丁酸四氢糠基酯；丙酸四氢糠基酯；3,4,5,6-四氢假紫罗酮；四氢沉香醇；四甲基乙基环己烯酮(异构体的混合物)；2-噻吩基硫醇；百里香(百里香(Thymus Vulgaris L.))；百里香油(百里香)；白百里香油(百里香)；百里香酚；甲苯甲醛甘油基缩醛(混合的邻-、间-、对-)；甲苯甲醛(混合的邻、间、对)；妥卢香脂提取物(南美槐属(Myroxylon Spp.))；妥卢香脂胶(南美槐属)；对甲苯基乙醛；邻甲苯基乙酸酯；对甲苯基乙酸酯；4-(对甲苯基)-2-丁酮；对甲苯基异丁酸酯；对甲苯基月桂酸酯；对甲苯基苯基乙酸酯；对甲苯基苯基乙酸酯；2-(对甲苯基)丙醛；黄芪胶(黄耆属(Astragalus Spp.))；乙酰柠檬酸三丁酯；磷酸三钙；2-十三碳烯醛；柠檬酸三乙酯；晚香玉油(晚香玉(Polianthes Tuberosa L.))；姜黄(姜黄(Curcuma Longa L.))；姜黄提取物(姜黄)；姜黄油树脂(姜黄)；松节油胶(松属(Pinus Spp.))；蒸馏的松节油蒸气[L6](松属(Pinus Spp.))；2,3-十一碳二酮；γ-十一内酯；十一醛；2-十一烷酮；9-十一碳烯醛；10-十一碳烯醛；10-十一碳烯-1-基乙酸酯；十一烷醇；戊醛；缬草根提取物(缬草(Valeriana Officinalis L.))；缬草根油(缬草)；缬草酸；异戊酸；γ-戊内酯；香草(香荚兰属(Vanilla Spp.))；香草提取物(香荚兰属)；香草油树脂(香荚兰属)；香草醛；香草醛乙酸酯；藜芦醛；紫罗兰叶纯化物(香堇菜(Viola Odorata L.))；胡桃壳提取物(胡桃属(Juglans Spp.))；冬青提取物(平铺白珠树(Gaultheria Procumbens L.))；冬青油(平铺白珠树)；苦艾(中亚苦蒿(Artemisia Absinthium L.))；苦艾提取物(中亚苦蒿)；苦艾油(中亚苦蒿)；蓍草草药(蓍(Achillea Millefolium L.))；巴拉圭茶流体提取物(北美圣草(Eriodictyon Californicum(Hook And Am)Torr))；依兰树油(依兰(Cananga Odorata Hook.F.And Thomas))；短叶丝兰(小叶丝兰(Yucca Brevifolia Engelm.))；莫哈弗丝兰提取物(丝兰属(Yucca Spp.))；莪术(莪术(Curcuma Zedoaria(Berg.)Rosc.))；莪术皮提取

物(莪术(Curcuma Zedoaria(Berg.)Rosc.));姜酮;乙醛丁基苯乙基缩醛;乙酰基吡嗪;烯丙基甲基二硫醚;2-苯并呋喃甲醛;联苯;丁胺;仲丁基乙基醚;2-异丁基-3-甲氧基吡嗪;2-异丁基-3-甲基吡嗪;2-异丁基噻唑;2-反,4-反-癸二烯醛;2,3-二乙基吡嗪;2,6-二甲氧基苯酚;3,4-二甲氧基-1-乙烯基苯;对-α-二甲基苄醇;2,6-二甲基-4-庚醇;2,6-二甲基-10-亚甲基-2,6,11-十二碳三烯醛;3,7-二甲基-6-辛烯酸;2,4-二甲基-2-戊烯酸;对,α-二甲基苯乙烯;2,4-二甲基-5-乙烯基噻唑;2,2'-(二硫代二亚甲基)-二呋喃;1-乙基-2-乙酰基吡咯;反-2,顺-4-癸二烯酸乙酯;2-乙基-3,(5或6)-二甲基吡嗪;3-乙基-2,6-二甲基吡嗪;2-乙基-1-己醇;3-乙基-2-羟基-2-环戊烯-1-酮;5-乙基-3-羟基-4-甲基-2(5h)-呋喃酮;2-乙基-5-甲基吡嗪;2-乙基-3-甲基吡嗪;对乙基苯酚;(对甲苯氧基)乙酸乙酯;2-呋喃甲硫醇甲酸酯;糠基甲基醚;糠基甲基硫醚;糠基异丙基硫醚;硫代乙酸糠基酯;2-呋喃基甲基酮;(2e,4e)-庚二烯醛;反-2-庚烯醛;诺卡酮;δ-己内酯;3,4-己二酮;反-2-己烯酸;3-己烯酸;顺-3-己烯-1-基乙酸酯;异丁酸己酯;1-羟基-2-丁酮;4-羟基-2,5-二甲基-3(2h)-呋喃酮;γ-紫罗酮;对薄荷烷-2-酮;对薄荷-8-硫醇-3-酮;对薄荷-1-烯-9-醛;对薄荷-1-烯-3-醇;2-巯基丙酸;邻甲氧基肉桂醛;对甲氧基-α-甲基肉桂醛;2,5或6-甲氧基-3-甲基吡嗪(异构体的混合物);1-甲基-2-乙酰基吡咯;甲基化二氧化硅;4-甲基联苯;3-甲基巴豆酸;2-甲基-3-呋喃硫醇;2-甲基-3-,5或6-(糠基硫代)吡嗪(异构体的混合物);5-甲基-2,3-己二酮;2-甲基己酸;2-甲基-5-甲氧基噻唑;1-甲基萘;2-甲基-2-戊烯醛;2-甲基-2-戊烯酸;3-甲基-2-(2-戊烯基)-2-环戊烯-1-酮;α-甲基苯乙基丁酸酯;甲基苯乙基醚;5-甲基-2-苯基-2-己烯醛;4-甲基-2-苯基-2-戊烯醛;甲基丙基二硫醚;甲基2-吡咯基酮;5-甲基喹喔啉;4-甲基-5-噻唑乙醇;4-甲基-5-噻唑乙醇乙酸酯;2-甲基硫代乙醛;1-(甲基硫代)-2-丁酮;(甲基硫代)甲基吡嗪(异构体的混合物);5-甲基-2-噻吩甲醛;邻-(甲基硫代)-苯酚;2-甲基-5-乙烯基吡嗪(Re-Gras);2,4-壬二烯醛;2-壬烯醛;δ-辛内酯;2-辛烯醛;石蜡;2,4-戊二烯醛;2-戊烯醛;异戊胺;苯乙胺;己酸苯乙基酯;辛酸苯乙基酯;苯酚;2-苯基-2-丁烯醛;二硫化苯;1-苯基-1,2-丙二酮;丙烯基丙基二硫醚;丙基二硫醚;愒各酸异丙酯;吡嗪乙硫醇;吡嗪基甲基硫醚;2-吡啶甲硫醇;4,5,6,7-四氢-3,6-二甲基苯并呋喃;四氢-4-甲基-2-(2-甲基丙烯-1-基)吡喃;2,3,5,6-四甲基吡嗪;2,2'-(硫代二亚甲基)-二呋喃;4-侧柏醇;邻甲苯硫醇;三甲胺;对-α,α-三甲基苄醇;1-(2,6,6-三甲基-1-环己烯-1-基)-2-丁烯-1-酮;2,3,5-三甲基吡嗪;十一烷酸;2-十一烷醇;10-十一碳烯酸;2,6-二甲苯酚;2-乙酰基-3-乙基吡嗪;2-乙酰基吡啶;β-丙氨酸;烯丙基甲基三硫醚;阿拉伯半乳聚糖;L-阿拉伯糖;苯并噻唑;双(2-甲基-3-呋喃基)二硫醚;双(2-甲基-3-呋喃基)四硫醚;2-仲丁基环己酮;环戊硫醇;L-半胱氨酸;4-癸烯醛;二烯丙基三硫醚;4,5-二氢-3(2h)噻吩酮;2,4-二甲基-5-乙酰基噻唑;3,4-二甲基-1,2-环戊二酮;3,5-二甲基-1,2-环戊二酮;螺(2,4-二硫杂-1-甲基-8-氧杂二环(3.3.0)辛烷-3,3'-(1'-氧杂-2'-甲基)-环戊烷);2,3-二甲基吡嗪;2,5-二甲基吡嗪;2,6-二甲基吡嗪;4,5-二甲基噻唑;二甲基三硫醚;二丙基三硫醚;琥珀酸二钠;2,4-二氧代己酸乙酯;2-巯基丙酸乙酯;2-乙基(或甲基)-(3,5和6)-甲氧基吡嗪;2-乙基吡嗪;硫代乙酸乙酯;3-甲基丁酸糠基酯;N-糠基吡咯;L-谷氨酸;三丙酸甘油酯;甘氨酸;2-庚醇;4-庚烯醛;3-己酮;4-羟基丁酸内酯;3-(羟甲基)-2-辛酮;4-羟基-3-戊烯酸内酯;5-羟基十一烷酸内酯;D,L-异亮氨酸;异丙烯基吡嗪;L-亮氨酸;3-巯基-2-丁酮;2-巯基甲基吡嗪;3-巯基-2-戊酮;D,L-蛋氨酸;甲氧基吡嗪;2-甲基-1-丁烷硫醇;3-甲基-2-

丁烷硫醇;1-甲基-2,3-环己二酮;5h-5-甲基-6,7-二氢环戊(B)吡嗪;3-(5-甲基-2-呋喃基)-丁醛;甲基丙基三硫醚;2-甲基吡嗪;硫代丁酸甲酯;2-硫代糠酸甲酯;3-甲基硫代丙基异硫氰酸酯;4-甲基-5-乙烯基噻唑;2-萘硫醇;2-壬醇;2-戊醇;2-戊基呋喃;3-苯基-4-戊烯醛;L-脯氨酸;肉桂酸四氢糠基酯;5,6,7,8-四氢喹喔啉;硫胺盐酸盐;2-噻吩基二硫醚;3,5,5-三甲基-1-己醇;2,4,5-三甲基噻唑;丙酮;2-乙酰基-3,5(和6)-二甲基吡嗪;2-乙酰基噻唑;硫代丙酸烯丙基酯;反-2-甲基-2-丁烯酸苄酯;没药烯;丁-3-酮-2-基丁酸酯;3-亚丁基苯酞;3-N-丁基苯酞;二(丁-3-酮-1-基)硫醚;2,3-二乙基-5-甲基吡嗪;二糠基醚;5,7-二氢-2-甲基噻吩并(3,4-D)嘧啶;3,7-二甲基辛-2,6-二烯基2-乙基丁酸酯;2-乙氧基噻唑;2-乙基-3-苯基丙酸乙酯;3-己烯酸乙酯;3-甲基硫代丙酸乙酯;顺-4-辛烯酸乙酯;2-乙基苯硫酚;丙酸糠基酯;硫代丙酸糠基酯;庚酸;4-庚烯醛二乙基缩醛;3-庚基二氢-5-甲基-2(3h)-呋喃酮;3-己醇;4-己烯-3-酮;顺-3-己烯基甲酸酯;N-己基2-丁烯酸酯;6-羟基-3,7-二甲基辛酸内酯;羟基壬酸;δ-内酯;2-酮-4-丁烷硫醇;2-甲氧基-3(5和6)-异丙基吡嗪;2-甲基丁基2-甲基丁酸酯;3-甲基-2-环己烯-1-酮;3,7-二甲基-6-辛烯酸甲酯;甲基糠基二硫醚;6-甲基-3,5-庚二烯-2-酮;3-己烯酸甲酯;5-甲基-5-己烯-2-酮;2-甲基-5-(甲基硫代)呋喃;顺-4-辛烯酸甲酯;4-甲基-3-戊烯-2-酮;2-甲基丙基3-甲基丁酸酯;2-(2-甲基丙基)吡啶;3-(2-甲基丙基)吡啶;2-(1-甲基丙基)噻唑;2-甲基四氢呋喃-3-酮;3-(甲基硫代)丁醛;4-(甲基硫代)-2-丁酮;4-(甲基硫代)-4-甲基-2-戊酮;壬-2-反-6-顺-二烯醛;2,6-壬二烯醛二乙基缩醛;反-2-壬烯-1-醇;9,12-十八碳二烯酸(48%)和9,12,15-十八碳三烯酸(52%);3-氧代丁醛二甲基缩醛;1-戊烯-3-酮;2-戊基吡啶;苯乙醛二异丁基缩醛;硫代乙酸丙酯;吡咯;对甲苯基3-甲基丁酸酯;2-十三烷酮;2,6,6-三甲基环己-1,3-二烯基甲醛;1,3,3-三甲基-2-降冰片烷基乙酸酯;3-乙酰基-2,5-二甲基呋喃;2-丁基-2-丁烯醛;N-丁基2-甲基丁酸酯;3-乙基吡啶;2-甲酰基-6,6-二甲基二环(3.1.1)庚-2-烯;α-糠基辛酸酯;α-糠基戊酸酯;三苯甲酸甘油酯;2-庚烯-4-酮;3-庚烯-2-酮;2-庚基呋喃;顺-3-己烯基丁酸酯;顺-3-己烯基己酸酯;辣椒素;2-羟甲基-6,6-二甲基二环(3.1.1)庚-2-烯基甲酸酯;2-异丙基-5-甲基-2-己烯醛;2-甲基-2-丁烯醛;二氢茉莉酮酸甲酯;5-甲基-3-己烯-2-酮;茉莉酮酸甲酯;亚油酸甲酯(48%)亚麻酸甲酯(52%)混合物;4-(甲基硫代)丁酸甲酯;2-甲基戊醛;4-(甲基硫代)丁醛;3-(甲基硫代)丙醇;3-辛烯-2-酮;3-戊烯-2-酮;戊基2-呋喃基酮;丙二醇二苯甲酸酯;1-(2,6,6-三甲基环己-1,3-二烯基)-2-丁烯-1-酮;2,6,6-三甲基环己-2-烯-1,4-二酮;2,4-十一碳二烯醛;2-十一碳烯醛;3-乙酰基吡啶;环十七碳-9-烯-1-酮;1,1-二甲氧基乙烷;2,4-二甲基苯甲醛;3-羟基丁酸乙酯;反,反-2,4-己二烯醛;4-己烯-1-醇;2-丁烯酸异丁酯;2-甲氧基-3-(1-甲基丙基)吡嗪;3-甲基-1-环十五烷酮;1-甲基-1-环戊烯-3-酮;1-甲基-3-甲氧基-4-异丙基苯;3-甲基戊酸;3-(甲基硫代)-1-己醇;桃金娘烯醇;3-壬酮;2,2,4-三甲基-1,3-氧杂环戊烷;2,6,10-三甲基-2,6,10-十五碳三烯-14-酮;朱栾倍半萜;D,L-缬氨酸;Dl-(3-氨基-3-羧丙基)二甲基氯化锍;脱氢二氢紫罗醇;脱氢二氢紫罗酮;二环己基二硫醚;1,4-二甲基-4-乙酰基-1-环己烯;2,5-二甲基-2,5-二羟基-1,4-二噻烷;2,5-二甲基-3-呋喃硫醇;异丁酸十二烷基酯;3-乙基-2-羟基-4-甲基环戊-2-烯-1-酮;5-乙基-2-羟基-3-甲基环戊-2-烯-1-酮;N-乙基-2-异丙基-5-甲基环己烷甲酰胺;2-甲基-3-戊烯酸乙酯;苯基乙酸己酯;2-羟基-2-环己烯-1-酮;2-羟基-3,5,5-三甲基-2-环己烯酮;D,L-异薄荷酮;2-异丙基苯酚;异丁酸麦芽酚酯;4-甲基戊酸;2-甲基-

3-戊烯酸;顺-6-壬烯-1-醇;2-反-6-反-辛二烯醛;顺-3-辛烯-1-醇;2-苯基-3-乙酯基呋喃;苯丙酮;1,5,5,9-四甲基-13-氧杂三环(8.3.0.0(4,9))十三烷;硫代香叶醇;2,2,6-三甲基环己酮;2,6,6-三甲基-1-环己烯-1-乙醛;三硫代丙酮;双(2,5-二甲基-3-呋喃基)二硫醚;2,3-丁烷二硫醇;1-丁烷硫醇;小烛树蜡(来自小烛树(Euphorbia Cerifera)的茎和枝干的蜡);邻甲酚;S-(2,5-二甲基-3-呋喃基)硫代-2-糠酸酯;2,5-二甲基-3-硫代异戊酰基呋喃;2,8-二噻农-4-烯-4-甲醛;1,2-乙二硫醇;邻-(乙氧基甲基)苯酚;反-2-丁烯酸乙酯;乙基麦芽酚;2-甲基戊酸乙酯;2-甲基-4-戊烯酸乙酯;十八烷酸乙酯;2-乙基-1,3,3-三甲基-2-降冰片烷醇;十一烷酸乙酯;反-3-庚烯基乙酸酯;反-3-庚烯基2-甲基丙酸酯;1,6-己二硫醇;顺-4-己烯醛;3-己烯基2-甲基丁酸酯;3-己烯基3-甲基丁酸酯;2-甲基丁酸己酯;异戊酸己酯;苯基乙酸沉香基酯;2-巯基-3-丁醇;2,3或10-巯基蒎烷;甲基苄基二硫醚;3-甲基丁基2-甲基丁酸酯;2-甲基丁基3-甲基丁酸酯;3-甲基丁基2-甲基丙酸酯;3-羟基己酸甲酯;α-甲基-β-羟丙基α-甲基-β-巯基丙基硫醚;4-甲基-2-戊烯醛;2-甲基-4-戊烯酸;2-甲基四氢噻吩-3-酮;1,9-壬二硫醇;1,8-辛二硫醇;1-辛烯-3-酮;反-2-辛烯-1-基乙酸酯;反-2-辛烯-1-基丁酸酯;2-糠酸辛酯;2-苯基-4-戊烯醛;1,2-丙烷二硫醇;丙硫醇;邻丙基苯酚;吡咯烷;3,5,5-三甲基己醛;2,4,5-三甲基-δ-3-噁唑啉;2-乙酰氧基-3-丁酮;1,2-丁烷二硫醇;1,3-丁烷二硫醇;间甲酚;环己烷甲酸;3-癸烯-2-酮;二烯丙基多硫醚;1,2-二((1'-乙氧基)乙氧基)丙烷;2,3-二甲基苯并呋喃;二甲基二硫醚;2,6-二甲基-4-庚酮;2,6-二甲基-3-((2-甲基-3-呋喃基)硫代)-4-庚酮;3,7-二甲基-1,3,6-辛三烯;2,6-二甲基吡啶;3,5-二甲基-1,2,4-三硫杂环戊烷;6,10-二甲基-5,9-十一碳二烯-2-酮;巴西酸亚乙酯;环己烷甲酸乙酯;3-羟基己酸乙酯;5-乙基-2-甲基吡啶;3-庚醇;2-羟基苯乙酮;6-羟基二氢茶螺烷;3-羟基-2-戊酮;乙酰乙酸异戊酯;异茉莉酮;异佛尔酮;5-异丙基-2-甲基吡嗪;2-异丙基-4-甲基噻唑;肉豆蔻酸异丙酯;对薄荷-1,8-二烯-7-醛;对薄荷-1,3-二烯;对薄荷-1,4-二烯;对薄荷-1,4(8)-二烯-3-酮;对薄荷-1,8-二烯-7-基乙酸酯;对薄荷烷-2-醇;对薄荷-3-烯-1-醇;对薄荷-8-烯-1-醇;对薄荷-8-烯-2-酮;1-对薄荷烯-9-基乙酸酯;对甲氧基肉桂醛;环己烷甲酸甲酯;2-甲基-3,5或6-乙氧基吡嗪;3-((2-甲基-3-呋喃基)硫代)-4-庚酮;4-((2-甲基-3-呋喃基)硫代)-5-壬酮;5-甲基己酸;甲基2-甲基-3-呋喃基二硫醚;4-甲基壬酸;4-甲基辛酸;甲基1-丙烯基二硫醚;3-甲基-5-丙基-2-环己烯-1-酮;2-甲基-4-丙基-1,3-氧硫杂环己烷;1,4-壬二醇二乙酸酯;顺-6-壬烯醛;3-辛醇;1-辛烯-3-基乙酸酯;3-辛基乙酸酯;1-戊烯-3-醇;L-苯基丙氨酸;2-苯基-3-(2-呋喃基)丙-2-烯醛;2(10)-蒎烯-3-醇;1,3-丙烷二硫醇;间苯二酚;δ-十四内酯;可可碱;(2,2,3-三甲基环戊-3-烯-1-基)乙醛;1,2,3-三((1'-乙氧基)乙氧基)丙烷;马鞭草烯醇;2,5-二甲苯酚;3,4-二甲苯酚;苄基甲基硫醚;2-甲氧基-4-丙基苯酚;2-甲基-反-2-丁烯酸;4-(甲基硫代)丁醇;2-(甲基硫代)甲基-2-丁烯醛;3-辛烯-2-醇;2-辛烯-4-酮;2-甲基丁酸辛酯;3-癸醇;D-木糖;丙基2-甲基-3-呋喃基二硫醚;1-己烯-3-醇;2-乙酰基-5-甲基呋喃;ε-十二内酯;2-丙酰基噻唑;1-辛烯-3-基丁酸酯;ε-癸内酯;2-丙酰基吡咯;噻唑;苯硫酚;苄基二硫醚;5-苯基戊醇;2-(2-丁基)-4,5-二甲基-3-噻唑啉;4,5-二甲基-2-乙基-3-噻唑啉;4,5-二甲基-2-异丁基-3-噻唑啉;δ-1-(2,6,6-三甲基-3-环己烯-1-基)-2-丁烯-1-酮;2-乙基-4-羟基-5-甲基-3(2h)-呋喃酮;α-紫罗醇;β-紫罗醇;二氢-β-紫罗酮;二氢-β-紫罗醇;二氢-α-紫罗酮;2-甲基-4-苯基-2-丁醇;4-甲基-2-戊基-1,3-二氧戊环;环己基甲基吡嗪;2-甲基丁酸苯乙

基酯;3-己烯基苯基乙酸酯;4,5-二甲基-3-羟基-2,5-二氢呋喃-2-酮;4-羟基-5-甲基-3(2h)-呋喃酮;2-甲基-3-硫代乙酰氧基-4,5-二氢呋喃;2-反-6-顺-十二碳二烯醛;2-反-4-顺-7-顺-十三碳三烯醛;2,6,6-三甲基-1和2-环己烯-1-甲醛;对甲基肉桂醛;反-2-癸烯酸乙酯;反-4-癸烯酸乙酯;反-2-辛烯酸乙酯;2-甲基丁基乙酸酯;顺-5-异丙烯基-顺-2-甲基环戊烷-1-甲醛;3-甲基-2-丁烯醛;3-甲基-2-丁烯-1-醇;2,4-癸二烯酸丙酯;对丙基苯酚;水杨酸丁酯;6-乙酰氧基二氢茶螺烷;4-(对乙酰氧基苯基)-2-丁酮;4-乙酰基-6-叔丁基-1,1-二甲基二氢化茚;4-乙酰基-2-甲基嘧啶;4-烯丙基-2,6-二甲氧基苯酚;L-天冬氨酸;乙酸龙脑烯酯;1,4-桉树脑;α-1-(2,6,6-三甲基-2-环己烯-1-基)-2-丁烯-1-酮;9-癸烯酸;橙花醇氧化物;二羟基苯乙酮;2,6-二甲基-6-庚烯-1-醇;2,5-二甲基-4-甲氧基-3(2h)-呋喃酮;2,2-二甲基-5-(1-甲基丙烯-1-基)四氢呋喃;2,6-二甲基苯硫酚;二苯醚;5-鸟苷酸二钠;5-肌苷酸二钠;反,反-2,4-十二碳二烯醛;4-乙基-2,6-二甲氧基苯酚;2-乙基-4,5-二甲基噁唑;2-乙基呋喃;3-(糠基硫代)丙酸乙酯;反-2-己烯酸乙酯;1-乙基己基愒各酸酯;3-巯基丙酸乙酯;2-甲基-3,4-戊二烯酸乙酯;3-甲基戊酸乙酯;2-乙基-4-甲基噻唑;4-(甲基硫代)丁酸乙酯;顺-4,7-辛二烯酸乙酯;3-氧代己酸乙酯;L-谷氨酰胺;5-羟基癸酸甘油酯;5-羟基十二烷酸甘油酯;乙酸愈创木基酯;顺-3-己烯基苯甲酸酯;顺-3-己烯基顺-3-己烯酸酯;顺-3-己烯基乳酸酯;苯甲酸己酯;反-2-己烯酸己酯;2-甲基-3和4-戊烯酸己酯;L-组氨酸;氢醌单乙基醚;5-羟基-2,4-癸二烯酸δ-内酯;2-羟基-4-甲基苯甲醛;异丁子香基苄基醚;2-甲基丁酸异丙酯;1-对薄荷烯-8-硫醇;甲基1-乙酰氧基环己基酮;乙酸甲基苄酯(混合的邻、间、对);3-甲基-2-丁醇;4-甲基-2,6-二甲氧基苯酚;2-甲基-1,3-二硫杂环戊烷;2-羟基-4-甲基戊酸甲酯;2-甲基戊酸甲酯;2-甲基硫代丁酸甲酯;烟酸甲酯;3-壬烯酸甲酯;2-甲基-2-辛烯醛;反-2-辛烯酸甲酯;2-氧代-3-甲基戊酸甲酯;山梨酸甲酯;7-甲基-4,4a,5,6-四氢-2(3h)-萘酮;4-甲基噻唑;2-(甲基硫代甲基)-3-苯基丙烯醛;3-甲基-1,2,4-三噻烷;β-萘基异丁基醚;顺-2-壬烯-1-醇;反,反-2,4-辛二烯醛;顺-5-辛烯-1-醇;2-氧代丁酸;2-十五烷酮;2-戊基-1-丁烯-3-酮;D,L-苯基丙氨酸;1-苯基-3或5-丙基吡唑;4-丙烯基-2,6-二甲氧基苯酚;4-丙基-2,6-二甲氧基苯酚;L-鼠李糖;1,2,5,6-四氢枯茗酸;索马甜;对甲苯基辛酸酯;邻甲苯基水杨酸酯;2,2,6-三甲基-6-乙烯基四氢吡喃;L-酪氨酸;香草醇;亚香草基丙酮;对乙烯基苯酚;苯基乙酸茴香酯;α-龙脑烯醇;5-和6-癸烯酸;2,5-二乙基四氢呋喃;5-羟基-2-癸烯酸δ-内酯;5-羟基-7-癸烯酸δ-内酯;沉香醇氧化物;厚壳桂皮油(马索厚壳桂(Cryptocarya Massoio));L-薄荷基乳酸酯;顺-5-辛烯醛;桂花纯化物(桂花(Osmanthus Fragrans Lour.));2-(3-苯丙基)吡啶;2-(1'-乙氧基)乙氧基丙酸钾;邻甲苯基异丁酸酯;香草醛异丁酸酯;脱氢薄荷呋喃内酯;4-乙基苯甲醛;甲基-对甲苯基缩水甘油酸乙酯;5-羟基-8-十一碳烯酸δ-内酯;5-异丙烯基-2-甲基-2-乙烯基四氢呋喃;1-(4-甲氧基苯基)-4-甲基-1-戊烯-3-酮;5-甲基-2-庚烯-4-酮;3-甲基-1-戊醇;3-甲基-2-(N-戊基)-2-环戊烯-1-酮;薄荷内酯;乙酸桃金娘烯基酯;2-反-6-反-壬二烯醛;3-氧代癸酸甘油酯;3-氧代十二烷酸甘油酯;3-氧代十六烷酸甘油酯;3-氧代己酸甘油酯;3-氧代辛酸甘油酯;3-氧代十四烷酸甘油酯;2-(4-甲氧基苯氧基)丙酸钠;茶螺烷;乙醛乙基顺-3-己烯基缩醛;二氢诺卡酮;1-乙氧基-3-甲基-2-丁烯;(Z)-3和(E)-2-己烯基丙酸酯;硫化氢;1,4-十二-6-烯酸内酯;2或4-异丁基-(4或2),6-二甲基二氢-4h-1,3,5-二噻嗪;2或4-异丙基-(4或2),6-二甲基二氢-4h-1,3,5-二噻嗪;莲雾油树脂;3-L-薄荷氧基丙

烷-1,2-二醇;4-甲氧基-2-甲基-2-丁烷硫醇;γ-甲基癸内酯;2-甲基-3-四氢呋喃硫醇;甲基硫代2-(乙酰氧基)丙酸酯;3-(甲基硫代)己基乙酸酯;甲基硫代-2-(丙酰氧基)丙酸酯;八氢香豆素;2-戊硫醇;D-核糖;香紫苏内酯;1,3,5-十一碳三烯;香草基丁基醚;4-乙酰氧基-2,5-二甲基-3(2h)呋喃酮;2,4-二羟基苯甲酸;1,2-二甲氧基苯;4-乙基辛酸;乙基香草醛β-D-吡喃葡萄糖苷;5-羟基-2-十二碳烯酸内酯;4-羟基-3-甲基辛酸内酯;2-异丙基-N,2,3-三甲基丁酰胺;L-薄荷醇乙二醇碳酸酯;L-薄荷醇1-和2-丙二醇碳酸酯;L-薄荷酮1,2-甘油缩酮;D,L-薄荷酮1,2-甘油缩酮;顺-和反-薄荷酮-8-硫代乙酸酯;琥珀酸单薄荷基酯;新橙皮苷二氢查耳酮;3-甲氧基-4-羟基肉桂酸钠;牛磺酸;索马甜B-重组体;香草基乙基醚;3-乙酰基巯基己基乙酸酯;2-乙酰基-2-噻唑啉;Dl-丙氨酸;L-精氨酸;1-丁烯-1-基甲基硫醚;δ-3-蒈烯;环紫罗酮;玳玳果皮油;1-癸烯-3-醇;二乙基硫醚;2,5-二羟基-1,4-二噻烷;二异丙基二硫醚;2,4-二甲基茴香醚;2-(3,7-二甲基-2,6-辛二烯基)环戊酮;(E,R)-3,7-二甲基-1,5,7-辛三烯-3-醇;1,4-二噻烷;2,4,7-癸三烯酸乙酯;2-乙基己硫醇;2-(甲基二硫代)丙酸乙酯;2-(甲基硫代)乙酸乙酯;3-(甲基硫代)丁酸乙酯;乙基香草醛异丁酸酯;乙基香草醛丙二醇缩醛;α-金合欢烯;4-[(2-呋喃甲基)硫代]-2-戊酮;(Z)-4-庚烯-1-醇;1-己硫醇;3-羟基-2-氧代丙酸;β-紫罗基乙酸酯;α-异甲基紫罗基乙酸酯;山苍子油;L-赖氨酸;顺-和反-对-1(7),8-薄荷二烯-2-基乙酸酯;3-(L-薄荷氧基)-2-甲基丙烷-1,2-二醇;3-巯基己醇;3-巯基己基乙酸酯;3-巯基己基丁酸酯;3-巯基己基己酸酯;3-巯基-3-甲基-1-丁醇;3-巯基-3-甲基丁基甲酸酯;1-巯基-2-丙酮;S-甲基苯并硫酯;3-甲基丁烷硫醇;(E)-2-(Z)-4-癸二烯酸甲酯;甲基乙基硫醚;甲基乙基三硫醚;S-甲基己烷硫酯;2-(4-甲基-2-羟苯基)丙酸-γ-内酯;S-甲基3-甲基丁烷硫酯;甲基3-甲基-1-丁烯基二硫醚;2-甲基-2-(甲基二硫代)丙醛;S-甲基4-甲基戊烷硫酯;(E)-7-甲基-3-辛烯-2-酮;3-甲基-2-氧代丁酸;3-甲基-2-氧代戊酸;4-甲基-2-氧代戊酸;甲基苯基二硫醚;甲基苯基硫醚;2-甲基-1-丙硫醇;甲基亚磺酰甲烷;S-甲基硫代乙酸酯;3-甲基硫代己醛;双-(甲基硫代)甲烷;丁酸甲基硫代甲基酯;己酸甲基硫代甲基酯;4-(甲基硫代)-2-氧代丁酸;1-甲基硫代-2-丙酮;3-(甲基硫代)丙基乙酸酯;(E)-3-(Z)-6-壬二烯-1-醇;(Z)(Z)-3,6-壬二烯-1-醇;8-罗勒烯基乙酸酯;(E)-2-辛烯-1-醇;(E)-2-辛烯-4-醇;(E)-2-(2-辛烯基)环戊酮;(Z)-5-辛烯基丙酸酯;2-氧代戊二酸;2-氧代-3-苯基丙酸;2-戊基丁酸酯;苯基乙硫醇;硫代乙酸异戊二烯基酯;异戊二烯硫醇;2-丙硫醇;1-吡咯啉;佛手油;二乙酸钠;3-巯基氧代丙酸钠;茶树油;2,3,4-三甲基-3-戊醇;香草醛3-(L-薄荷氧基)丙烷-1,2-二醇缩醛;香草醛丙二醇缩醛;2-氨基苯乙酮;丁酸冰片酯;(E)-2-丁烯酸;环己酮;环戊酮;2,4-癸二烯-1-醇;9-癸烯醛;2-癸烯酸;4-癸烯酸;2,5-二乙基-3-甲基吡嗪;3,5-二乙基-2-甲基吡嗪;6,7-二氢-2,3-二甲基-5h-环戊吡嗪;对叔丁基苯酚;2-乙基-6-甲基吡嗪;(E)-2-庚烯酸;2,4-己二烯酸;(E,E)-,2,4-己二烯-1-醇;3-己烯醛;(Z)-2-己烯-1-醇;顺-3-己烯基邻氨基苯甲酸酯;反-2-己烯基丁酸酯;(E)-2-己烯基甲酸酯;3-己烯基2-己烯酸酯;顺-3-己烯基异丁酸酯;反-2-己烯基异戊酸酯;顺-3-己烯基惕各酸酯;反-2-己烯基丙酸酯;顺-3-己烯基丙酸酯;3-己烯基2-氧代丙酸酯;反-2-己烯基戊酸酯;顺-3-己烯基戊酸酯;5-(顺-3-己烯基)二氢-5-甲基-2(3h)呋喃酮;4-异丙基-2-环己烯酮;2-异丙基吡嗪;2-甲基-3-(1-氧代丙氧基)-4h-吡喃-4-酮;牧豆树提取物;2-甲氧基苯甲酸;3-甲氧基苯甲酸;4-甲氧基苯甲酸;2-甲基环己酮;3-甲基环己酮;4-甲基环己酮;2-甲基-3-(甲基硫代)呋喃;白玉兰油;2,4-壬二烯-

1-醇;(E,Z)-2,6-壬二烯-1-醇乙酸酯;(E,Z)-3,6-壬二烯-1-醇乙酸酯;(E)-2-壬烯酸;3-壬烯-2-酮;(E,E)-2,4-辛二烯-1-醇;(E)-2-辛烯酸;乙酸苯酯;2-苯基苯酚;水杨酸苯酯;丙基吡嗪;3,5,5-三甲基环己醇;2,3,6-三甲基苯酚;2-乙酰基-3-甲基吡嗪;1-氨基-2-丙醇;3-癸酮;顺-4-癸烯基乙酸酯;二异丙基三硫醚;(E)和(Z)-4,8-二甲基-3,7-壬二烯-2-酮;2,5-二甲基-3-氧代-(2h)-呋喃-4-基丁酸酯;顺和反-2,5-二甲基四氢呋喃-3-硫醇;顺和反-2,5-二甲基四氢-3-呋喃基硫代乙酸酯;乙硫酸;S-(2-甲基-3-呋喃基)酯;4-(乙酰基硫代)丁酸乙酯;顺-4-庚烯酸乙酯;5-己烯酸乙酯;(+/-)-乙基3-巯基丁酸酯;5-(甲基硫代)戊酸乙酯;糠基丙基二硫醚;(+/-)-庚-3-基乙酸酯;(+/-)-庚-2-基丁酸酯;(Z)-3-己烯基(E)-2-丁烯酸酯;(E)-2-己烯基己酸酯;4-羟基苯甲醛;2-羟基苯甲酸;4-羟基苯甲酸;4-羟基苄醇;4-羟基-3-甲氧基苯甲酸;3(2)-羟基-5-甲基-2(3)-己酮;异亚戊基异戊胺;乙酸异戊二烯基酯(Isoprenyl Acetate);D,L-薄荷醇(+/-)-丙二醇碳酸酯;赤和苏-3-巯基-2-甲基丁-1-醇;3-巯基-2-甲基戊醛;(+/-)-2-巯基-2-甲基戊-1-醇;3-巯基-2-甲基戊-1-醇(外消旋);4-巯基-4-甲基-2-戊酮;(+/-)-2-甲基-1-丁醇;(+/-)-3-甲基-γ-癸内酯;2-甲基庚-3-酮;(E)-6-甲基-3-庚烯-2-酮;2-甲基-2-丙烯酸甲酯;(甲基硫代)乙酸甲酯;2-(甲基硫代)乙醇;12-甲基十三醛;L-单薄荷基戊二酸酯;(+/-)-壬-3-基乙酸酯;(E,E)-3,5-辛二烯-2-酮;(+/-)-辛-3-基甲酸酯;三聚乙醛;4-戊烯基乙酸酯;2-戊基乙酸酯;紫苏叶油;异硫氰酸苯乙基酯;吡嗪;4-甲氧基苯甲酰氧基乙酸钠;2,4,6-三异丁基-5,6-二氢-4h-1,3,5-二噻嗪;2,4,6-三甲基二氢-4h-1,3,5-二噻嗪;3,7,11-三甲基-2,6,10-十二碳三烯醛;(+/-)-(2,6,6-三甲基-2-羟基亚环己基)乙酸γ-内酯;三硫杂己烷-2,3,5,6-十一烷酮;香草醛赤和苏-丁-2,3-二醇缩醛;乙醛二异戊基缩醛;戊基甲基二硫醚;己酸苄酯;丁基乙基二硫醚;β-环糊精;二乙基三硫醚;(+/-)-3,5-二乙基-1,2,4-三硫杂环戊烷;(+/-)-二氢金合欢醇;二氢薄荷内酯;二羟基丙酮;2,5-二甲基-3-呋喃硫醇乙酸酯;2,5-二甲基噻唑;(Z)-4-十二烯醛;4,5-环氧-(E)-2-癸烯醛;乙基3-乙酰氧基-2-甲基丁酸酯;S-乙基2-乙酰基氨基硫代乙酸酯;乙基甲基二硫醚;乙基丙基二硫醚;乙基丙基三硫醚;邻-乙基S-(2-呋喃基甲基)硫代碳酸酯;愒各酸香叶基酯;葡萄籽提取物;反-4-己烯醛;(E)-2-己烯醛二乙基缩醛;2-己基-4,5-二甲基-1,3-二氧戊环;4-羟基-3,5,-二甲氧基苯甲醛;4-羟基-2,3-二甲基-2,4-壬二烯酸γ内酯;4-羟基-4-甲基-5-己烯酸γ内酯;3-羟基-4-苯基丁-2-酮;对薄荷烷-3,8-二醇;L-薄荷基甲基醚;5-乙酰氧基己酸甲酯;3-[(2-甲基-3-呋喃基)硫代]-2-丁酮;3-甲基-2,4-壬二酮;(+/-)-2-(5-甲基-5-乙烯基-四氢呋喃-2-基)丙醛;9-十八碳烯醛;2,3-辛二酮;(+/-)-1-苯基乙硫醇;4-丙烯基苯酚;2-丙酰基吡咯啉;2-丙酰基-2-噻唑啉;2-丙基吡啶;(Z)-8-十四烯醛;晚香玉内酯;2-十一碳烯-1-醇;(+/-)-1-乙酰氧基-1-乙氧基乙烷;4-乙酰基-2,5-二甲基-3(2h)-呋喃酮;2-乙酰基-3,5-二甲基呋喃;巴豆酸烯丙基酯;烯丙基丙基二硫醚;戊酸烯丙基酯;4-烯丙基苯酚;硫代己酸烯丙基酯;邻茴香醛;N-苯甲酰基邻氨基苯甲酸;侧柏醇;L-乙酸冰片酯;2-丁基呋喃;异硫氰酸丁酯;2-丁酰呋喃;香芹酮-5,6-氧化物;β-石竹烯氧化物;邻氨基苯甲酸香茅基酯;N-环丙基-反-2-顺-6-壬二烯酰胺;反-α-突厥酮;2,4,7-癸三烯醛;2-癸基呋喃;脱氢诺卡酮;甘油单酯和甘油二酯的二乙酰基酒石酸酯;二乙基二硫醚;3,6-二乙基-1,2,4,5-四噻烷与3,5-二乙基-1,2,4-三硫杂环戊烷的混合物;2,4-二糠基呋喃;硫代苹果酸二异戊基酯;二巯基甲烷;1,1-二甲氧基-反-2-己烯;2,4-二甲基-1,3-二氧戊环;3,5-和3,6-二甲基-2-异丁基吡嗪;2,5-

二甲基-3(2h)-呋喃酮;(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-醇;(+/-)-反-和顺-4,8-二甲基-3,7-壬二烯-2-基乙酸酯;2,5-二甲基-4-乙氧基-3(2h)-呋喃酮;(+/-)-反-和顺-5-(2,2-二甲基环丙基)-3-甲基-2-戊烯醛;2,5-二甲基呋喃;双香草醛;(+/-)-2,8-环硫代-顺-对薄荷烷;环氧氧代佛尔酮;番茄红素;乙烷-1,1-二硫醇;顺-3-己烯酸乙酯;N-乙基反-2-顺-6-壬二烯酰胺;乙基糠基醚;N-乙基邻氨基苯甲酸乙酯;N-甲基邻氨基苯甲酸乙酯;(+/-)-4-乙基辛醛;异戊酸丁子香基酯;糠基2-甲基-3-呋喃基二硫醚;1-(2-呋喃基)丁-3-酮;香叶酸;2-甲基丁酸香叶基酯;戊酸香叶基酯;脂肪酸的甘油-乳酸酯;庚-反-2-烯-1-基乙酸酯;庚-2-烯-1-基异戊酸酯;反-2-反-4-庚二烯-1-醇;2-庚硫醇;(+/-)-1-庚烯-3-醇;顺-和反-2-庚基环丙基甲酸;2,4-己二烯基丙酸酯;2,4-己二烯基乙酸酯;2,4-己二烯基丁酸酯;2,4-己二烯基异丁酸酯;2-己烯基辛酸酯;3-巯基丁酸己酯;2-己基噻吩;4-羟基-2-丁烯酸γ-内酯;3-羟基-2-辛酮;2-(2-羟基-4-甲基-3-环己烯基)丙酸γ-内酯;5-羟基-4-甲基己酸δ-内酯;1-(3-羟基-5-甲基-2-噻吩基)乙酮;(+/-)-2-羟基胡椒酮;β-紫罗酮环氧化物;异黄葵内酯;异丁酸异冰片酯;2-甲基丁酸异冰片酯;N-异丁基十-反-2-反-4-二烯酰胺;N-甲基邻氨基苯甲酸异丁酯;(+/-)-异丁基3-甲基硫代丁酸酯;β-异甲基紫罗酮;乙酸异丙烯酯;甘油和丙二醇的乳酰化脂肪酸酯;2-(L-薄荷氧基)乙醇;薄荷基吡咯烷酮甲酸酯;戊酸薄荷基酯;4-巯基-2-戊酮;(+/-)-4-巯基-4-甲基-2-戊醇;2-巯基茴香醚;丁酸甲硫氨酰基酯;反-和顺-1-甲氧基-1-癸烯;(S1)-甲氧基-3-庚硫醇;2-甲氧基苯乙酮;顺-3-己烯酸甲酯;顺-5-辛烯酸甲酯;3-(甲基硫代)丁酸甲酯;3-巯基丁酸甲酯;甲基异戊基二硫醚;N,N-二甲基邻氨基苯甲酸甲酯;N-乙酰基邻氨基苯甲酸甲酯;N-甲酰基邻氨基苯甲酸甲酯;S-甲基丙烷硫酯;2-甲基-1-甲基硫代-2-丁烯;3-甲基-2(3-甲基丁-2-烯-1-基)呋喃;3-(5-甲基-2-呋喃基)丙-2-烯醛;5-甲基-3(2h)-呋喃酮;6-甲基-5-庚烯-2-基乙酸酯;2-甲基丁-2-烯-1-醇;2-甲基呋喃;4-甲基戊-2-烯酸;3-(甲基硫代)-2-丁酮;4-(甲基硫代)-2-戊酮;(+/-)-3-(甲基硫代)庚醛;3-(甲基硫代)甲基噻吩;甲基硫代甲基硫醇;脂肪酸的甘油单酯和甘油二酯;壬-2,4,6-三烯醛;2-壬烯酸γ-内酯;顺-3-辛烯基丙酸酯;L-鸟氨酸单盐酸盐/鸟氨酸;戊-2-烯基己酸酯;2-戊酰基呋喃;2-戊烯酸;(+/-)-2-苯基-4-甲基-2-己烯醛;苯酞;叶绿醇;乙酸叶绿基酯;3-松茨酮;胡椒烯酮醚;L-胡椒酮;脂肪酸的聚甘油酯;乙酸异戊二烯基酯(Prenyl Acetate);苯甲酸异戊二烯基酯;己酸异戊二烯基酯;甲酸异戊二烯基酯;异丁酸异戊二烯基酯;2-巯基丙酸丙酯;脂肪酸的丙二醇单酯和二酯;十四-2-烯醛;硫代乙酸;反-和顺-2,4,8-三甲基-3,7-壬二烯-2-醇;(+/-)-2,4,8-三甲基-7-壬烯-2-醇;3,7,11-三甲基十二-2,6,10-三烯基乙酸酯;2,4,6-三硫杂庚烷;酪胺;马鞭草烯酮;岩兰草醇;乙酸岩兰草基酯;日本薄荷油(田野薄荷(Mentha Arvensis L.));长柄日光菊(Heliopsis Longipes)提取物;苏格兰绿薄荷油;苏格兰留兰香(Mentha Cardiaca L.);天然山核桃木烟调味料;甜菜碱;腺苷单磷酸酯;腺苷酸单钠或腺苷酸二钠;酶改性的异槲皮苷;松香的甘油酯;阿拉伯胶;辛烯丁二酸氢酯;(-)-高圣草酚钠盐;甜菜汁提取物;(+/-)-N,N-二甲基薄荷基琥珀酰胺;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;N-(庚-4-基)苯并[D][1,3]间二氧杂环戊烯-5-甲酰胺;N1-(2,4-二甲氧基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;N1-(2-甲氧基-4-甲基苄基)-N2-(2-(5-甲基吡啶-2-基)乙基)草酰胺;1,6-己内酰胺;乙胺;丙胺;异丙胺;异丁胺;仲丁胺;2-甲基丁胺;戊胺;己胺;2-甲基哌啶;三甲胺氧化物;三乙胺;三丙胺;N,N-二甲基苯乙胺;2-乙酰基-1-吡咯

啉;哌嗪;丁酰胺;10-十一碳烯酸甲酯;N-葡糖基乙醇胺;N-葡糖基乙醇胺磷酸酯;N-乳酰基乙醇胺;N-乳酰基乙醇胺磷酸酯;乙硫醇;庚烷-1-硫醇;S-异丙基3-甲基丁-2-烯硫酯;3-甲基己醛;4-戊烯醛;丙烷硫代磺酸丙酯;α-紫罗烯;胶栀子(Gardenia Gummifera)馏出物;荜茇馏出物;N-3,7-二甲基-2,6-辛二烯基环丙基甲酰胺;(+/-)-乙基2-羟基-2-甲基丁酸酯;(+/-)-乙基2-羟基-3-甲基戊酸酯;2-(2-羟苯基)环丙基甲酸δ内酯;2-癸酮;(+/-)-反-和顺-2-己烯醛丙二醇缩醛;(+/-)-反-和顺-2-己烯醛甘油基缩醛;反-2-己烯基2-甲基丁酸酯;2-(4-甲基-5-噻唑基)乙基甲酸酯;2-(4-甲基-5-噻唑基)乙基丙酸酯;2-(4-甲基-5-噻唑基)乙基丁酸酯;2-(4-甲基-5-噻唑基)乙基异丁酸酯;2-(4-甲基-5-噻唑基)乙基己酸酯;2-(4-甲基-5-噻唑基)乙基辛酸酯;2-(4-甲基-5-噻唑基)乙基癸酸酯;(+/-)-3-(乙基硫代)丁醇;燕根(Decalepis Hamiltonii)提取物;2-(反-2-戊烯基)环戊酮;3,9-二甲基-6-(1-甲基乙基)-1,4-二氧杂螺[4.5]癸-2-酮;顺-和反-2-异丁基-4-甲基-1,3-二氧戊环;顺-和反-2-异丙基-4-甲基-1,3-二氧戊环;4-氨基丁酸;3-巯基庚基乙酸酯;反-2-甲基-2-戊烯酸乙酯;甲基己基醚;反-2-反-4-壬二烯;1-辛烯;顺-和反-乙基2,4-二甲基-1,3-二氧戊环-2-乙酸酯;反-2-甲基-2-丁烯酸香茅基酯;5-乙酰基-2,3-二氢-1,4-噻嗪;双(1-巯基丙基)硫醚;2,5-二硫杂己烷;假紫罗酮;顺-和反-L-巯基-对薄荷烷-3-酮;反-2-壬烯-4-酮;反-4-壬烯醛;1,1'-(四氢-6a-羟基-2,3a,5-三甲基呋喃并[2,3-D]-1,3-间二氧杂环戊烯-2,5-二基)双-乙酮;反-2-癸烯醇;顺-2-戊烯醇;2-甲基丁基3-甲基-2-丁烯酸酯;甘油的柠檬酸酯和脂肪酸酯;L-薄荷基(R,S)-3-羟基丁酸酯;N-[(乙氧基羰基)甲基)-对薄荷烷-3-甲酰胺;N-[2-(3,4-二甲氧基苯基)乙基]-3,4-二甲氧基肉桂酸酰胺;甲基环己二烯与亚甲基环己烯的混合物;(+/-)-顺-和反-1,2-二氢紫苏醛;5,7-二羟基-2-(3-羟基-4-甲氧基苯基)色满-4-酮;癸酸苯乙基酯;3,6-二甲基-2,3,3a,4,5,7a-六氢苯并呋喃;2-甲基苯乙酮;1-乙基-2-吡咯甲醛;顺-和反-5-乙基-2,5-二氢-4-甲基-2-(1-甲基丙基)-噻唑;顺和反-5-乙基-4-甲基-2-(2-甲基丙基)-噻唑啉;2-甲基-3-呋喃基甲基硫代甲基二硫醚;吡咯烷基-[1,2e]-4h-2,4-二甲基-1,3,5-二噻嗪;S-烯丙基-L-半胱氨酸;5-戊基-3h-呋喃-2-酮;3-巯基-3-甲基-1-丁基乙酸酯;(+/-)-3-巯基-1-丁基乙酸酯;5-壬烯-反-2-酮;L-薄荷基乙酰乙酸酯;4-辛烯-3-酮;2,4,6-三甲基苯酚;4-羟基苯乙酮;(+/-)-[R-(E)]-5-异丙基-8-甲基壬-6,8-二烯-2-酮;1-甲基-1h-吡咯-2-甲醛;1-戊硫醇;十五烷酸;十三醛;十三烷酸;庚酸己酯;丙酸十二烷基酯;壬酸己酯;丁酸十二烷基酯;庚酸庚酯;癸酸己酯;4-甲基戊酸乙酯;2-乙基丁酸乙酯;2-乙基己酸乙酯;5-甲基己基乙酸酯;4-甲基戊基异戊酸酯;3,7-二甲基辛醛;顺-4-癸烯醇;顺-5-辛烯酸;5-己烯醇;3-异丙烯基戊二酸;4-戊烯酸甲酯;顺-4-辛烯醇;11-十二碳烯酸;反-3-己烯醇;反-4-辛烯酸;10-十一碳烯酸异丁酯;顺-9-十八碳烯基乙酸酯;4-戊烯酸乙酯;3-辛烯酸乙酯;3-辛烯酸;顺-9-十八碳烯醇;癸醛丙二醇缩醛;乙醛己基异戊基缩醛;十二醛二甲基缩醛;壬醛二甲基缩醛;庚醛丙二醇缩醛;己醛己基异戊基缩醛;己醛二己基缩醛;异戊醛二乙基缩醛;戊醛丙二醇缩醛;壬醛丙二醇缩醛;十一醛丙二醇缩醛;戊醛二丁基缩醛;乙醛1,3-辛二醇缩醛;己醛辛烷-1,3-二醇缩醛;异戊醛甘油基缩醛;乙醛二-顺-3-己烯基缩醛;2,6-二甲基-5-庚烯醛丙二醇缩醛;辛醛丙二醇缩醛;己醛丁烷-2,3-二醇缩醛;美洲山核桃壳粉;二-(1-丙烯基)-硫醚(异构体的混合物);2-戊基噻吩;5-乙基-2-甲基噻唑;2,4-二甲基吡啶;3-(4-羟苯基)-1-(2,4,6-三羟苯基)丙-1-酮;(+/-)-乙基3-羟基-2-甲基丁酸酯;(+/-)-乙基3-巯基-2-甲基丁酸酯;

(+/-)-顺-和反-2-甲基-2-(4-甲基-3-戊烯基)环丙甲醛;三甲基噁唑;2,5-二甲基-4-乙基噁唑;2-丙基-4,5-二甲基噁唑;2-异丁基-4,5-二甲基噁唑;2-甲基-4,5-苯并噁唑;2-壬酮丙二醇缩醛;6-甲基-5-庚烯-2-酮丙二醇缩醛;2-戊基2-甲基戊酸酯;3-辛基丁酸酯;巴豆酸二甲基苄基卡宾基酯;己酸二甲基苄基卡宾基酯;1,5-辛二烯-3-酮;10-十一碳烯-2-酮;2,4-二甲基-4-壬醇;8-壬烯-2-酮;8-对薄荷烯-1,2-二醇;石竹烯醇;D-2,8-对薄荷二烯-1-醇;顺-3-壬烯-1-醇;反-3-己烯基乙酸酯;4-(甲基硫代)丁基异硫氰酸酯;6-(甲基硫代)己基异硫氰酸酯;5-(甲基硫代)戊基异硫氰酸酯;异硫氰酸戊基酯;3-丁烯基异硫氰酸酯;2-丁基异硫氰酸酯;异硫氰酸乙酯;5-己烯基异硫氰酸酯;异硫氰酸己酯;异硫氰酸异戊酯;异硫氰酸异丁酯;异硫氰酸异丙酯;异硫氰酸甲酯;4-戊烯基异硫氰酸酯;异硫氰酸苄酯;2,4-二甲基-3-噁唑啉;3,4-二羟基苯甲酸;3-羟基苯甲酸;(+/-)-乙醛乙基异丙基缩醛;(+/-)-6-甲基辛醛;5-乙基-2,3-二甲基吡嗪;2-羟基-4-甲氧基苯甲醛;3-(甲基硫代)丙基己酸酯;月桂基硫酸钠;β-当归内酯;7-癸烯-4-内酯;9-癸烯-5-内酯;8-癸烯-5-内酯;6-[5(6)-癸烯酰基氧基]癸酸;5-乙酰氧基辛酸乙酯;5-羟基癸酸乙酯;9-十二碳烯-5-内酯;γ-十八内酯;δ-十八内酯;9-十四碳烯-5-内酯;奥林内酯(Orin Lactone);3-羟基丁酸甲酯;3-乙酰氧基-2-甲基丁酸甲酯;2-乙酰基己酸乙酯;3-羟基辛酸乙酯;3-乙酰氧基辛酸甲酯;5-氧代辛酸;5-氧代癸酸;5-氧代癸酸乙酯;5-氧代十二烷酸;2-乙酰基辛酸乙酯;2-氧代-3-乙基-4-丁内酯;3-异丙烯基-6-氧代庚酸;羟基丙酮;1-羟基-4-甲基-2-戊酮;丙二醇二乙酸酯;丙二醇二丙酸酯;丙二醇二丁酸酯;丙二醇单-2-甲基丁酸酯;丙二醇二-2-甲基丁酸酯;丙二醇单己酸酯;丙二醇二己酸酯;丙二醇二辛酸酯;己二酸二甲基酯;己二酸二丙基酯;己二酸二异丙基酯;己二酸二异丁基酯;己二酸二辛基酯;乙酰乙酸乙酯乙二醇缩酮;乙酰丙酸甲酯;乙酰丙酸乙酯丙二醇缩酮;乙酰丙酸丙酯;乙酰丙酸异戊酯;乳酸十二烷基酯;乳酸十六烷基酯;丙酮酸丙酯;羟基香茅醛丙二醇缩醛;柠檬醛甘油基缩醛;蒸馏的蘑菇油;丙二醇单丁酸酯;顺-3-己烯基乙酰乙酸酯;2-甲氧基-6-(2-丙烯基)苯酚;杨梅苷;(R)-(-)-1-辛烯-3-醇;顺-3-己烯酸;氨(也包括氯化铵);柚皮苷二氢查耳酮;N-对苯乙腈薄荷烷甲酰胺;毕澄茄醇;6-甲基庚醛,(+/-)-顺-和反-2-戊基-4-丙基-1,3-氧硫杂环己烷;氯化胆碱(也包括胆碱);3-[(2-甲基-3-呋喃基)硫代]丁醛;(-)-香紫苏醇;(+)-雪松醇;D-柠檬烯-10-醇;(2,4)-和(3,5)-和(3,6)-二甲基-3-环己烯基甲醛;1,3-对薄荷二烯-7-醛;对薄荷烷-7-醇;对薄荷-1-烯-9-醇;甲酸薄荷基酯;丙酸薄荷基酯;甲基环戊烯醇酮丙酸酯;3,3,5-三甲基环己基乙酸酯;Dl-樟脑;2-环戊基环戊酮;棕榈酸香芹基酯;环己酮二乙基缩酮;2-环己烯酮;8,9-脱氢茶香螺酮;L-葑酮;乙二胺四乙酸二钠盐;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-醇;2,2,6,7-四甲基二环[4.3.0]壬-4,9(1)-二烯-8-酮;6-羟基香芹酮;L-薄荷基丁酸酯;异丁酸松香芹基酯;2-戊烯基-4-丙基-1,3-氧硫杂环己烷(异构体的混合物);乙醛二-异丁基缩醛;乙醛乙基异丁基缩醛;4-(2,2,3-三甲基环戊基)丁酸;紫苏醛丙二醇缩醛;2,6,6-三甲基-2-羟基环己酮;乙偶姻丙二醇缩酮;4,5-辛二酮;乙基麦芽酚异丁酸酯;2-四氢糠基2-巯基丙酸酯;橙花叔醇氧化物;糠醛丙二醇缩醛;3-(糠基硫代)丙酸甲酯;癸酸糠基酯;二-2-呋喃基甲烷;(E)-乙基3-(2-呋喃基)丙烯酸酯;甲酸糠基酯;2-甲基苯并呋喃;5-甲基糠醇;2-甲基-3-呋喃基2-甲基-3-四氢呋喃基二硫醚;乙基2,5-二甲基-3-氧代-4(2h)-呋喃基碳酸酯;巴西莓提取物;4-(2-丙烯基)苯基-β-D-吡喃葡萄糖苷;N-(2-(吡啶-2-基)乙基)-3-对薄荷烷甲酰胺;(+/-)-N-乳酰基酪胺;顺,顺-3,6-壬

二烯基乙酸酯;反-2-壬烯基乙酸酯;顺-3-壬烯基乙酸酯;顺-6-壬烯基乙酸酯;乙酸二氢高良姜基酯;2,3,3-三甲基茚酮;N-乙基-2,2-二异丙基丁酰胺;环丙基甲酸(2-异丙基-5-甲基环己基)酰胺;木兰醇;2-(甲基硫代)乙基乙酸酯;3-(甲基硫代)丙基巯基乙酸酯;乙基2-羟乙基硫醚;3-(甲基硫代)-顺-2-丙烯酸乙酯;3-(甲基硫代)-反-2-丙烯酸乙酯;3-(甲基硫代)-2-丙烯酸乙酯;4-甲基-2-(甲基硫代甲基)-2-己烯醛;5-甲基-2-(甲基硫代甲基)-2-己烯醛;4-甲基-2-(甲基硫代甲基)-2-戊烯醛;1-(3-(甲基硫代)-丁酰基)-2,6,6-三甲基环己烯;2-氧代硫杂环戊烷;β-(甲基硫代)丙烯酸丁酯;3-(乙基硫代)丁酸乙酯;甲基辛基硫醚;甲基1-丙烯基硫醚;二异戊基二硫醚;双(2-甲基苯基)二硫醚;丁基丙基二硫醚与丙基和丁基二硫醚的混合物;二仲丁基二硫醚;甲基2-甲基苯基二硫醚;二异戊基三硫醚;十二硫醇;2-羟基乙硫醇;4-巯基-4-甲基-2-己酮;3-巯基-3-甲基丁基异戊酸酯;3-巯基己醛;异硫代丁酸甲酯;3-巯基丙酸;2-乙基己基3-巯基丙酸酯;丁醛二苄基硫缩醛;甲硫基丙醛二乙基缩醛;乙基里哪基醚;月桂烯基甲基醚;沉香醇氧化物吡喃型;2-羟基-5-甲基苯乙酮;2-苯基丙醛丙二醇缩醛;肉桂醛丙二醇缩醛;α-乙酰基肉桂酸乙酯;2-羟基-3-苯基丙酸乙酯;3-(3,4-亚甲基二氧基苯基)-2-甲基丙醛;海藻糖二水合物;瑞鲍迪苷A;N-(2-羟乙基)-2,3-二甲基-2-异丙基丁酰胺;N-(1,1-二甲基-2-羟乙基)-2,2-二乙基丁酰胺;戊二酸二薄荷基酯;反-3-壬烯-1-醇;4-甲酰基-2-甲氧基苯基2-羟基丙酸酯;愈创木酚丁酸酯;愈创木酚异丁酸酯;愈创木酚丙酸酯;5-羟基辛酸乙酯;5-羟基癸酸异亚丙基甘油酯;2-乙基-2-己烯醛;2-己烯酸乙酯;山梨酸丙酯;顺-2-辛烯醇;2-亚己基己醛;反-2-十三碳烯醇;2-苯氧基乙基丙酸酯;4-叔丁基苯基乙酸丙酯;2-苯氧基乙醇;丁酸苯酯;胡椒醛丙二醇缩醛;乙酰丙酸苄酯;4-甲基苄醇;苯乙醛二乙基缩醛;壬酸苄酯;茴香醛丙二醇缩醛;4-甲基苯甲醛丙二醇缩醛;苯乙醛丙二醇缩醛;2-乙基己基苯甲酸酯;2-乙基-3-甲基硫代吡嗪;2-乙氧基-3-异丙基吡嗪;2-乙氧基-3-乙基吡嗪;丁基β-萘基醚;异戊基苯乙基醚;2-乙酰基-4-异丙烯基吡啶;4-乙酰基-2-异丙烯基吡啶;2-乙酰基-4-异丙基吡啶;2-甲氧基吡啶;6-甲氧基喹啉;2-戊基噻唑;2-噻吩基甲醇;2-乙酰基-5-甲基噻吩;4-甲基-3-噻唑啉;3,4-二甲基噻吩;1-(2-噻吩基)乙硫醇;4,5-二甲基-2-异丁基噻唑;甲基环戊烯醇酮丁酸酯;3-(甲基硫代)丙胺;4-甲基-顺-2-戊烯;1-壬烯;1,3,5,7-十一碳四烯;α-乙基-β-甲基-β-苯基缩水甘油酸乙酯;β-苯基缩水甘油酸甲酯;D-8-对薄荷烯-1,2-环氧化物;L-8-对薄荷烯-1,2-环氧化物;2,3-环氧辛醛;2,3-环氧庚醛;2,3-环氧癸醛;羟基(4-羟基-3-甲氧基苯基)乙酸;4-羟基-4-(3-羟基-1-丁烯基)-3,5,5-三甲基-2-环己烯-1-酮;(+/-)-2,6,10,10-四甲基-1-氧杂螺[4,5]癸-2,6-二烯-8-酮;4-(2-亚丁烯基)-3,5,5-三甲基环己-2-烯-1-酮;二香叶基醚;1-(4-羟基-3-甲氧基苯基)癸-3-酮;α-没药醇;2(4)-乙基-4(2),6-二甲基二氢-1,3,5-二噻嗪(异构体的混合物);(2e,6e/Z,8e)-N-(2-甲基丙基)-2,6,8-癸三烯酰胺;4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)酮和4-氨基-5,6-二甲基噻吩并[2,3-D]嘧啶-2(1h)酮盐酸盐;1,1-丙烷二硫醇;Z-5-辛烯基乙酸酯;(E)-4-十一碳烯醛;δ-十六内酯;三叶苷;L-异亮氨酸;1-(2-糠基硫代)-丙酮;(+/-)-4-甲基-2-丙基-1,3-氧硫杂环己烷;N-(2-甲基环己基)-2,3,4,5,6-五氟苯甲酰胺;富含花生四烯酸的油;5-异丙基-2,6-二乙基-2-甲基四氢-2h-吡喃;(1r,2s,5r)-N-(4-甲氧基苯基)-5-甲基-2-(1-甲基乙基)环己烷甲酰胺;八氢-4,8a-二甲基-4a(2h)-萘酚;2-甲基-4,5-二氢呋喃-3-硫醇;(2s,5r)-N-[4-(2-氨基-2-氧代乙基)苯基]-5-甲基-2-(丙-2-基)环己烷甲酰胺;(+/-)-6-辛基四氢-2h-吡喃-

2-酮;(+/-)-2-甲基四氢呋喃-3-硫醇乙酸酯;(+/-)-3-羟基-3-甲基-2,4-壬二酮;1,1-二丙氧基乙烷;菊花提取物;忍冬提取物;Yuzunone;L-甲硫氨酰基甘氨酸;N-环丙基-5-甲基-2-异丙基环己烷甲酰胺;3-戊硫醇;2-乙基-2,5-二氢-4-甲基噻唑;1-(甲基二硫代)-2-丙酮;5-甲基糠基硫醇;4-巯基-3-甲基-2-丁醇;L-乳酸亚铁;邻-反-香豆酸;3-[(4-氨基-2,2-二氧化-1h-2,1,3-苯并噻二嗪-5-基)氧基]-2,2-二甲基-N-丙基丙酰胺;2(3),5-二甲基-6,7-二氢-5h-环戊吡嗪;苯甲酸肉桂基酯;β-萘基甲基醚;迷迭香油树脂;9-癸烯-2-酮;1-(甲基硫代)-3-辛酮;3',7-二羟基-4'-甲氧基黄烷;谷氨酰基-缬氨酰基-甘氨酸;L-苏氨酸;罗汉果浓缩物;L-丙氨酰基-L-谷氨酰胺;蔗糖单棕榈酸酯;2-巯基-2-甲基丙酸乙酯;2-(3,4-二羟苯基)-5,7-二羟基-4-色满酮;N-[N-[3-(3-羟基-4-甲氧基苯基)丙基]-L-α-天冬氨酰基]-L-苯基丙氨酸1-甲基酯一水合物;甜黑莓叶提取物;2-[(2-(对薄荷基氧基)乙氧基]乙醇;琥珀酸;瑞鲍迪苷C;1-(2-羟苯基)-3-(吡啶-4-基)丙-1-酮;1-(2-羟基-4-异丁氧基苯基)-3-(吡啶-2-基)丙-1-酮;1-(2-羟基-4-甲氧基苯基)-3-(吡啶-2-基)丙-1-酮;反-4-叔丁基环己醇;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)咪唑烷-2,4-二酮;3-(1-((3,5-二甲基异噁唑-4-基)甲基)-1h-吡唑-4-基)-1-(3-羟基苄基)-5,5-二甲基咪唑烷-2,4-二酮;三叶草草药馏出物;葡糖基甜菊醇糖苷;Dl-异薄荷醇;O-乙基S-1-甲氧基己-3-基硫代碳酸酯;Cassyrane;1,5-辛二烯-3-醇;(+/-)-2-巯基庚-4-醇;3-(甲基硫代)癸醛;(4z,7z)-十三碳-4,7-二烯醛;越南香菜(Persicaria Odorata)油;Amacha叶提取物;谷氨酰基-2-氨基丁酸;谷氨酰基-正缬氨酰基-甘氨酸;谷氨酰基-正缬氨酸;N1-(2,3-二甲氧基苄基)-N2-(2-(吡啶-2-基)乙基)草酰胺;1-(2-羟基-4-甲基环己基)乙酮;压榨的墨西哥酸橙油;压榨的波斯酸橙油;(+/-)-6-甲氧基-2,6-二甲基庚醛;3,5-十一碳二烯-2-酮;(+/-)-2,5-十一碳二烯-1-醇;三乙基噻啶;4-甲基戊基4-甲基戊酸酯;顺-3-己烯基水杨酸酯;(R)-N-(1-甲氧基-4-甲基戊-2-基)-3,4-二甲基苯甲酰胺;N-乙酰基谷氨酸酯;1,3-丙二醇;花椒(Szechuan Pepper)提取物;假八角(Tasmannia Lanceolata)提取物;欧薄荷(Mentha Longifolia)油;山竹果馏出物;3-(2-羟苯基)丙酸乙酯;1-环丙烷甲基-4-甲氧基苯;硫代异丁酸异戊二烯基酯;硫代异戊酸异戊二烯基酯;(-)-马台树脂醇;甜菊苷;1-(2,4-二羟苯基)-3-(3-羟基-4-甲氧基苯基)丙-1-酮;5-甲酰氧基癸酸乙酯;3-[3-(2-异丙基-5-甲基-环己基)脲基]丁酸乙基酯;2-异丙基-4-甲基-3-噻唑啉;2,6,10-三甲基-9-十一碳烯醛;5-巯基-5-甲基-3-己酮;冷加压的野柠檬(Meyer Lemon)油;Citrus X Meyeri;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 60%;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 80%;(E)-N-[2-(1,3-苯并间二氧杂环戊烯-5-基)乙基]-3-(3,4-二甲氧基苯基)丙-2-烯酰胺;4-氨基-5-(3-(异丙基氨基)-2,2-二甲基-3-氧代丙氧基)-2-甲基喹啉-3-甲酸;3-甲基-5-(2,2,3-三甲基环戊-3-烯-1-基)戊-4-烯-2-醇;(1-甲基-2-(1,2,2-三甲基二环[3.1.0]己-3-基甲基)环丙基)甲醇;Erospicata油,留兰香(Mentha Spicata);皱叶薄荷油,皱叶留兰香(Mentha Spicata Var.Crispa);(+/-)-2-巯基-5-甲基庚-4-酮;石竹-3(4),8-二烯-5-醇;L-半胱氨酸甲基酯盐酸盐;2(3)-己硫醇;1-乙烯基-3-环己烯甲醛与4-乙烯基-1-环己烯甲醛的混合物;(+/-)-4-羟基-6-甲基-2-庚酮;2-辛基-2-十二烯醛;2-己基-2-癸烯醛;反-6-辛烯醛;(E)-3-苯并[1,3]间二氧杂环戊烯-5-基-N,N-二苯基-2-丙烯酰胺;2,6-二甲基-5-庚烯醇;(+/-)-二环[2.2.1]庚-5-烯-2-甲酸,乙基酯;3-(乙酰基硫代)己醛;(+/-)-3-巯基-1-戊醇;(3r,3s)-3-[[(4-氨基-2,2-二氧化-1h-

2,1,3-苯并噻二嗪-5-基)氧基]甲基]-N-环戊基-2-氧代-3-哌啶甲酰胺;(+/-)-1-环己基乙醇;(+/-)-8-甲基癸醛;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷C 30%;(+/-)-柚皮素;2-(((3-(2,3-二甲氧基苯基)-1h-1,2,4-三唑-5-基)硫代)甲基)吡啶;(2r)-3',5-二羟基-4'-甲氧基黄烷酮;葡糖基化的甜叶悬钩子(Rubus suavissimus)提取物,20-30%葡糖基化的甜茶苷糖苷;橄榄果实提取物;(S)-1-(3-(((4-氨基-2,2-二氧化-1h-苯并[C][1,2,6]噻二嗪-5-基)氧基)甲基)哌啶-1-基)-3-甲基丁-1-酮;8-甲基壬醛;蓖麻油酸、亚油酸和油酸的混合物;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷A 22%;甜菊醇糖苷提取物,甜叶菊,瑞鲍迪苷C 22%;乙酸松香芹基酯;N-乙基-5-甲基-2-(1-甲基乙烯基)环己烷甲酰胺;2-(4-甲基苯氧基)-N-(1h-吡唑-3-基)-N-(噻吩-2-基甲基)乙酰胺;乙基-2-(4-羟基-3-甲氧基-苯基)乙酸酯;姜薄荷油(越南薄荷(Mentha X Gracilis));棕榈酰基化的绿茶提取物儿茶素;2-(5-异丙基-2-甲基四氢噻吩-2-基)乙醇;葡糖基化的甜叶悬钩子(Rubus suavissimus)提取物,60%葡糖基化的甜茶苷糖苷;太平洋檀香(Sandalwood Austrocaledonicum)油;以及甘蔗馏出物。

[0340] 在一些实施方案中,可摄取组合物为饮料。在一些实施方案中,饮料选自可乐、柠檬-酸橙味发泡饮料、橙子味发泡饮料、葡萄味发泡饮料、草莓味发泡饮料、菠萝味发泡饮料、姜汁汽水、根汁汽水、水果汁、水果味汁、汁饮料、花蜜、蔬菜汁、蔬菜味汁、运动饮料、能量饮料、增强水饮料、含维生素的增强水、近水饮料、椰子水、茶类饮料、咖啡、可可饮料、含奶成分的饮料、含谷物提取物的饮料和冰沙。在一些实施方案中,饮料为软饮料。

[0341] 在一些实施方案中,可摄取组合物为食品或饮料产品或制剂。食品和饮料产品或制剂的实例包括但不限于:用于汤类,干燥加工食品类,饮料类,即食膳食类,罐装食品或保藏食品类,冻结加工的食品类(Frozen Processed Food category),冷冻加工的食品类(Chilled Processed Food category),零食类,焙烤食品类,糖食类,乳制品类,冰淇淋类,膳食替代品类,意大利面和面条类,以及酱汁、调料、调味品类,婴儿食品类,和/或涂抹酱类中包含的可摄取产品或任何物质的甜包衣、霜状白糖或糖浆。

[0342] 通常,汤类是指罐装/保藏的、脱水的、即用的、冷冻的、UHT和冻结的汤。为了该定义,汤意指由肉、家禽、鱼、蔬菜、谷物、水果和其他成分制备、在可包含这些成分的一部分或全部的可见块的液体中烹饪的食品。其可以是澄清的(作为清汤)或浓厚的(作为杂烩汤)、顺滑的、浓浆的或厚重的、即食的、半浓缩的或浓缩的并且可以是热的或冷的,作为餐中的第一道菜或主菜,或者作为餐间的零食(如饮料一样饮用)。汤可以用作准备其他膳食组成的成分,并且其范围可以为从清汤(consommé)到酱汁(基于奶油或奶酪的汤)。

[0343] 脱水烹饪食品类通常意指:(i)烹饪辅助品,例如:粉末;颗粒;酱;浓缩液体产品,包括浓缩汤,汤以及压缩块、片或粉末或颗粒形式的汤类产品,其分别作为成品或者作为产品内的成分、酱汁以及食谱混合物(无论何种技术)来出售;(ii)膳食溶液产品,例如:脱水和冻结的汤粉,包括脱水汤混合物,脱水速溶汤,脱水即烹调的汤,现成菜品、膳食和单道主菜(包括意大利面、马铃薯和大米菜品)的脱水制品或环境制品;以及(iii)膳食修饰品,例如:调味品,腌泡汁,沙拉调味汁,沙拉浇头,沙司,涂抹酱,糊状混合物,储存稳定的涂抹酱,烧烤酱汁,液体食谱混合物,浓缩物,酱汁或酱汁混合物,包括用于沙拉的食谱混合物,作为成品或者作为产品内的成分出售,为脱水的、液体的或冻结的。

[0344] 饮料类通常意指饮料、饮料混合物和浓缩物,包括但不限于,碳酸和非碳酸饮料,

酒精饮料和非酒精饮料，即可饮用的饮料，用于制备饮料(例如苏打水)的液体浓缩制剂，以及干燥粉末状饮料前体混合物。饮料类还包括酒精饮料，软饮料，运动饮料，等渗饮料以及热饮料。酒精饮料包括但不限于啤酒，苹果酒/梨酒，FAB，红酒以及烈性酒。软饮料包括但不限于碳酸饮料，例如可乐和非可乐碳酸饮料；水果汁，例如果汁、花蜜、汁饮料和水果风味饮料；瓶装水，其包括气泡水、矿泉水和纯净水/餐用水；功能性饮料，其可以是碳酸的或蒸馏的，并且包括运动饮料、能量饮料或药性饮料(elixir drink)；浓缩物，例如即可饮用的液体和粉末浓缩物。热饮料或冷饮料包括但不限于咖啡或冰咖啡，例如新泡的、速溶的和混合的咖啡；茶或冰茶，例如黑茶、绿茶、白茶、乌龙茶和调味茶；以及其他的饮料，包括与奶或水混合的基于调味料、麦芽或植物的粉末，颗粒，块或片。

[0345] 零食类通常是指可以作为少量的非正式膳食的任何食品，包括但不限于甜味和美味零食和小吃棒。零食的实例包括但不限于，水果零食，薯条/薯片，挤压膨化零食，玉米饼/玉米片，爆米花，脆饼干，坚果和其他的甜味和美味零食。小吃棒的实例包括但不限于格拉诺拉麦片/牛奶什锦早餐棒，早餐棒，能量棒，水果棒和其他小吃棒。

[0346] 焙烤食品类通常是指制备过程涉及暴露于加热或过量太阳光的任何可食用品。焙烤品的实例包括但不限于面包、小圆面包、饼干、英格兰松饼、谷类食品、烤箱糕点、糕点、华夫饼、墨西哥玉米圆饼、饼干、馅饼、百吉饼、果馅饼、乳蛋饼、蛋糕、任何焙烤食品以及其任意组合。

[0347] 冰淇淋类通常是指含有奶油和糖以及调味料的冻结的甜点。冰淇淋的实例包括但不限于：即食冰淇淋(impulse ice cream)；带至家中的冰淇淋；冻结的酸奶和手工冰淇淋；基于大豆、燕麦、豆(例如，红豆和绿豆)和大米的冰淇淋。

[0348] 糖食类通常是指味道为甜味的可食用产品。糖食的实例包括但不限于糖果、明胶、巧克力糖食、糖类糖食、胶等，以及任意组合的产品。

[0349] 膳食替代品类通常是指旨在替代正餐的任何食品，特别是针对具有健康问题或健美问题的人。膳食替代品的实例包括但不限于减肥产品和康复期产品。

[0350] 即食膳食类通常是指可以在不进行大量的准备或加工的情况下作为膳食的任何食品。即食膳食包括具有由制造商添加至其中的烹饪“技巧”而得到高准备程度、完成度和便利的产品。即食膳食的实例包括但不限于罐装/保藏的、冻结的、干燥的、冷冻的即食膳食；晚餐混合物；冻结比萨(frozen pizza)；冷冻比萨；以及准备好的沙拉。

[0351] 意大利面和面条包括任何意大利面和/或面条，包括但不限于罐装的、干燥的以及冷冻的/新鲜的意大利面；以及阳春面、速食面、冷冻面、冻结面和泡面。

[0352] 罐装/保藏食品类包括但不限于罐装/保藏的肉和肉产品，鱼/海产食品，蔬菜，番茄，豆，水果，即食膳食，汤，意大利面和其他的罐装/保藏食品。

[0353] 冻结加工的食品类包括但不限于冻结加工的红肉，加工的家禽，加工的鱼/海产食品，加工的蔬菜，肉类替代品，加工的马铃薯，焙烤品，甜点，即食膳食，比萨，汤，面条和其他的冻结食品。

[0354] 干燥加工食品类包括但不限于大米，甜点混合物，干的即食膳食，脱水汤，速溶汤，干的意大利面，阳春面，以及速食面。冷冻加工食品类包括但不限于冷冻加工的肉，加工的鱼/海产食品产品，午餐包，新切的水果，即食膳食，比萨，准备好的沙拉，汤，新鲜的意大利面和面条。

[0355] 酱汁、调味汁和调味品类包括但不限于番茄酱和泥，汤/浓缩汤块，草药和香辛料，谷氨酸单钠(MSG)，餐桌酱汁，基于大豆的酱汁，意大利面酱汁，湿酱汁/烹饪酱汁，干酱汁/粉末混合物，番茄酱，蛋黄酱，芥末，沙拉调味汁，油醋酱，沙司，腌制品以及其他的酱汁、调味汁和调味品。

[0356] 婴儿食品类包括但不限于基于奶或大豆的婴儿食品；以及制备好的、干燥的婴儿食品，以及其他婴儿食品。

[0357] 涂抹酱类包括但不限于果酱和蜜饯，蜜，巧克力涂抹酱，基于坚果的涂抹酱以及基于酵母的涂抹酱。

[0358] 乳制品类通常是指由哺乳动物的奶生产的的可食用品。乳制品的实例包括但不限于饮用乳制品，奶酪，酸奶和酸奶饮料，以及其他的乳制品。

[0359] 用于可摄取组合物，特别是用于食品和饮料产品或制剂的另外的实例如下文所提供。示例性的可摄取组合物包括一种或多种糖食，巧克力糖食，片，countline，袋装的selfline/softline，盒装的品种，标准盒装的品种，捻包的品种，季节巧克力，带有玩具的巧克力，太妃饼干，其他的巧克力糖食，薄荷糖，标准薄荷糖，能量薄荷糖，硬糖果，糖果锭剂，胶，果胶和咀嚼胶，太妃糖，焦糖和牛轧糖，含药物的糖食，棒棒糖，甘草，其他的糖类糖食，面包，包装面包/工业面包，散装面包/手工面包，糕点，蛋糕，包装蛋糕/工业蛋糕，散装蛋糕/手工蛋糕，饼干，涂有巧克力的饼干，夹心饼干，填料饼干，美味饼干和咸饼干，面包替代物，早餐谷类食品，rte谷类食品，家庭早餐谷类食品，麦片，牛奶什锦早餐，其他的谷类食品，儿童早餐谷类食品，热谷类食品，冰淇淋，刺激冰淇淋，单份乳品冰淇淋，单份水冰淇淋，合装包乳品冰淇淋，合装包水冰淇淋，带至家中的冰淇淋，带至家中的乳品冰淇淋，冰淇淋甜点，桶装冰淇淋，带至家中的水冰淇淋，冻酸奶，手工冰淇淋，乳制品，奶，鲜奶/巴氏消毒的奶，全脂的鲜奶/巴氏消毒的奶，半脱脂的鲜奶/巴氏消毒的奶，长保质期处理的奶/超高温处理的奶，全脂的长保质期处理的奶/超高温处理的奶，半脱脂的长保质期处理的奶/超高温处理的奶，脱脂的长保质期处理的奶/超高温处理的奶，山羊奶，浓缩奶/炼乳，原味浓缩奶/炼乳，调味浓缩奶、功能性浓缩奶和其他的浓缩奶，调味的奶饮料，仅为乳制的调味的奶饮料，用水果汁调味的奶饮料，豆奶，酸奶饮料，发酵的乳制饮料，咖啡伴侣，奶粉，调味的奶粉饮料，奶油，奶酪，加工的奶酪，可涂抹加工的奶酪，不可涂抹加工的奶酪，未加工的奶酪，可涂抹的未加工的奶酪，硬奶酪，包装的硬奶酪，散装的硬奶酪，酸奶，原味酸奶/天然酸奶，调味的酸奶，水果调味的酸奶，益生菌酸奶，饮用酸奶，常规饮用酸奶，益生菌饮用酸奶，冷冻的和储存稳定的甜点，基于乳制品的甜点，基于大豆的甜点，冷冻的零食，清爽干酪和奶渣，原味清爽干酪和奶渣，调味的清爽干酪和奶渣，美味的清爽干酪和奶渣，甜味和美味零食，水果零食，薯条/薯片，压出零食，玉米饼/玉米片，爆米花，脆饼干，坚果，其他的甜味和美味零食，小吃棒，格拉诺拉麦片棒，早餐棒，能量棒，水果棒，其他的小吃棒，膳食替代产品，减肥产品，康复期饮料，即食膳食，罐装的即食膳食，冻结的即食膳食，干燥的即食膳食，冷冻的即食膳食，晚餐混合物，冻比萨，冷冻比萨，汤，罐装汤，脱水汤，速溶汤，冷冻汤，热汤，冻结汤，意大利面，罐装意大利面，干意大利面，冷冻的意大利面/新鲜的意大利面，面条，阳春面，速食面，杯装/碗装速食面，袋装速食面，冷冻的面条，泡面，罐装食品，罐装肉和肉产品，罐装鱼/海产食品，罐装蔬菜，罐装番茄，罐装豆，罐装水果，罐装即食膳食，罐装汤，罐装意大利面，其他罐装食品，冻结食品，冻结加工的红肉，冻结加工的家禽，冻结加工的

鱼/海产食品，冻结加工的蔬菜，冻结的肉类替代品，冻结的马铃薯，烤箱焙烤的薯条，其他的烤箱焙烤的马铃薯产品，非烤箱的冻结的马铃薯，冻结的焙烤品，冻结的甜点，冻结的即食膳食，冻结的比萨，冻结的汤，冻结的面条，其他的冻结食品，干制食品，甜点混合物，干制即食膳食，脱水汤，速溶汤，干意大利面，阳春面，速食面，杯装/碗装速食面，袋装速食面，冷冻食品，冷冻加工的肉，冷冻的鱼/海产食品，冷冻加工的鱼，冷冻的经涂料的鱼，冷冻的熏制的鱼，冷冻的午餐包，冷冻的即食膳食，冷冻比萨，冷冻汤，冷冻的新鲜意大利面，冷冻的面条，油和脂肪，橄榄油，蔬菜和种子油，烹饪用脂肪，黄油，人造黄油，可涂抹的油和脂肪，功能性的可涂抹的油和脂肪，酱汁、调味汁和调味品，番茄酱和番茄泥，汤/浓缩汤块，浓缩汤块，肉汁颗粒，液体浓缩汤和汤底，草药和香辛料，发酵的酱汁，基于大豆的酱汁，意大利面酱汁，湿酱汁，干酱汁/粉末混合物，番茄酱，蛋黄酱，常规蛋黄酱，芥末，沙拉调味汁，常规沙拉调味汁，低脂沙拉调味汁，油醋酱，沙司，腌制品，其他酱汁、调味汁和调味品，婴儿食品，奶类婴儿食品，标准奶类婴儿食品，第二阶段奶类婴儿食品，幼童奶类婴儿食品，低过敏源的奶类婴儿食品，准备好的婴儿食品，干制婴儿食品，其他的婴儿食品，涂抹酱，果酱和蜜饯，蜜，巧克力涂抹酱，基于坚果的涂抹酱，以及基于酵母的涂抹酱。示例性的可摄取组合物还包括糖食，焙烤品，冰淇淋，乳制品，甜味和美味零食，小吃棒，膳食替代产品，即食膳食，汤，意大利面，面条，罐装食品，冻结的食品，干制食品，冷冻食品，油和脂肪，婴儿食品或涂抹酱，或其混合物。示例性的可摄取组合物还包括早餐谷类食品，甜味饮料或者用于制备饮料的固体或液体浓缩组合物(理想地以便能够降低之前已知的糖类甜味剂或人造甜味剂的浓度)。

[0360] 一些实施方案提供了包含约1％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约1.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约2％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约2.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约3％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约3.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约4％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约4.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约5.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约6％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约6.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约7％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约7.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约8％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约8.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约9％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约9.5％(w/w)的式(I)的化合物的食品或饮料产品。一些实施方案提供了包含约10％(w/w)的式(I)的化合物的食品或饮料产品。

[0361] 一些实施方案提供了可以旨在或不旨在吞咽的可咀嚼组合物。在一些实施方案中，可咀嚼组合物可以为单独或组合地包含本文所公开和所述化合物的胶、口香糖、糖化的胶、无糖胶，功能性胶、泡泡糖。

[0362] 一些实施方案提供了单独或结合地包含本文所述公开和所述化合物的增补品，营养品，功能性食品(例如，声称具有超出了供应营养物的基本营养功能的健康促进和/或疾病预防性质的任何新鲜的或加工的食品)，药物产品，非处方(OTC)产品，口腔护理产品，化妆品(例如甜化的润唇膏)，以及其他的个人护理产品。本文描述的甜味剂或甜味剂增强剂可以用于为任何这些产品提供甜味。例如，在一些实施方案中，本文描述的化合物作为赋形剂包含在药物产品中以掩蔽药物产品的苦味，并且使其更加可口以便摄取。在一些实施方案中，本文描述的化合物包含在用于摄取的液体药物或OTC产品形式中。在一些实施方案中，本文描述的化合物包含在用于摄取的固体药物或OTC产品形式中。例如，化合物可以包含在片剂上的包衣、胶囊或其他典型的药物形式中。

[0363] 通常，非处方(OTC)产品和口腔护理产品通常是指用于家庭和/或个人用途的可以无需处方和/或无需拜访医疗专业人员进行销售的产品。OTC产品的实例包括但不限于镇痛药；咳嗽、感冒和过敏救治药；抗组胺药和/或过敏救治药；以及其组合。咳嗽、感冒和过敏救治药包括但不限于减充血剂，咳嗽救治药，咽部制剂，含药物的糖食，抗组胺药以及针对儿童的咳嗽、感冒和过敏救治药物；以及组合产品。抗组胺药和/或过敏救治药包括但不限于用于枯草热、鼻过敏、昆虫咬伤和蜇伤的任何系统性治疗。在一些实施方案中，OTC产品是恶心缓解组合物、抗酸剂、或胃灼热缓解组合物。

[0364] 口腔卫生产品的实例包括但不限于口腔清洁条，牙膏，牙刷，漱口水/牙冲洗液，假牙护理品，口腔清新剂，口气清新喷雾，口气清新滴液，口气清新浓缩物，口香糖，口腔保湿剂，家用牙齿增白剂以及牙线。

[0365] 一些实施方案提供了增强可摄取组合物的甜味的方法，包括将至少一种本文描述的化合物与尚未包含所述化合物的可摄取组合物结合。

[0366] 浓缩物

[0367] 在一些实施方案中，本文公开并且描述的化合物可以单独或结合地以增味浓缩物制剂来提供，所述增味浓缩物制剂例如适于后续的加工以产生即用的(ready-to-use)(即，即用的(ready-to-serve))产品。关于“增味浓缩物制剂”，其意指应当与一种或多种稀释介质(即，“稀释剂”)重构以成为即用组合物的制剂。术语“即用组合物”在本文中可与“可摄取组合物”可交换使用。在一个实施方案中，即用组合物包括可以直接被人或动物消耗的组合物。增味浓缩物制剂通常通过以下来使用：与一种或多种稀释介质(例如，任何可消耗或可摄取的成分或产品)混合或者由所述一种或多种稀释介质稀释，以便对所述稀释介质赋予一种或多种风味或者改变所述稀释介质的一种或多种味道。这种使用过程通常被称为重构。重构可以在家庭环境或工业环境中进行。例如，冻结的水果汁浓缩物可以由消费者在厨房中与水或其他水性介质重构，以得到即用的水果汁饮料。在另一个实例中，软饮料糖浆浓缩物可以由制造商以大的工业规模与水或其他水性介质重构，以产生即用的软饮料。适合的稀释剂包括但不限于水，碳酸水，注入氮的水，或者具有前述物质作为溶剂的溶液。浓缩物制剂可以用于各种食品、饮料和医药生产技术。例如，浓缩物可以作为食品或饮料制造过程的一部分配料至组合物中。在一些实施方案中，将浓缩物配料至中间组合物中，对该中间组合物添加另外的成分和/或进行另外的加工，然后产生最终的食品或饮料产品。由于增味浓缩物制剂具有比即用组合物更高浓度的增味剂或风味改性剂，增味浓缩物制剂通常不适于在未经重构的情况下直接消耗。使用和产生增味浓缩物制剂具有许多的益处。例如，一个

益处是减小运输的重量和体积,因为增味浓缩物制剂可以在使用时通过添加适合的溶剂、固体或液体来重构。

[0368] 在一个实施方案中,增味浓缩物制剂包含i)单独的或组合的本文公开并且描述的化合物;ii)载体;以及iii)任选的至少一种佐剂。术语“载体”表示通常是非活性的附属物质,例如溶剂、粘合剂或其他惰性介质,其与本文的化合物以及一种或多种任选的佐剂结合使用以形成制剂。例如,水或淀粉可以是用于增味浓缩物制剂的载体。在一些实施方案中,载体与用于重构增味浓缩物制剂的稀释介质相同;并且在其他的实施方案中,载体与稀释介质不同。本文使用的术语“载体”包括但不限于可摄取接受的载体。

[0369] 适用于浓缩物制剂的载体包括但不限于淀粉(例如,食品淀粉),麦芽糖糊精,胶,液体载体和包封剂。液体载体的非限制性实例包括水,乙醇,丙二醇,三醋酸甘油酯,Neobee和甘油。淀粉的非限制性实例包括改性玉米淀粉。胶的非限制性实例包括Aragic胶(Acadia胶)和黄原胶。其他适合的用于浓缩物制剂的固体载体包括右旋糖、二氧化硅、碳酸镁和磷酸三钙。

[0370] 术语“佐剂”表示补充、稳定、保持或增强活性成分(例如本发明的化合物)的预期功能或效果的添加剂。在一个实施方案中,至少一种佐剂包含一种或多种增味剂。增味剂可以是本领域技术人员或消费者已知的任何风味,例如巧克力、咖啡、茶、穆哈咖啡、法国香草、花生酱、印度奶茶或其组合的风味。在另一个实施方案中,至少一种佐剂包含一种或多种甜味剂。一种或多种甜味剂可以是本申请描述的任何甜味剂。在另一个实施方案中,至少一种佐剂包含一种或多种选自以下的成分:乳化剂、稳定剂、抗微生物防腐剂、抗氧化剂、维生素、矿物质、脂肪、淀粉、蛋白质浓缩物和分离物、盐及其组合。乳化剂、稳定剂、抗微生物防腐剂、抗氧化剂、维生素、矿物质、脂肪、淀粉、蛋白质浓缩物和分离物以及盐的实例描述于美国专利第6,468,576号中,其内容为了所有目的通过引用整体并入本文。稳定剂的非限制性实例包括果胶、黄原胶、CMC(羧甲基纤维素)、聚山梨醇酯60、聚山梨醇酯80、中链甘油三酯、纤维素凝胶、纤维素胶、酪蛋白酸钠、改性食品淀粉、阿拉伯胶(Gum Arabic/Gum Acacia)和角叉菜胶。

[0371] 在一个实施方案中,本申请的增味浓缩物制剂可以为选自以下的形式:液体,包括溶液和悬浮液;固体;泡沫材料;糊状物;凝胶;乳膏及其组合,例如含有一定量的固体内含物的液体。在一个实施方案中,增味浓缩物制剂是液体的形式,包括水基和非水基的液体。在一些实施方案中,本申请的增味浓缩物制剂可以是碳酸的或非碳酸的。在一些实施方案中,组合物为固体。在一些实施方案中,固体为粉末。

[0372] 可以通过任何适合的技术来制备固体浓缩物制剂,所述技术包括但不限于将固体产品组合物(例如上文描述的)与固体载体和任何另外的成分结合。适合的结合技术包括干法或湿法混合、喷雾涂覆、喷雾干燥等。

[0373] 可以通过任何适合的技术来制备液体浓缩物制剂,所述技术包括但不限于将固体产品组合物(例如上文描述的)和任何另外的成分溶于或悬浮于液体载体中。其他适合的技术包括将液体产品组合物(例如上文描述的)与液体载体和任何另外的成分混合。

[0374] 增味浓缩物制剂还可以包含冰点降低剂、成核剂或两者作为至少一种佐剂。冰点降低剂是可摄取接受的化合物或试剂,其可以降低添加了该化合物或试剂的液体或溶剂的冰点。即,含有冰点降低剂的液体或溶液具有比不含冰点降低剂的该液体或溶剂更低的冰

点。除了降低触发冰点之外，冰点降低剂还可以降低增味浓缩物制剂的水活性。冰点降低剂的实例包括但不限于糖类、油、乙醇、多元醇(例如，甘油)及其组合。成核剂表示能够促进成核的可摄取接受的化合物或试剂。增味浓缩物制剂中存在成核剂可以通过增加期望的冰结晶中心的数量来改善冻结浆状物的冻结膏(frozen Blushes)的口感，并且帮助保持浆状物在冻结温度下的物理性质和性能。成核剂的实例包括但不限于硅酸钙、碳酸钙、二氧化钛及其组合。

[0375] 在一个实施方案中，增味浓缩物制剂被配制为具有低的水活性，以便有延长的保存期限。水活性是水在制剂中的蒸气压力与纯水在相同温度下的蒸气压力的比。在一个实施方案中，增味浓缩物制剂具有小于约0.85的水活性。在另一个实施方案中，增味浓缩物制剂具有小于约0.80的水活性。在另一个实施方案中，增味浓缩物制剂具有小于约0.75的水活性。

[0376] 在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少2倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少5倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少10倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少15倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少20倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少30倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少40倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少50倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的至少60倍。在一个实施方案中，增味浓缩物制剂含有的本申请化合物的浓度是即用组合物中的该化合物浓度的多至100倍。

[0377] 在一些实施方案中，增味浓缩物制剂包含约0.1重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，增味浓缩物制剂包含约1重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，增味浓缩物制剂包含约5重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，增味浓缩物制剂包含约10重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，增味浓缩物制剂包含约50重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，增味浓缩物制剂包含约75重量％至约95重量％的浓度的本文所述化合物。在一些实施方案中，化合物以约1重量％至约10重量％的量存在于增味浓缩物制剂中。在一些实施方案中，化合物以约1重量％至约20重量％的量存在于增味浓缩物制剂中。在一些实施方案中，化合物以约5重量％至约10重量％的量存在于增味浓缩物制剂中。在一些实施方案中，化合物以约5重量％至约20重量％的量存在于增味浓缩物制剂中。在一些实施方案中，化合物以约5重量％至约50重量％的量存在于增味浓缩物制剂中。

[0378] 在一些实施方案中，化合物以大于约0.1重量％、0.5重量％、1重量％、2重量％、5重量％、10重量％、20重量％、30重量％、50重量％、75重量％、90重量％或95重量％的量存在于增味浓缩物制剂中。

[0379] 在一些实施方案中，增味浓缩物制剂具有小于或等于7的pH。在一些实施方案中，增味浓缩物制剂具有小于7的pH。在一些实施方案中，组合物具有大于或等于7的pH。在一些实施方案中，增味浓缩物制剂具有大于7的pH。在一些实施方案中，增味浓缩物制剂具有6至10、6至9、6至8、6至7、1至7、1至6、1至5、1至4、1至3或1至2的pH。在一些实施方案中，增味浓缩物制剂具有约1、约1.5、约2、约2.5、约3、约3.5、约4、约4.5、约5、约5.5、约6、约6.5或约7的pH。一些实施方案提供了制备可摄取组合物的方法，包括重构或以其他方式稀释增味浓缩物制剂以形成可摄取组合物。在一些实施方案中，重构或稀释包括将增味浓缩物制剂与一种或多种可摄取接受的成分结合。制备食品或饮料产品的一些方法包括将第一组多种可摄取接受的成分结合以形成中间体混合物，然后将一定剂量的上文描述的浓缩物分配至中间体混合物中。一些实施方案还包括添加一种或多种可摄取接受的成分。通常，各种成分和浓缩物可以以任何适合的顺序和技术来结合。

[0380] 餐桌甜味剂

[0381] 一些实施方案包括可添加至食品或饮料产品以增强其甜味的餐桌甜味剂。因此，一些实施方案在即用的甜味剂组合物中包括式(I)的化合物，并且特别是本文描述的化合物1至35中的一种或多种。在一些实施方案中，组合物包含填充剂或稀释剂以稀释组合物中的化合物的浓度。在一些实施方案中，填充剂选自以下中的一种或多种：麦芽糖糊精，右旋-麦芽糖糊精混合物，玉米糖浆固体，蔗糖，果糖，葡萄糖，转化糖，山梨糖醇，木糖，核酮糖，甘露糖，甘露糖醇，半乳糖醇，乳糖醇，异麦芽糖醇，麦芽糖，塔格糖，乳糖，菊粉，甘油，丙二醇，聚右旋糖，低聚果糖，纤维素，纤维素衍生物，赤藓糖醇及其组合。在一些实施方案中，填充剂为淀粉。在一些实施方案中，填充剂为胶。在一些实施方案中，填充剂选自阿拉伯胶(Gum Arabic/Gum Acacia)，麦芽糖糊精，改性玉米淀粉，右旋糖，二氧化硅，碳酸镁和磷酸三钙及其组合。

[0382] 在一些实施方案中，本文描述的化合物和填充剂在餐桌甜味剂组合物中均为固体颗粒形式。在一些此类实施方案中，化合物和填充剂的颗粒与组合物中的任何其他成分均匀地混合在一起，使得化合物以稀释的浓度存在。化合物和填充剂的颗粒可以通过任何适合的方式形成，包括研磨、碾磨、喷雾干燥、喷雾团聚、流化床团聚以及湿法或干法粒化，其可以对各个试剂分别进行，或者同时进行。在其他实施方案中，将本文描述的化合物涂覆至填充剂的固体颗粒的表面。在一些此类实施方案中，使用任何适合的技术将化合物涂覆至填充剂的颗粒的表面，所述适合的技术包括将化合物的溶液在填充剂颗粒上喷雾干燥。在其他实施方案中，颗粒组合物中的各个颗粒包含化合物和均匀混合的填充剂。例如，颗粒可以由包含本文描述的化合物和填充剂的溶液来形成。

[0383] 在各种实施方案中，组合物中的颗粒的平均粒径为200μm至2mm、200μm至500μm、500μm至700μm或者800μm至1.5mm。

[0384] 在其他实施方案中，餐桌甜味剂可以为片剂、块或丸剂的形式，其可以使用模具、压缩固体颗粒或者任何其他适合的方式来形成。在其他实施方案中，餐桌甜味剂为液体形式，例如悬浮液、溶液或糖浆。

[0385] 在各种实施方案中，本文描述的化合物与填充剂的重量比为1:1000至1:1、1:800至1:2、1:500至1:10、1:400至1:15、1:300至1:20、1:200至1:30、1:175至1:50、1:150至1:75、1:125至1:80、和1:110至1:90。在各种实施方案中，组合物中的本文描述的化合物的重

量百分比为大于300ppm、大于500ppm、大于800ppm、大于0.1％、大于0.2％、0.5％、大于1％、大于2％、大于3％和大于5％。在各种实施方案中，组合物中的本文描述的化合物的重量百分比为500ppm至5％、800ppm至3％、0.1％至3％、0.5％至3％、或者0.5％至2％。

[0386] 在各种实施方案中，组合物中的填充剂的重量百分比为大于30％、大于40％、大于50％、大于60％、大于70％、大于80％、大于90％、大于95％、大于98％、大于99％、或大于99.5％。在各种实施方案中，组合物中的填充剂的重量百分比为20％至99％、20％至95％、30％至95％、40％至95％、50％至90％、60％至80％、50％至80％、5％至50％、5％至30％、10％至40％、或者10％至30％。

[0387] 在一些实施方案中，餐桌甜味剂另外包含抗结块剂。适合的抗结块剂包括但不限于塔塔粉、磷酸三钙、粉末状纤维素(包括微晶纤维素)、硬脂酸镁、碳酸氢钠、亚铁氰化钠、亚铁氰化钾、亚铁氰化钙、硅酸钠、二氧化硅、硅酸钙、三硅酸镁、滑石粉、铝硅酸钠、硅酸铝钾、铝硅酸钙、膨润土、硅酸铝、硬脂酸、聚二甲基硅氧烷。

[0388] 在一些实施方案中，餐桌甜味剂包含在份量控制的包或袋中。在一些实施方案中，包或袋设计用于单次使用。包或袋可以为任何适合的形状或尺寸。各种实施方案包括宽为0.2英寸至2英寸或者宽为0.5英寸至1英寸并且长为1英寸至5英寸或者长为1.5英寸至3英寸的包或袋。在各种实施方案中，包或袋含有0.5g至3g或者0.75g至1.5g的餐桌甜味剂组合物。

[0389] 用于制备粉末或颗粒状餐桌甜味剂组合物的一个实施方案包括流化床团聚过程。在促进聚集物形成的湿度和温度条件下，将精细分离的溶液颗粒喷洒在颗粒的流化床上。所述溶液包含甜味剂化合物和粘合剂。可以修改喷雾速率以控制平均粒径。在颗粒的喷雾之后，使颗粒干燥，并且可以任选地进行筛选以控制粒径分布。

[0390] 在用于制备粉末或颗粒状餐桌甜味剂组合物的另一个方法中，包括将至少一种甜味剂、填充剂和/或抗结块剂与水性溶液结合，以形成完全混合的水性悬浮液。将悬浮液在真空下加热至约50℃至90℃，以去除水，同时避免材料降解。最终，将混合物研磨至期望的粒径。

[0391] 风味改性化合物和组合物

[0392] 在一些实施方案中，本文公开并且描述的化合物可以用作风味改性化合物(例如，作为甜味增强化合物)。一些此类实施方案包括还包含一种或多种甜味剂并结合一种或多种风味改性化合物的组合物。在一些实施方案中，组合物用于可摄取或不可摄取的产品，例如上文讨论的组合物、产品和浓缩物。

[0393] 在一些实施方案中，组合物可以用于调节化学感觉受体和/或其配体，包括调节化学感觉受体的活性、结构、功能、表达和/或修饰，以及对与化学感觉受体有关的病况(例如生理学或病理学病况)进行调节、治疗或预防措施。通常，与化学感觉受体有关的生理学或病理学病况包括与化学感觉受体和/或其配体有关的病况、疾病或病症，例如，胃肠病症、代谢病症、功能性胃肠病症等。在一些实施方案中，组合物提高或增强甜味。在一些实施方案中，组合物调节在体内除味蕾外的位置(例如内脏)表达的甜味受体和/或其配体。在一些实施方案中，组合物可以通过使可摄取产品与本申请的一种或多种组合物接触以形成改性组合物来提高或增强可摄取产品的甜味。在一些实施方案中，组合物可以通过使可摄取产品与本申请的一种或多种组合物混合以形成改性组合物来提高或增强可摄取产品的甜味。在

一些实施方案中，组合物可以调节在体内除味蕾外处表达的甜味受体和/或其配体。

[0394] 在一些实施方案中，本申请的组合物具有体外和/或体内的蔗糖改性行为和/或甜味激动剂行为(例如，如感觉研究中所示)。在一些实施方案中，本申请的组合物在体内显示出良好的副味性质。

[0395] 无论组合物是否表现出甜味，可以通过任何适合的测试方法来测定改性/激动剂效应。例如，可以在使用人品尝小组的感觉测试中评估包含一种或多种甜味剂并结合风味改性化合物的组合物。

[0396] 在一些实施方案中，可以在测试之前稀释组合物。在一些实施方案中，组合物在测试之前稀释约2倍、约5倍、约10倍、约50倍、约100倍、约200倍、约300倍、约400倍、约500倍、约1000倍或更多倍。

[0397] 可以在存在和/或不存在添加剂的情况下进行测试。在一些实施方案中，对组合物进行测试以评估对一种或多种添加剂的甜味增强。在所述测试中，参与者可以提供他们对甜味剂组合物(含有和/或不含添加剂)的特性与那些含糖物质的相似性的印象。适用于测定组合物是否具有更加类似于糖的味道的程序是通过使用测量组合物甜味的一组评估。

[0398] 一些实施方案提供了可摄取产品，其含有足够量的一种或多种甜味增强剂以显著增强可摄取产品的甜味。在一些实施方案中，可摄取产品是食品或饮料产品。

[0399] 一些实施方案提供了增强可摄取产品的甜味的方法，包括使可摄取产品与包含一种或多种甜味增强剂和一种或多种甜味剂的组合物接触。一些实施方案提供了增强可摄取产品的甜味的方法，包括使可摄取产品与包含一种或多种甜味增强剂和一种或多种甜味剂的组合物混合。在一些实施方案中，一种或多种甜味剂如本文所描述。在一些实施方案中，一种或多种甜味剂选自一种或多种式(I)的化合物。在一些实施方案中，一种或多种甜味剂为上文描述的甜味剂。在一些实施方案中，一种或多种甜味剂增强剂是本文公开并且描述的化合物(即，式(I)的化合物)。

[0400] 在一些实施方案中，式(I)的化合物是化合物1至35之一。

[0401] 一些实施方案提供了增强甜味剂的甜味的方法，包括使一种或多种式(I)的化合物或者包含一种或多种式(I)的化合物的组合物与甜味剂结合。在一些实施方案中，式(I)的化合物是化合物1至35之一。

[0402] 在一些实施方案中，甜味剂可以是：常规的糖类甜味剂，例如，蔗糖，果糖，葡萄糖，以及包含天然糖的甜味剂组合物，例如玉米糖浆(包括高果糖玉米糖浆)或者来源于天然水果和蔬菜来源的其他糖浆或甜味剂浓缩物；稀有天然糖，包括D-阿洛糖，D-阿洛酮糖，L-核糖，D-塔格糖，L-葡萄糖，L-岩藻糖，L-阿拉伯糖，D-松二糖和D-明串珠菌二糖；半合成的“糖醇”甜味剂，例如赤藓糖醇，异麦芽糖醇，乳糖醇，甘露糖醇，山梨糖醇，木糖醇，麦芽糖糊精等；以及人造甜味剂，例如阿斯巴甜，糖精，乙酰舒泛-K，环己氨磺酸盐，三氯蔗糖和阿力甜。在一些实施方案中，甜味剂可以选自环己氨磺酸，罗汉果苷，塔格糖，麦芽糖，半乳糖，甘露糖，蔗糖，果糖，乳糖，纽甜和其他的阿斯巴甜衍生物，葡萄糖，D-色氨酸，甘氨酸，麦芽糖醇，乳糖醇，异麦芽糖醇，氢化葡萄糖糖浆(HGS)，氢化淀粉水解产物(HSH)，甜菊苷，瑞鲍迪苷A和其他的基于甜叶菊的糖苷，carrelame和其他的基于胍的甜味剂。

[0403] 在一些实施方案中，式(I)的化合物和甜味剂以约1:100,000至100,000:1的比例或者其间的任何比例存在。在一些实施方案中，式(I)的化合物和甜味剂以约1:90,000、约

1:80,000、约1:70,000、约1:60,000、约1:50,000、约1:40,000、约1:30,000、约1:20,000、约1:10,000、1:9,000、约1:8,000、约1:7,000、约1:6,000、约1:5,000、约1:4,000、约1:3,000、约1:2,000、约1:1,000、约1:900、约1:800、约1:700、约1:600、约1:500、约1:450、约1:400、约1:350、约1:300、约1:250、约1:200、约1:150、约1:100、约1:90、约1:85、约1:80、约1:75、约1:70、约1:65、约1:60、约1:55、约1:50、约1:45、约1:40、约1:35、约1:30、约1:25、约1:20、约1:19、约1:18、约1:17、约1:16、约1:15、约1:14、约1:13、约1:12、约1:11、约1:10、约1:9、约1:8、约1:7、约1:6、约1:5、约1:4、约1:3、约1:2、约1:1、约2:1、约3:1、约4:1、约5:1、约6:1、约7:1、约8:1、约9:1、约10:1、约11:1、约12:1、约13:1、约14:1、约15:1、约16:1、约17:1、约18:1、约19:1、约20:1、约25:1、约30:1、约35:1、约40:1、约45:1、约50:1、约55:1、约60:1、约65:1、约70:1、约75:1、约80:1、约85:1、约90:1、约95:1、约100:1、约150:1、约200:1、约250:1、约300:1、约350:1、约400:1、约450:1、约500:1、约600:1、约700:1、约800:1、约900:1、约1,000:1、约1,000:1、约2,000:1、约3,000:1、约4,000:1、约5,000:1、约6,000:1、约7,000:1、约8000:1、约9,000:1、约10,000:1、约20,000:1、约30,000:1、约40,000:1、约50,000:1、约60,000:1、约70,000:1、约80,000:1、约90,000:1、约100,000:1的比例、或其间的任何比例存在。

[0404] 在一些实施方案中，甜味剂可以是两种或更多种本文公开的甜味剂的组合。在一些实施方案中，甜味剂可以是两种、三种、四种或五种本文公开的甜味剂的组合。在一些实施方案中，甜味剂可以是糖。在一些实施方案中，甜味剂可以是一种或多种糖与其他的天然和人造甜味剂的组合。在一些实施方案中，甜味剂是糖。在一些实施方案中，糖是甘蔗糖。在一些实施方案中，糖是甜菜糖。在一些实施方案中，糖可以是蔗糖，果糖，葡萄糖或其组合(例如，高果糖玉米糖浆)。在一些实施方案中，糖可以是蔗糖。在一些实施方案中，糖可以是果糖与葡萄糖的组合。在一些实施方案中，糖可以是约55％的果糖与约42％的葡萄糖的组合。在一些实施方案中，糖可以是约42％的果糖与约53％的葡萄糖的组合。在一些实施方案中，糖可以是约90％的果糖与约10％的葡萄糖的组合。在一些实施方案中，甜味剂可以是稀有糖。在一些实施方案中，稀有糖选自D-阿洛糖，D-阿洛酮糖，L-核糖，D-塔格糖，L-葡萄糖，L-岩藻糖，L-阿拉伯糖，D-松二糖，D-明串珠菌二糖及其组合。在一些实施方案中，稀有糖是D-阿洛酮糖。在一些实施方案中，稀有糖是D-塔格糖。在一些实施方案中，甜味剂是人造甜味剂。在一些实施方案中，人造甜味剂可以是三氯蔗糖。

[0405] 在一些实施方案中，本文公开和描述的化合物可以单独或结合地以其配体增强浓度(例如，数量级为若干ppm的非常低的浓度)结合一种或多种已知的甜味剂(天然的或人造的)使用，以便降低制备具有期望甜度的可摄取组合物所需的已知甜味剂的浓度。

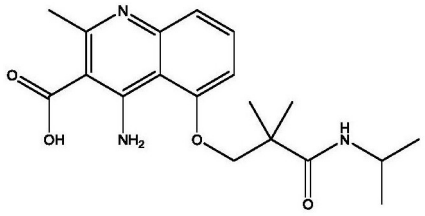
[0406] 在一些实施方案中，本文公开和描述的化合物可以单独或结合地在大范围的pH下增强甜味剂的甜味，例如，从较低的pH到中性的pH。较低和中性的pH包括但不限于约1.5至约8.5；约3.0至约8.0；约3.5至约7.5；以及约4.0至约7的pH。在某些实施方案中，本文公开和描述的化合物可以单独或结合地在低至中性pH值下以约50μM、40μM、30μM、20μM或10μM的化合物浓度的味道测试中增强固定浓度的甜味剂的感知甜味。在某些实施方案中，较低pH值下的单独或结合的本文公开和描述的化合物的增强因子基本类似于中性pH下的所述化合物的增强因子。这种在大范围的pH下一致的甜味增强性质允许本文公开和描述的化合物单独或结合地在很多种食品和饮料中有广泛的用途。在一些实施方案中，甜味剂可以是常

规的糖类甜味剂，例如，蔗糖，果糖，葡萄糖，以及包含天然糖的甜味剂组合物，例如玉米糖浆(包括高果糖玉米糖浆)或者来源于天然水果和蔬菜来源的其他糖浆或甜味剂浓缩物；稀有天然糖，包括D-阿洛糖，D-阿洛酮糖，L-核糖，D-塔格糖，L-葡萄糖，L-岩藻糖，L-阿拉伯糖，D-松二糖和D-明串珠菌二糖；半合成“糖醇”甜味剂，例如赤藓糖醇，异麦芽糖醇，乳糖醇，甘露糖醇，山梨糖醇，木糖醇，麦芽糖糊精等；以及人造甜味剂，例如阿斯巴甜，糖精，乙酰舒泛-K，环己氨磺酸盐，三氯蔗糖和阿力甜。在一些实施方案中，甜味剂可以选自环己氨磺酸，罗汉果苷，塔格糖，麦芽糖，半乳糖，甘露糖，蔗糖，果糖，乳糖，纽甜和其他的阿斯巴甜衍生物，葡萄糖，D-色氨酸，甘氨酸，麦芽糖醇，乳糖醇，异麦芽糖醇，氢化葡萄糖糖浆(HGS)，氢化淀粉水解产物(HSH)，甜菊苷，瑞鲍迪苷A和其他的基于甜叶菊的糖苷，carrelame和其他的基于胍的甜味剂。在一些实施方案中，甜味剂可以是两种或更多种本文公开的甜味剂的组合。

[0407] 在一些实施方案中，式I的化合物(例如，化合物1至35中的一种或多种)结合风味增强剂(例如，甜味增强剂)和任选的一种或多种另外的甜味剂(例如上文描述的甜味剂)用作甜味剂。

[0408] 在一些实施方案中，甜味增强剂选自PCT申请公开WO2016/073251；WO2008/154221；WO2005/015158；WO2005/041684；WO2006/084186；WO2006/138512；WO2007/124152；WO2009/100333；WO2009/111447；WO2010/014666；WO2010/014813；WO2011/123693；WO2012/021837；WO2012/061698；WO2013/025560；WO2014/130582；WO2014/025706；以及WO2014/130513中公开的一种或多种化合物，各个上述申请通过引用整体并入本文，包括任何附图。

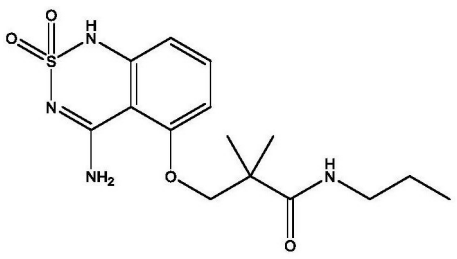
[0409] 在一些实施方案中，甜味增强剂为由式A限定的化合物：

[0410] 

(A)

[0411] 或其盐或溶剂化物。

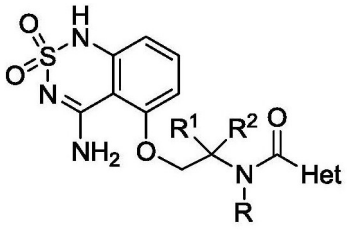
[0412] 在一些实施方案中，甜味增强剂为由式B限定的化合物：

[0413] 

(B)

[0414] 或其盐或溶剂化物。

[0415] 在一些实施方案中，甜味增强剂为由式C限定的化合物：

[0416]  或其互变异构体或盐，

(C)，

[0417] 其中，R^1和R^2独立地为C_1至C_4烷基；或者，R^1和R^2连同它们连接的碳原子一起形成C_3至C_7环烷基；R为氢或C_1至C_6烷基；并且Het为杂芳基或取代的杂芳基。

[0418] 在式(C)的一个实施方案中，R为氢。

[0419] 在式(C)的一个实施方案中，R^1和R^2均为甲基、乙基或丙基。即，R^1和R^2相同，并且为甲基、乙基或丙基。

[0420] 在式(C)的一个实施方案中，其中R^1和R^2连同它们连接的碳原子一起形成环丙基、环丁基、环戊基或环己基。

[0421] 在式(C)的一个实施方案中，其中Het为任选取代的含有一个或多个选自N、O和S的杂原子的单环五元或六元杂芳基。关于“任选取代”，其意指所述单环五元或六元杂芳基可以是未取代的或取代的。

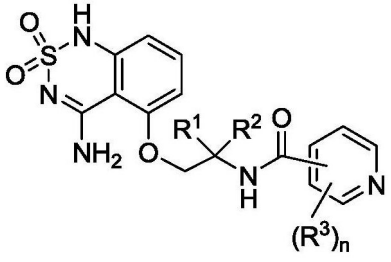
[0422] 在式(C)的一个实施方案中，其中Het选自吡啶、取代的吡啶、嘧啶、取代的嘧啶、吡嗪、取代的吡嗪、哒嗪、取代的哒嗪、三嗪和取代的三嗪。

[0423] 在式(C)的一个实施方案中，其中Het为任选取代的含有一个或多个选自N、O和S的杂原子的二环八元至十二元杂芳基。关于在本文中的“任选取代”，其意指所述二环八元至十二元杂芳基可以是未取代的或取代的。

[0424] 在式(C)的一个实施方案，其中Het为四唑并吡啶，例如，四唑并[1,5-a]吡啶；三唑并吡啶，例如，[1,2,4]三唑并[4,3-a]吡啶；嘌呤，例如，9H-嘌呤；吡唑并吡啶，例如，1H-吡唑并[3,4-b]吡啶；喹啉，异喹啉，异噁唑并吡啶，例如，异噁唑并[5,4-b]吡啶；或者喹啉酮，例如，喹啉-2(1H)-酮；其各自被任选地取代。关于在本文中的“任选地取代”，其意指Het可以是未取代的或取代的。

[0425] 在式(C)的一个实施方案中，Het是未取代的，或者被一个、两个、三个或四个取代基取代，所述取代基独立地选自卤素、氰基、羟基、N-氧化物、胺、取代的胺、烷氧基、取代的烷氧基、芳氧基、取代的芳氧基、酰基、磺酰胺、酯、烷基、取代的烷基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、碳环基、取代的碳环基、杂环基和取代的杂环基；或者，取代基中的两个连同它们键合的Het的环原子一起形成碳环基或杂环基。

[0426] 在一些实施方案中，甜味增强剂为由式D限定的化合物：

[0427]  或其互变异构体或盐，

(D)，

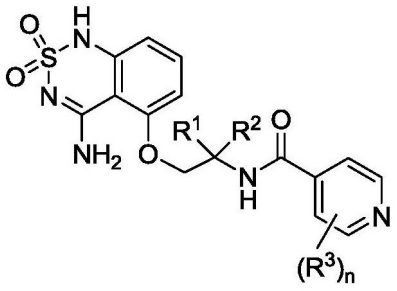
[0428] 其中，R^1和R^2独立地为C1至C4烷基；或者，R^1和R^2连同它们连接的碳原子一起形成

C3至C7环烷基;n为0、1、2或3;并且R^3为卤素、氰基、羟基、胺、取代的胺、烷氧基、取代的烷氧基、芳氧基、取代的芳氧基、酰基、磺酰胺、酯、烷基、取代的烷基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、碳环基、取代的碳环基、杂环基或取代的杂环基。

[0429] 在式(D)的一个实施方案中,R^1和R^2均为甲基、乙基或丙基。即,R^1和R^2相同,并且为甲基、乙基或丙基。

[0430] 在式(D)的一个实施方案中,R^1和R^2连同它们连接的碳原子一起形成环丙基、环丁基、环戊基或环己基。

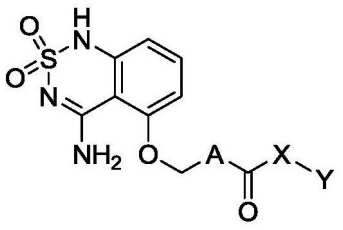
[0431] 在一些实施方案中,甜味增强剂为由式E限定的化合物:

[0432]  或其互变异构体或盐,

(E),

[0433] 其中,R^1和R^2均为甲基、乙基或丙基;或者,R^1和R^2连同它们连接的碳原子一起形成环丙基、环丁基、环戊基或环己基;n为0、1、2或3;并且R^3为卤素、氰基、羟基、胺、取代的胺、烷氧基、取代的烷氧基、芳氧基、取代的芳氧基、酰基、磺酰胺、酯、烷基、取代的烷基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、碳环基、取代的碳环基、杂环基或取代的杂环基。

[0434] 在一些实施方案中,甜味增强剂为由式F限定的化合物:

[0435]  或其互变异构体或盐,

(F),

[0436] 或其盐或溶剂化物;其中

[0437] A为任选取代的四元、五元、六元、七元或八元氮杂环;

[0438] X为共价键或$-NR^1-$;

[0439] R^1为氢或C1至C6烷基;以及

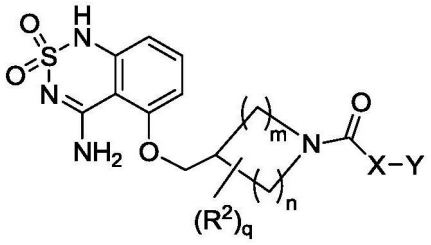
[0440] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或取代的杂芳基烷基。

[0441] 在式(F)的一个实施方案中,X为NH。

[0442] 在式(F)的一个实施方案中,X为共价键。

[0443] 在式(F)的一个实施方案中,A为任选取代的五元、六元或七元氮杂环。在式(F)的一个实施方案中,A为任选取代的六元氮杂环。在式(F)的一个实施方案中,A为任选取代的哌啶。

[0444] 在一些实施方案中,甜味增强剂为由式G限定的化合物:

[0445]  或其互变异构体或盐,

(G),

[0446] 其中,

[0447] m为1、2、3、4、5或6;

[0448] n为0、1、2或3;条件是m+n大于1并且小于7;

[0449] q为0、1、2、3、4、5或6;条件是q小于m+n;

[0450] X为共价键或$-NR^1-$;

[0451] R^1为氢或C1至C6烷基;

[0452] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或者取代的杂芳基烷基;以及

[0453] 各个R^2独立地选自烷基、杂烷基、卤素、羟基、烷氧基、氨基、烷基氨基、氰基、硝基、卤代烷基、羧酸、酰胺、酯、酰基、硫醇、烷基硫代和磺酰胺。

[0454] 在式(G)的一个实施方案中,X为NH。

[0455] 在式(G)的一个实施方案中,X为共价键。

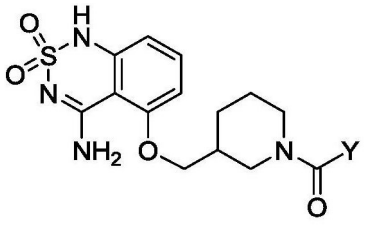
[0456] 在式(G)的一个实施方案中,m为1、2、3或4;并且n为0、1或2。

[0457] 在式(G)的一个实施方案中,q为1、2或3。

[0458] 在式(G)的一个实施方案中,q为0。

[0459] 在式(G)的一个实施方案中,m为4,并且n为0;或者m为3,并且n为1;或者m和n均为2。

[0460] 在一些实施方案中,甜味增强剂为由式(H)限定的化合物:

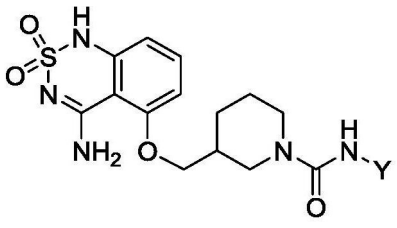
[0461]  或其互变异构体或盐,

(H),

[0462] 其中,

[0463] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或取代的杂芳基烷基。

[0464] 在一些实施方案中,甜味增强剂为由式(J)限定的化合物:

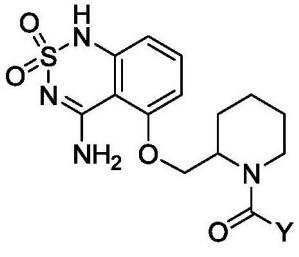
[0465]  或其互变异构体或盐，

(J)，

[0466] 其中，

[0467] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或取代的杂芳基烷基。

[0468] 在一些实施方案中，甜味增强剂为由式(K)限定的化合物：

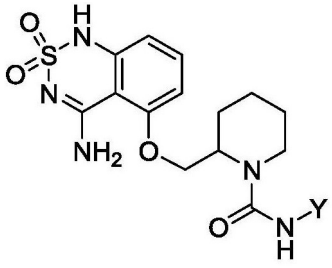
[0469]  或其互变异构体或盐，

(K)，

[0470] 其中，

[0471] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或取代的杂芳基烷基。

[0472] 在一些实施方案中，甜味增强剂为由式(A1)限定的化合物：

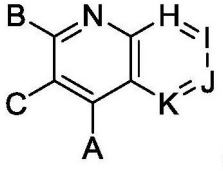
[0473]  或其互变异构体或盐，

(A1)，

[0474] 其中，

[0475] Y为烷基、取代的烷基、杂烷基、取代的杂烷基、碳环基、取代的碳环基、杂环基、取代的杂环基、芳基、取代的芳基、杂芳基、取代的杂芳基、芳烷基、取代的芳烷基、杂芳基烷基或取代的杂芳基烷基。

[0476] 在一些实施方案中，甜味增强剂为由式(B1)限定的化合物：

[0477]  或其互变异构体或盐，

(B1)，

[0478] 其中：

[0479] A为$-OR^1$、$-NR^1C(O)R^2$、$-NHOR^1$、$-NR^1R^2$、$-NR^1CO_2R^2$、$-NR^1C(O)NR^2R^3$、$-NR^1C(S)NR^2R^3$或$-NR^1C(=NH)NR^2R^3$；

[0480] B为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-OR^4、-S(O)$_a$$R^4$、-$NR^4R^5$、-C(O)$NR^4R^5$、-$CO_2R^4$、-$NR^4CO_2R^5$、-$NR^4$C(O)$NR^5R^6$、-$NR^4$C(S)$NR^5R^6$、-$NR^4$C(=NH)$NR^5R^6$、-$SO_2NR^4R^5$、-$NR^4SO_2R^5$、-$NR^4SO_2NR^5R^6$、-B($OR^4$)($OR^5$)、-P(O)($OR^4$)($OR^5$)或-P(O)($R^4$)($OR^5$)；

[0481] C为-OR^7、-S(O)$_b$$R^7$、$SO_3R^7$、-C(O)$NR^7R^8$、-$CO_2R^7$、-$NR^7CO_2R^8$、-$NR^7$C(O)$NR^8R^9$、-$NR^7$C(=NH)$NR^8R^9$、-$SO_2NR^7R^8$、-$NR^7SO_2R^8$、-$NR^7SO_2NR^8R^9$、-B($OR^7$)($OR^8$)、-P(O)($OR^7$)($OR^8$)、-P(O)($R^7$)($OR^8$)或杂芳基；

[0482] a和b独立地为0、1或2；以及

[0483] R^1、R^2、R^3、R^4、R^5、R^6、R^7、R^8和R^9独立的地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基；或者，R^1和R^2、R^2和R^3、R^4和R^5、R^5和R^6、R^7和R^8、或者R^8和R^9连同它们键合的原子一起形成环杂烷基或取代的环杂烷基环；

[0484] H为-C(R^{21})-或-N-；

[0485] I为-C(R^{22})或-N-；

[0486] J为-C(R^{23})-或-N-；

[0487] K为-C(R^{24})-或-N-；

[0488] R^{21}为氢、烷基、取代的烷基、卤素、-CN、-OR^{25}；

[0489] R^{22}为氢、烷基、取代的烷基、卤素、-CN、-OR^{27}；

[0490] R^{23}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、卤素、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-OR^{29}、-S(O)$_f$$R^{29}$、-OC(O)$R^{29}$、-$NR^{29}R^{30}$、-C(O)$NR^{29}R^{30}$、-$CO_2R^{29}$、-$SO_2NR^{29}R^{30}$、-$NR^{29}SO_2R^{30}$、-B($OR^{29}$)($OR^{30}$)、-P(O)($OR^{29}$)($OR^{30}$)或-P(O)($R^{29}$)($OR^{30}$)；

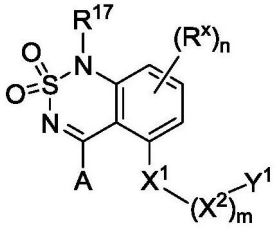
[0491] R^{24}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、卤素、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-OR^{31}、-S(O)$_g$$R^{31}$、-OC(O)$R^{31}$、-$NR^{31}R^{32}$、-C(O)$NR^{31}R^{32}$、-C(O)$R^{31}$、-$CO_2R^{31}$、-$SO_2NR^{31}R^{32}$、-$NR^{31}SO_2R^{32}$、-B($OR^{31}$)($OR^{32}$)、-P(O)($OR^{31}$)($OR^{32}$)或-P(O)($R^{31}$)($OR^{32}$)；或者$R^{23}$和$R^{24}$连同它们连接的原子一起形成环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0492] f和g独立地为0、1或2；以及

[0493] R^{25}、R^{27}、R^{29}、R^{30}、R^{31}和R^{32}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、或取代的杂芳基烷基；或者R^{25}和R^{27}、R^{27}和R^{29}、R^{29}和R^{30}、R^{29}和R^{31}、或者R^{31}和R^{32}连同它们连接的原子一起形成环杂烷基或取代的环杂烷基环；

[0494] 条件是H、I、J和K中的至多两个为-N-。

[0495] 在一些实施方案中，甜味增强剂为由式(C1)限定的化合物：

[0496]  或其互变异构体或盐，

(C1)，

[0497] 其中

[0498] A为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-OR^9、-NO_2、-$S(O)_cR^9$、-NOR^9、-$NHOR^9$、-NR^9COR^{10}、-NR^9R^{10}、-$CONR^9R^{10}$、-CO_2R^9或-$NR^9CO_2R^{10}$；

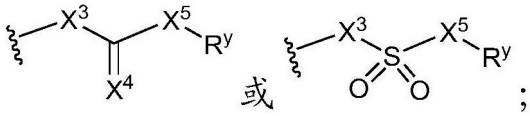
[0499] R^{17}为氢、烷基、取代的烷基、芳基烷基或取代的芳基烷基；

[0500] X^1为-CH_2-、-O-、-NR^9-、-S-、-S(O)-或-$S(O)_2$-；

[0501] X^2为亚烷基、取代的亚烷基、亚杂烷基、或取代的亚杂烷基；

[0502] m为0或1；

[0503] Y^1为杂芳基、取代的杂芳基、环杂烷基、取代的环杂烷基或者

[0504]  ；

[0505] X^3和X^5独立地为共价键、-O-或-NR^9-；

[0506] X^4为O、NR^9、N-OR^9或S；

[0507] R^x为卤素、-NO_2、-CN、-OH、-NH_2、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基；

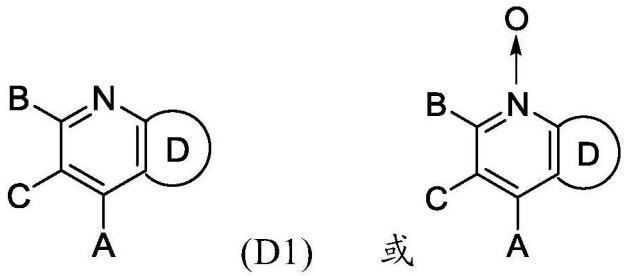
[0508] n为0、1、2或3；

[0509] R^y为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基、-NR^9R^{10}；以及

[0510] 各个R^9和R^{10}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基；

[0511] 条件是当X^1为-O-或-S-，并且m为零时；则X^3不为-O-。

[0512] 在一些实施方案中，甜味增强剂为由式(D1)或(E1)限定的化合物：

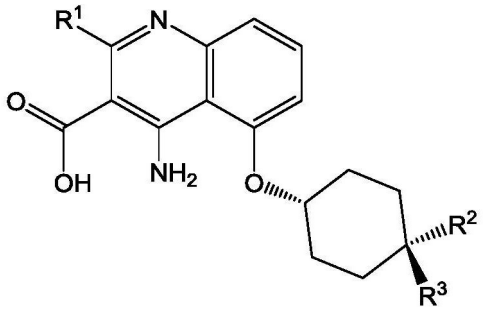
[0513] 

(D1) 或 (E1)，

或其互变异构体或盐，其中：A为-OR^1、-$NR^1C(O)R^2$、-$NHOR^1$、-NR^1R^2、-$NR^1CO_2R^2$、-$NR^1C(O)NR^2R^3$、-$NR^1C(S)NR^2R^3$或-$NR^1C(=NH)NR^2R^3$；B为氢、烷基、取代的烷基、芳基、取代的芳基、芳基

烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-OR^4、-$S(O)_aR^4$、-NR^4R^5、-$C(O)NR^4R^5$、-CO_2R^4、-$NR^4CO_2R^5$、-$NR^4C(O)NR^5R^6$、-$NR^4C(S)NR^5R^6$、-$NR^4C(=NH)NR^5R^6$、-$SO_2NR^4R^5$、-$NR^4SO_2R^5$、-$NR^4SO_2NR^5R^6$、-$B(OR^4)(OR^5)$、-$P(O)(OR^4)(OR^5)$或-$P(O)(R^4)(OR^5)$；为-OR^7、-$S(O)_bR^7$、SO_3R^7、-$C(O)NR^7R^8$、-CO_2R^7、-$NR^7CO_2R^8$、-$NR^7C(O)NR^8R^9$、-$NR^7C(=NH)NR^8R^9$、-$SO_2NR^7R^8$、-$NR^7SO_2R^8$、-$NR^7SO_2NR^8R^9$、-$B(OR^7)(OR^8)$、-$P(O)(OR^7)(OR^8)$、-$P(O)(R^7)(OR^8)$或杂芳基(例如，四唑)；D为芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环，其中所述环任选地稠合至另一个芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；a和b独立地为0、1或2；并且R^1、R^2、R^3、R^4、R^5、R^6、R^7、R^8和R^9独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基；或者，R^1和R^2、R^2和R^3、R^4和R^5、R^5和R^6、R^7和R^8或者R^8和R^9连同它们键合的原子一起形成环杂烷基或取代的环杂烷基环。

[0514] 在一些实施方案中，甜味增强剂为由式(F1)限定的化合物：

[0515] 

(F1)，或其盐或互变异构体，其中：

[0516] R^1可以为氢或者被C_{1-6}烷氧基或-OH任选取代的C_{1-6}烷基；

[0517] R^2可以选自氢、-OH、任选取代的C_{1-6}烷氧基、被C_{1-6}烷氧基任选取代的C_{1-6}烷基；

[0518] R^3可以选自氢、-OH、任选取代的C_{1-6}烷基、任选取代的C_{3-7}碳环基、任选取代的C_{1-6}烷氧基、-$(CH_2)_nNHC(=O)R^4$、-$(CH_2)_nNR^5R^6$和-$(CH_2)_nC(=O)NR^5R^6$；

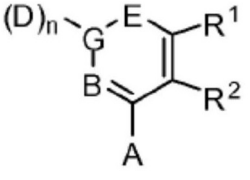
[0519] n可以为0、1、2或3；

[0520] R^4可以选自任选取代的C_{3-7}碳环基、任选取代的芳基、任选取代的5元至10元杂芳基、任选取代的3元至10元杂环基和取代的C_{1-6}烷基；

[0521] R^5可以选自氢、任选取代的C_{1-6}烷基、任选取代的C_{3-7}碳环基、任选取代的芳基以及任选取代的5元至10元杂芳基；以及

[0522] R^6可以选自氢、取代的C_{1-6}烷基、任选取代的C_{3-7}碳环基、任选取代的芳基和任选取代的5元至10元杂芳基，条件是当R^2和R^3均为氢时，则R^1不为甲基或-CH_2OH。

[0523] 在一些实施方案中，增味剂和/或风味增强剂选自由式(G1)限定的化合物：

[0524] 

(G1)

[0525] 或其盐、水合物、溶剂化物或N-氧化物，其中：

[0526] G与D或E形成单键，并且与D或E中的另一个形成双键；

[0527] R1为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^3、-$S(O)_aR^3$、-NR^3R^4、

[0528] -$CONR^3R^4$、-CO_2R^3、-$NR^3CO_2R^4$、-$NR^3CONR^4R^4$、-$NR^3CSNR^4R^5$或-$NR^3C(=NH)NR^4R^5$、

[0529] -$SO_2NR^2R^3$、-$NR^2SO_2R^3$、-$NR^2SO_2NR^3R^4$、-$B(OR^2)(OR^3)$、-$P(O)(OR^2)(OR^3)$或-$P(O)(R^2)(OR^3)$；

[0530] R^2为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^6、-$S(O)_bR^6$、-NR^6R^7、-$CONR^6R^7$、-CO_2R^6、-$NR^6CO_2R^7$、-$NR^6CONR^7R^8$、-$NR^6CSNR^7R^8$或-$NR^6C(=NH)NR^7R^8$、-$SO_2NR^5R^6$、-$NR^5SO_2R^6$、-$NR^5SO^2NR^6R^7$、-$B(OR^5)(OR^6$、-$P(O)(OR^5)(OR^6)$、-$P(O)(R^5)(OR^6)$，或者，R^1和R^2连同它们键合的原子一起形成芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环，其中所述环任选地稠合至另一个芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0531] 条件是R^1和R^2不均为氢；

[0532] A为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^9、-$S(O)_cR^9$、-NR^9R^{10}、NOR^9、-$CONR^9R^{10}$、-CO_2R^9、-$NR^9CO_2R^{10}$-$NR^9CONR^{10}R^{11}$-$NR^9CSNR^{10}R^{11}$或-$NR^9C(=NH)NR^{10}R^{11}$

[0533] B为-N-或-$C(R^{12})$-；

[0534] R^{12}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-$NR^{13}R^{14}$、-CN、-OR^{13}、-$S(O)_dR^{13}$、CO_2R^{13}或-$CONR^{13}R^{14}$；

[0535] G为-C-或-$S(O)_2$；

[0536] 条件是当G为-$S(O)_2$时，G与E形成单键；

[0537] 当D与G之间的键为单键时，D为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、卤素、氯、氟、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-OR^{15}、-NOR^{15}、-$S(O)_eR^{15}$、-$NR^{15}R^{16}$、-NCN、-CO_2R^{15}、-$CONR^{15}R^{16}$；

[0538] 当G与D形成双键时，D为=O、=S、=N-OR^{15}、=$NHNHR^{15}$；

[0539] 当G为-$S(O)_r$时，n为0，并且当G为-C-时，n为1；

[0540] E为-NR^{17}-、-N-或-$C(R^{18})$-；

[0541] 条件是当G与E形成单键时，E仅为-NR^{17}-；

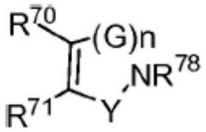
[0542] R^{17}为烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基或-CO_2R^{19}；

[0543] R^{18}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-$NR^{20}R^{21}$、-CN、-OR^{20}、-$S(O)_fR^{20}$、-CO_2R^{20}或-$CONR^{20}R^{21}$；

[0544] a、b、e、d、e和f独立地为0、1或2；以及

[0545] R^3至R^{11}、R^{13}至R^{16}、R^{18}、R^{20}和R^{21}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^3和R^4、R^4和R^5、R^6和R^7、R^7和R^8、R^9和R^{10}、R^{10}和R^{11}、R^{13}和R^{14}、R^{15}和R^{16}以及R^{20}和R^{21}连同它们键合的原子一起形成环杂烷基或取代的环杂烷基环。

[0546] 在一些实施方案中，增味剂和/或风味增强剂选自由式(H1)限定的化合物：

[0547] 

(H1)

[0548] 或其盐、溶剂化物、水合物或N-氧化物，其中：

[0549] 各个G独立地为-C(R^{77})(R^{78})-、-C(O)-、-NR^{77}-或-$S(O)_2$-；

[0550] n为1、2或3；

[0551] 条件是当n大于大于1时，则仅有一个G为-C(O)-、-C(S)、-$S(O)_2$或者

[0552] Y为-C(O)-、-C(S)或-$S(O)_2$；

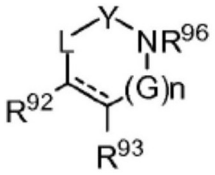
[0553] R^{70}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^{72}、-$S(O)_aR^{72}$、-$NR^{72}R^{73}$、-$CONR^{72}R^{73}$、-CO_2R^{72}-$NR^{72}CO_2R^{73}$-$NR^{72}CONR^{73}R^{74}$-$NR^{72}CSNR^{73}R^{74}$或-$NR^{72}C(=NH)NR^{73}R^{74}$、-$SO_2NR^{72}R^{73}$、-$NR^{72}SO_2R^{73}$、-$NR^{72}SO_2NR^{73}R^{74}$、-$B(OR^{72})(OR^{73})$、-$P(O)(OR^{72})(OR^{73})$或-$P(O)(R^{72})(OR^{73})$；

[0554] R^{71}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^{74}、-$S(O)_bR^{74}$、-$NR^{74}R^{75}$、-$CONR^{74}R^{75}$-CO_2R^{74}-$NR^{74}CO_2R^{75}$-NR、74$CONR^{75}R^{76}$-$NR^{74}CSNR^{75}R^{76}$或-$NR^{74}C(=NH)NR^{75}R^{76}$、-$SO_2NR^{74}R^{75}$、-$NR^{74}SO_2R^{75}$、-$NR^{74}SO_2NR^{75}R^{76}$、-$B(OR^{74})(OR^{75})$、-$P(O)(OR^{74})(OR^{75})$、-$P(O)(R^{74})(OR^{75})$，或者，$R^{71}$和$R^{72}$连同它们键合的原子一起形成芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环，其中所述环任选地稠合至另一个芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0555] a和b独立地为0、1或2；

[0556] R^{72}至R^{76}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^{72}和R^{73}、R^{73}和R^{74}、R^{74}和R^{75}以及R^{75}和R^{76}连同它们键合的原子一起形成环杂烷基或取代的环杂烷基环；并且R^{77}至R^{78}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^{77}和R^{78}连同它们键合的原子一起形成环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环。

[0557] 在一些实施方案中，增味剂和/或风味增强剂选自由式(J1)限定的化合物：

[0558] 

(J1)

[0559] 或其盐、溶剂化物、水合物或N-氧化物，其中：

[0560] 各个G独立地为-C(R^{94})(R^{95})-、-C(O)-、-NR^{94}-或-$S(O)_2$-；

[0561] n为1、2或3；

[0562] 条件是当n大于1时，则仅有一个G为-C(O)-、-$S(O)_2$-或-NR^{94}-；

[0563] Y为-C(O)-、-C(S)-或-$S(O)_2$；

[0564] L为-C(R^{104})(R^{105})-、-O-或-NR^{104}-；

[0565] R^{92}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^{98}、-$S(O)_yR^{98}$、-$NR^{98}R^{99}$、-$CONR^{98}R^{99}$-CO_2R^{99}、-$NR^{98}CO_2R^{99}$-$NR^{98}CONR^{99}R^{100}$-$NR^{98}CSNR^{99}R^{100}$或-$NR^{98}C(=NH)NR^{99}R^{100}$、-$SO_2NR^{98}R^{99}$、-$NR^{98}SO_2R^{99}$、-$NR^{98}SO_2NR^{99}R^{100}$、-B($OR^{98}$)($OR^{99}$)、-P(O)($OR^{98}$)($OR^{99}$)或-P(O)($R^{98}$)($OR^{99}$)；

[0566] R^{93}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基、取代的杂芳基烷基、-CN、-NO_2、-OR^{100}、-$S(O)_yR^{101}$、-$NR^{101}R^{102}$-$CONR^{101}R^{102}$-CO_2R^{101}-$NR^{101}CO_2R^{102}$-$NR^{101}CONR^{102}R^{103}$-$NR^{101}CSNR^{102}R^{103}$或-$NR^{101}C(=NH)NR^{102}R^{103}$、-$SO_2NR^{101}R^{102}$、-$NR^{101}SO_2R^{102}$、-$NR^{101}SO_2NR^{102}R^{103}$、-B($OR^{101}$)($OR^{102}$)、-P(O)($OR^{101}$)($OR^{102}$)、-P(O)($R^{101}$)($OR^{102}$)，或者，$R^{92}$和$R^{93}$连同它们键合的原子一起形成芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环，其中所述环任选地稠合至另一个芳基、取代的芳基、杂芳基、取代的杂芳基、环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0567] x和y独立地为0、1或2；

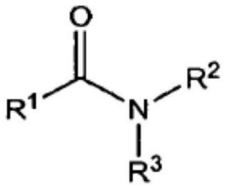
[0568] R^{98}至R^{103}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^{98}和R^{99}、R^{99}和R^{100}、R^{101}和R^{102}以及R^{101}和R^{102}连同它们键合的原子一起形成环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0569] R^{94}至R^{95}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^{94}和R^{95}连同它们键合的原子一起形成环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环；

[0570] R^{96}为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基；以及

[0571] R^{104}至R^{105}独立地为氢、烷基、取代的烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、酰基、取代的酰基、杂烷基、取代的杂烷基、杂芳基、取代的杂芳基、杂芳基烷基或取代的杂芳基烷基，或者，R^{104}和R^{105}连同它们键合的原子一起形成环烷基、取代的环烷基、环杂烷基或取代的环杂烷基环。

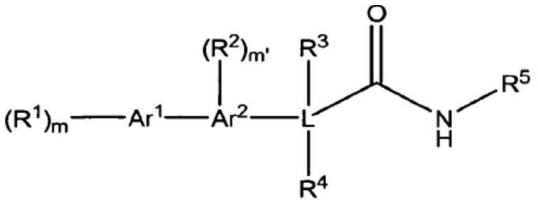
[0572] 在一些实施方案中，增味剂和/或风味增强剂选自由式(K1)限定的化合物：

[0573]  或其盐，其中：

(K1)，

[0574] R^1包含具有至少三个碳原子和任选的一个或多个独立地选自氧、氮、硫、卤素或磷的杂原子的有机残基或烃残基；并且其中任选地R^2和R^3之一为H，并且其中其他的R^2和R^3中的至少一个包含具有至少三个碳原子和任选的一个或多个独立地选自氧、氮、硫、卤素或磷的杂原子的有机残基或烃残基。

[0575] 在一些实施方案中，增味剂和/或风味增强剂选自由式(A2)限定的化合物：

[0576]  或其盐，其中：

(A2)，

[0577] Ar^1、Ar^2、L、R^1、R^2、R^3、R^4、R^5、m和m'(其中一些是任选的)可以独立地以各种方式进一步限定，如在下文本发明的详细描述中进一步详细说明。然而要求是对于式(I)的所有化合物，L为碳原子或氮原子，Ar^1和Ar^2基团独立地选自芳香环基团，即芳基或杂芳基环基团，并且R^5为有机基团。

[0578] 在式(A2)的一些实施方案中：

[0579] i)Ar^1和Ar^2独立地选自单环芳基、稠合的二环芳基、单环杂芳基、或者稠合的二环杂芳基环；

[0580] ii)m选自整数0、1、2、3、4或5；

[0581] iii)m'选自整数0、1、2、3或4；

[0582] iv)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团；

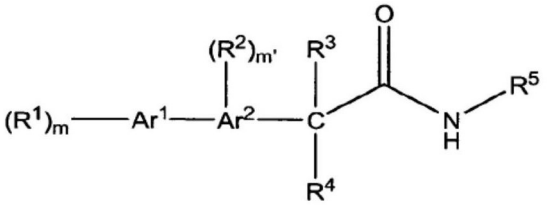
[0583] v)L为碳原子或氮原子；

[0584] vi)R^3为氢、氧、羟基、卤素或C_1-C_6有机基团：

[0585] vii)R^4不存在，或者为氢、氧、羟基、卤素或C_1-C_6有机基团；

[0586] viii)R^5为含有常规或支链的烷基或环烷基的C_1-C_{14}有机基团，其中所述常规或支链的烷基或环烷基任选地包含独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团的一个至四个取代基。

[0587] 在式(A2)的一些实施方案中，L为碳原子。式(A2)的一些实施方案具有结构：

[0588]  或其盐，其中：

(A2)，

[0589] i)Ar^1和Ar^2独立地选自苯基或者单环杂芳基环；

[0590] ii)m和m'独立地选自整数0、1或2

[0591] iii)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_4有机基团；

[0592] iv)R^3和R^4独立地选自氢和C_1-C_4烷基，

[0593] v)R^5为任选地包含独立地选自OH、NH_2、卤素和C_1-C_6有机基团的一个、两个或三个取代基的C_3-C_{10}支链烷基。

[0594] 在式(A2)的一些实施方案中：

[0595] i)Ar^1和Ar^2独立地选自单环芳基、稠合二环芳基、单环杂芳基、或稠合二环杂芳基环；

[0596] ii)m选自整数0、1、2、3、4或5；

[0597] iii)m'选自整数0、1、2、3或4；

[0598] iv)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团；

[0599] v)L为碳原子；

[0600] vi)R^3为氢、氧、羟基、卤素或C_1-C_6有机基团；

[0601] vii)R^4为氢、氧、羟基、卤素或C_1-C_6有机基团；以及

[0602] viii)R^5为包含常规或支链的烷基或环烷基的C_1-C_{14}有机基团，其中所述常规或支链的烷基或环烷基任选地包含独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团的一个至四个取代基。

[0603] 在式(A2)的一些实施方案中：

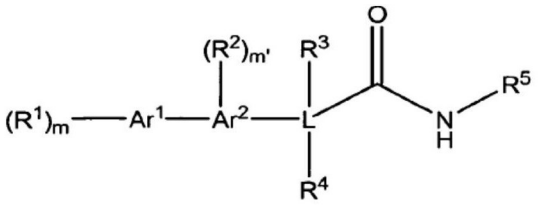
[0604] a)Ar^1和Ar^2独立地选自苯基或者5元或6元单环杂芳基环，

[0605] b)各个R^1和R^2独立地选自羟基、氟、氯、NH_2、$NHCH_3$、$N(CH_3)_2$、CN、OC(O)CH_3、SCH_3、S(O)CH_3、$S(O)_2CH_3$、$S(O)_2NHCH_3$、SC_2H甲基、乙基、丙基、异丙基、乙烯基、烯丙基、CN、CH_2OH、CH_2OCH_3、$CH_2OCH_2CH_3$、C(O)H、C(O)CH_3、甲氧基、乙氧基和异丙氧基，

[0606] c)R^3和R^4为甲基，以及

[0607] d)R^5为C_3-C_{10}支链烷基。

[0608] 在一些实施方案中，增味剂和/或风味增强剂选自由式(B2)限定的化合物：

[0609] 

(B2)

[0610] 其中Ar^1、Ar^2、L、R^1、R^2、R^3、R^4、R^5、m和m'(其中一些是任选的)可以独立地以各种方式进一步限定，如下文进一步详细说明。然而要求是对于式(I)的所有化合物，L为碳原子或氮原子，Ar^1和Ar^2基团独立地选自芳香环基团，即芳基或杂芳基环基团，并且R^5为有机基团。

[0611] 在式(B2)的一些实施方案中：

[0612] i)Ar^1和Ar^2独立地选自单环芳基、稠合的二环芳基、单环杂芳基、或稠合的二环杂芳基环；

[0613] ii)m选自整数0、1、2、3、4或5；

[0614] iii)m'选自整数0、1、2、3或4；

[0615] iv)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团；

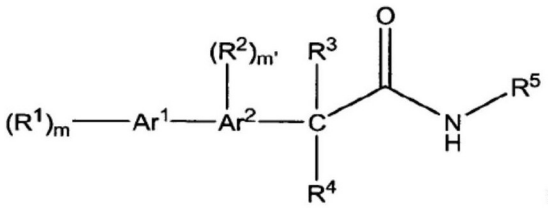
[0616] v)L为碳原子或氮原子；

[0617] vi)R^3为氢、氧、羟基、卤素或C_1-C_6有机基团；

[0618] vii)R^4不存在，或者为氢、氧、羟基、卤素或C_1-C_6有机基团；

[0619] viii)R^5为包含常规或支链的烷基或环烷基的C_1-C_{14}有机基团，其中所述常规或支链的烷基或环烷基任选地包含独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团的一个至四个取代基。

[0620] 在式(B2)的化合物的一些实施方案中，L为碳原子。在一些实施方案中，式(B2)的化合物具有结构：

[0621]  或其盐，其中：

[0622] i)Ar^1和Ar^2独立地选自苯基或单环杂芳基环；

[0623] ii)m和m'独立地选自整数0、1或2

[0624] iii)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_4有机基团；

[0625] iv)R^3和R^4独立地选自氢和C_1-C_4烷基，

[0626] v)R^5为任选地包含独立地选自OH、NH_2、卤素和C_1-C_6有机基团的一个、两个或三个取代基的C_3-C_{10}支链烷基；

[0627] 在式(B2)的化合物的一些实施方案中：

[0628] i)Ar^1和Ar^2独立地选自单环芳基、稠合的二环芳基、单环杂芳基、或稠合的二环杂芳基环；

[0629] ii)m选自整数0、1、2、3、4或5；

[0630] iii)m'选自整数0、1、2、3或4；

[0631] iv)各个R^1和R^2独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团；

[0632] v)L为碳原子；

[0633] vi)R^3为氢、氧、羟基、卤素或C_1-C_6有机基团；

[0634] vii)R^4为氢、氧、羟基、卤素或C_1-C_6有机基团；以及

[0635] viii)R^5为包含常规或支链的烷基或环烷基的C_1-C_{14}有机基团，其中所述常规或支链的烷基或环烷基任选地包含独立地选自OH、NH_2、NO_2、SH、SO_3H、PO_3H、卤素和C_1-C_6有机基团的一个至四个取代基；

[0636] 在式(B2)的化合物的一些实施方案中：

[0637] a)Ar^1和Ar^2独立地选自苯基或者5元或6元单环杂芳基环，

[0638] b)各个R1和R2独立地选自羟基、氟、氯、NH_2、$NHCH_3$、$N(CH_3)_2$、CN、OC(O)CH_3、SCH_3、S(O)CH_3、S(O)$_2CH_3$、S(O)$_2NHCH_3$、SC_2H甲基、乙基、丙基、异丙基、乙烯基、烯丙基、CN、CH_2OH、CH_2OCH_3、$CH_2OCH_2CH_3$、C(O)H、C(O)CH_3、甲氧基、乙氧基和异丙氧基，

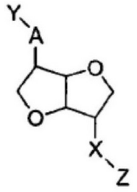
[0639] c)R^3和R^4为甲基，以及

[0640] d)R^5为C_3-C_{10}支链烷基。

[0641] 在一些实施方案中，增味剂和/或风味增强剂为4-氨基-5,6-二甲基噻吩并[2,3-

d]嘧啶-2(1H)-酮或其盐、溶剂化物和/或酯。

[0642] 在一些实施方案中，增味剂和/或风味增强剂选自由式(C2)限定的化合物：

[0643]  或其盐、溶剂化物、N-氧化物和/或酯，其中：

(C2)，

[0644] A为芳基、杂芳基或共价键；

[0645] Y为氢、烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、杂芳基烷基、取代的杂芳基烷基、杂环基烷基、取代的杂环基烷基、碳环基、取代的碳环基、酰基、卤素、-CN、$-NO_2$、$-OR^1$、$-S(O)R^1$、$-S(O)_2R^1$、$-OC(O)R^1$、$-N(R^1)C(O)R^2$、$-NR^1R^2$、$-C(O)NR^1R^2$、$-C(O)OR^1$、$-S(O)_2NR^1R^2$、$-COR^1$、$-N(R^1)S(O)_2R^2$、$-SR^1$、$-C(R^1R^2R^6)$、$-C(S)-R^1$、$-C(=NR^2)-R^1$、$-N(R^1)-C(=N-OR^2)R^6$、$N(R^1)C(S)NR^2R^6$、$-C(=N-OR^1)R^2$、$-C(=NR^1)-$:NR^2R^6、$-N(R^1)C(=NR^2)NR^6R^7$、$-N(R^1)C(S)R^2$、$-N(R^1)-C(O)-C(O)R^2$、$-C(S)-NR^1R^2$、$-N(R^1)C(=NR^2)OR^6$、$-C(=NR^1)O-NR^2R^6$、$-N(R^1)N(R^2)C(O)OR^6$、$-N(R^1)C(O)OR^2$、$-N(R^1)C(O)NR^2R^6$、$-N(R^1)-C(O)-C(O)-NR^2R^6$、$-C(O)-C(O)-NR^1R^2$、$-P(O)(OR^1)(OR^2)$、$-P(O)(OR^1)(R^2)$或$-P(O)R^1R^2$；

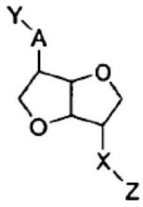
[0646] X为-O-、-S-、$-S(O)_2-$、$-C(R^3R^4)-$、$-C(O)-$、$-C(S)-$、$-C(=NR^3)-$、$-C(O)O-$、$-N(R^3)-$、$-OC(O)-$、$-N(R^3)C(O)-$、$-C(O)N(R^3)-$、$-N(R^3)-C(=N-OR^4)-$、$-C(=N-OR^3-$、$-C(=NR^3)-NR^4-$、$-N(R^3)C(S)N(R^4)-R^5-N(R^3)C(O)N(R^4)-R^5-N(R^3)C(=NR^4-$、$-N(R^3)C(S)-$、$-N(R^3)-C(O)C(O)--C(S)-N(R^3)-$、$-N(R^3)S(O)_2-$、$-S(O)_2-N(R^3-$、$-N(R^3)C(=NR^4)O-$、$-C(=NR^4)O-N(R^3)-$、$-N(R^3)-C(=NR^4)-N(R^5)-$、$-N(R^3)N(R^4)C(O)O-$、$-N(R^3)C(O)O-$、$-N(R^3)C(O)N(R^4)-$、$-N(R^3)-C(O)-C(O)-NR^4-$、$-C(O)-C(O)-NR^4-$、$-P(O)(OR^3)-$或$-P(O)R^3-$；

[0647] Z为烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、杂芳基烷基、取代的杂芳基烷基、杂环基烷基、取代的杂环基烷基、碳环基或取代的碳环基；

[0648] R^1、R^2、R^3、R^4、R^5、R^6和R^7各自独立地为氢、烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、碳环基、取代的碳环基、杂芳基烷基或取代的杂芳基烷基；以及

[0649] 具有以下条件：(a)当A为三唑或四唑时；则-X-Z不为-O-烷基、-O-酰基或磺酰氨基；(b)当A为四唑，并且Z为环己基时；则X不为-NH-C(O)-、-NH-C(O)-NH-；以及(e)当A为共价键时，则Y不为氢。

[0650] 在一些实施方案中，增味剂和/或风味增强剂选自由式(D2)限定的化合物：

[0651]  或其盐、溶剂化物、N-氧化物和/或酯，其中：

(D2)，

[0652] A为芳基、杂芳基或共价键；

[0653] Y为氢、烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、杂芳基烷基、取代的杂芳基烷基、杂环基烷基、取代的杂环基烷基、碳环基、取代的碳环基、酰基、卤素、-CN、$-NO_2$、$-OR^1$、-S(O)R^1-S(O)$_2R^1$-OC(O)R^1-N(R^1)C(O)R^2、$-NR^1R^2$、-C(O)NR^1R^2、-C(O)OR^1-S(O)$_2NR^1R^2$、$-COR^1$、-N(R^1)S(O)$_2R^2$、$-SR^1$、-C($R^1R^2R^6$)、-C(S)$-R^1$-C(=NR^2)$-R^1$、-N(R^1)-C(=N-OR 2)R^6、-N(R^1)C(S)NR^2R^6-C(=N-OR^1)R^2、-C(=NR^1)$-NR^2R^6$、-N(R^1)C(=NR^2)NR^6R7、-N(R^1)C(S)R^2、-N(R^1)-C(O)-C(O)R^2、-C(S)$-NR^1R^2$、-N(R^1)C(=NR^2)OR^6-C(=NR^1)O-NR^2R^6、-N(R^1)N(R^2)C(O)OR^6、-N(R^1)C(O)OR^2-N(R^1)C(O)NR^2R^6-N(R^1)-C(O)-C(O)$-NR^2R^6$-C(O)-C(O)$-NR^1R^2$-P(O)(OR^1)(OR^2)、-P(O)(OR^1)(R^2)或-P(O)R^1R^2；

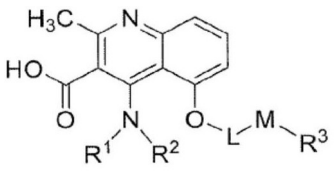
[0654] X为-O-、-S-、-S(O)-、-S(O)$_2$-、-C(R^3R^4)-、-C(O)-、-C(S)-、-C(=NR^3)-、-C(O)O-、-N(R^3)-、-OC(O)-、-N(R^3)C(O)-、-C(O)N(R 3-、-N(R^3)-C(=N-OR4)-、-C(=N-O R 3-、-C(=NR^3)$-NR^4$-、-N(R^3)C(S)N(R^4)$-R^5$、-N(R^3)C(O)N(R^4)$-R^5$、-N(R^3)C(=NR^4)-、-N(R^3)C(S)-、-N(R^3)-C(O)-C(O)-、-C(S)-N(R^3)-、-N(R^3)S(O)$_2$-、-S(O)2-N(R^3)-、-N(R^3)C(=NR^4)O-、-C(=NR^4)O-N(R^3)-、-N(R^3)-C(=NR^4)-N(R^5)-、-N(R^3)N(R^4)C(O)O-、-N(R^3)C(O)O-、-N(R^3)C:(O)N(R^4-、-N(R^3)-C(O)-C(O)$-NR^4$-、-C(O)-C(O)$-NR^4$-、-P(O)(OR^3)-或-P(O)R^3；

[0655] Z为烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、杂芳基烷基、取代的杂芳基烷基、杂环基烷基、取代的杂环基烷基、碳环基或取代的碳环基；

[0656] R^1、R^2、R^3、R^4、R^5、R^6和R^7各自独立地为氢、烷基、取代的烷基、烯基、取代的烯基、炔基、取代的炔基、杂烷基、取代的杂烷基、芳基、取代的芳基、芳基烷基、取代的芳基烷基、芳基烯基、取代的芳基烯基、杂芳基、取代的杂芳基、杂环基、取代的杂环基、碳环基、取代的碳环基、杂芳基烷基、或取代的杂芳基烷基。

[0657] 在一些实施方案中，甜味增强剂为选自5-(新戊基氧基)-1H-苯并[c][1,2,6]噻二嗪-4-氨基-2,2-二氧化物；3-(4-氨基-2,2-二氧化物-1H-苯并[c][1,2,6]噻二嗪-5-基氧基)-2',2'-二甲基-N-丙基丙酰胺的化合物；以及其盐和/或溶剂化物。

[0658] 在一些实施方案中，甜味增强剂选自式(E2)限定的化合物：

[0659]  或其盐、溶剂化物和/或前药；其中：

(E2)，

[0660] R^1和R^2独立地为氢或C_1至C_6烷基；

[0661] L为C_1至C_{12}亚烷基或取代的C_1至C_{12}亚烷基；

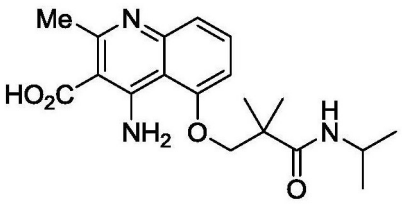
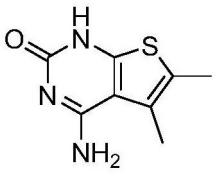
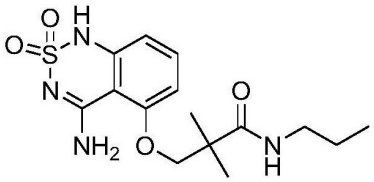
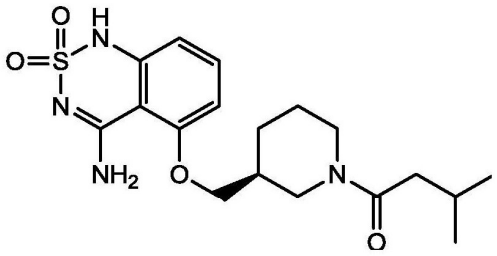
[0662] M为-NR^4-C(O)-或-C(O)-NR^4-；

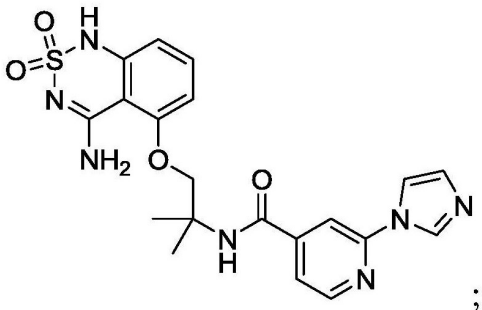
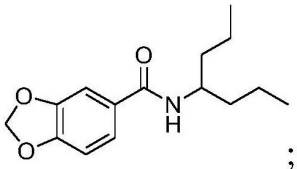
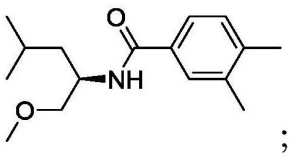
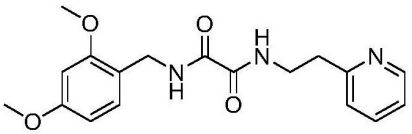
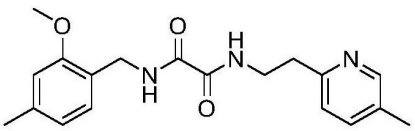
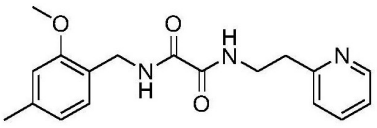
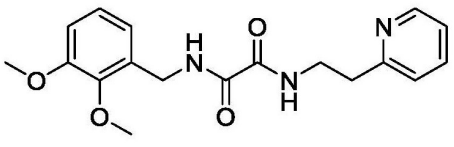
[0663] R^4为氢或C_1至C_6烷基；或者，当M为-NR^4-C(O)-时，-R^4和L的一个或多个原子连同它们连接的氮一起形成含有选自氮、氧和硫的一个至三个杂原子的5元至8元杂环；以及

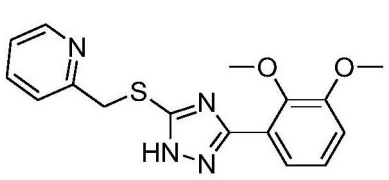
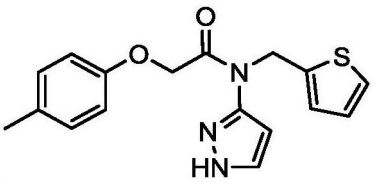
[0664] R^3为C_1至C_{12}烷基、取代的C_1至C_{12}烷基、5元至8元杂环基、或取代的5元至8元杂环基；或者，当M为-C(O)-NR^4时，-R^4和R^3的一个或多个原子连同它们连接的氮一起形成含有选自氮、氧和硫的一个至三个杂原子的5元至8元杂环。

[0665] 在一些实施方案中，甜味增强剂以约0.001ppm至800ppm的量存在。因此，在一些替代方案中，甜味增强剂的量为0.001ppm、0.01ppm、0.1ppm、1ppm、10ppm、50ppm、100ppm、200ppm、300ppm、400ppm、500ppm、600ppm、700ppm或800ppm，或由任意两个前述值限定的范围内的值。

[0666] 在一些实施方案中，本文公开和描述的化合物单独或结合地可以与一种或多种选自以下的化合物结合使用：

[0667] 
； 
； 
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；

[0668] 
； 
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； 
； 
； 
； 
；

[0669]  ;  ; 及其盐。

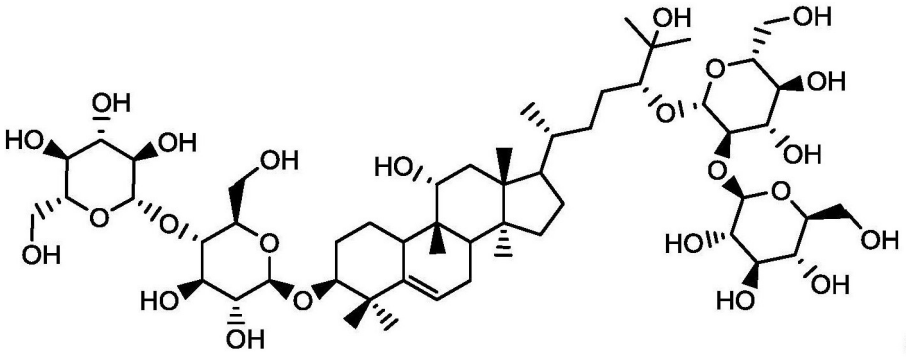
[0670] 制备方法

[0671] 本文公开的化合物可以通过下文描述的方法或这些方法的修改来合成或分离。方法的修改途径尤其包括本领域技术人员已知的温度、溶剂、试剂等。本文示出和描述的方法仅为示例性的，并且并非意在(它们也不应解释为)以任何方式限制权利要求的范围。本领域技术人员将能够认识到所公开方法的修改并且能够基于本文的公开内容想到替代的途径;所有的此类修改和替代途径都在本权利要求的范围内。

[0672] 在一些实施方案中，本文公开的化合物可以通过从罗汉果分离而得到。在一些此类实施方案中，可以使用适合的纯化技术从罗汉果的提取物分级获得。在一些实施方案中，使用HPLC来分级提取物，并且收集适当的级分以得到分离且纯化形式的期望化合物。

[0673] 在其他实施方案中，本文公开的化合物可以通过酶修饰从罗汉果分离的化合物来获得。例如，在一些实施方案中，将从罗汉果分离的化合物用一种或多种酶(例如，糖酶)处理以得到期望的化合物。从罗汉果分离的起始化合物可以包括但不限于罗汉果苷V、罗汉果苷III_E、赛门苷I、罗汉果苷VI异构体、罗汉果苷II_A、罗汉果苷IV_E、或罗汉果苷IV_A。适用于产生本文期望的化合物的酶可以包括但不限于果胶酶、β-半乳糖苷酶(例如，Aromase)、纤维素酶(例如，Celluclast)、环状糊精(clyclomatlodextrin)葡聚糖转移酶(例如，Toruzyme)、转化酶、葡萄糖转移酶(例如，UGT76G1)、右旋糖酐蔗糖酶、乳糖酶、arabanse、木聚糖酶、半纤维素和淀粉酶。

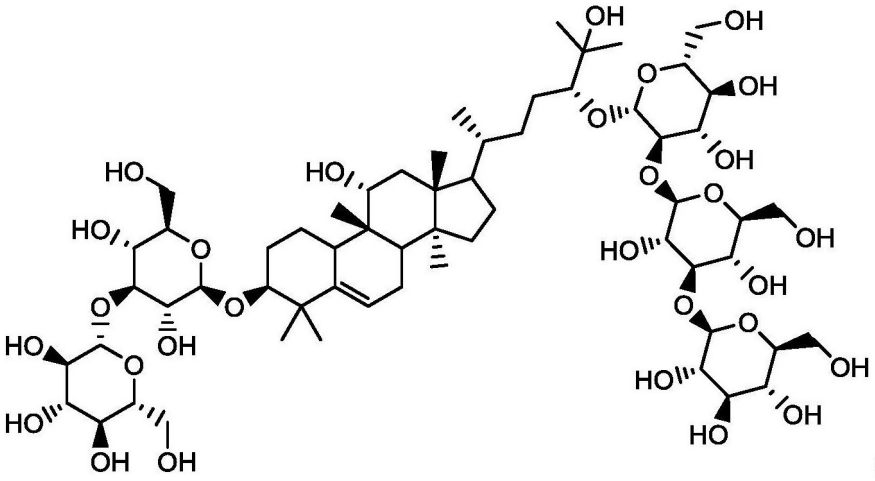
[0674] 一些实施方案提供了制备化合物1的方法，

[0675] 

(1)

[0676] 包括将罗汉果的提取物在HPLC柱上分级并且收集包含化合物1的洗脱级分。

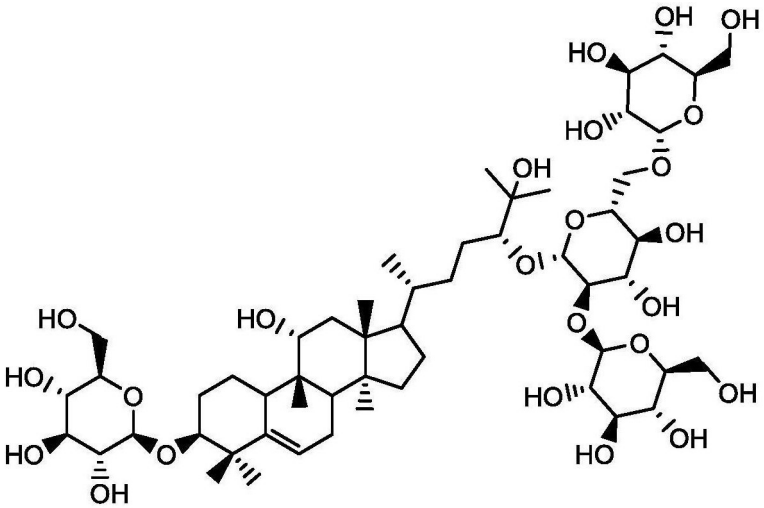
[0677] 一些实施方案提供了制备化合物18的方法，

[0678] 

(18)

[0679] 包括将罗汉果苷III_E用葡萄糖转移酶UGT76G1处理。

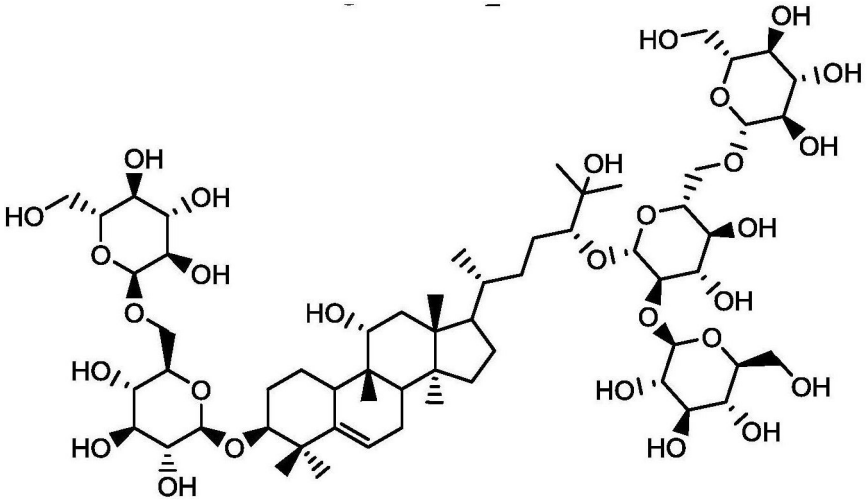
[0680] 一些实施方案提供了制备化合物3的化合物的方法，

[0681] 

(3)，

[0682] 包括在淀粉的存在下将罗汉果苷III_E用环状糊精葡聚糖转移酶处理。

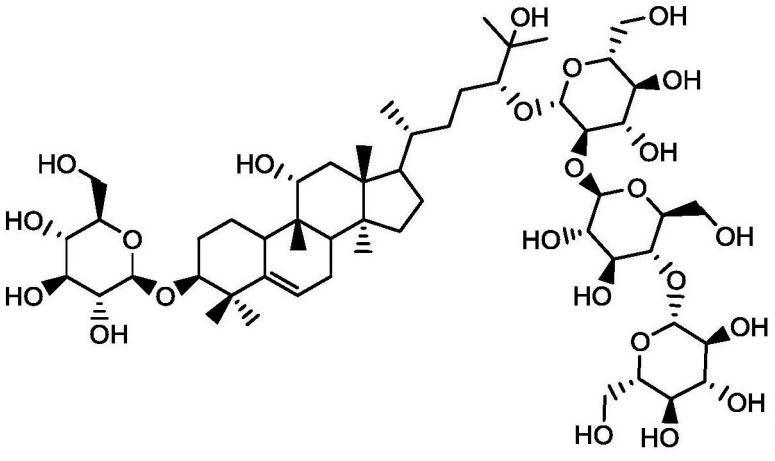
[0683] 一些实施方案提供了制备化合物12的化合物的方法，

[0684] 

(12)，

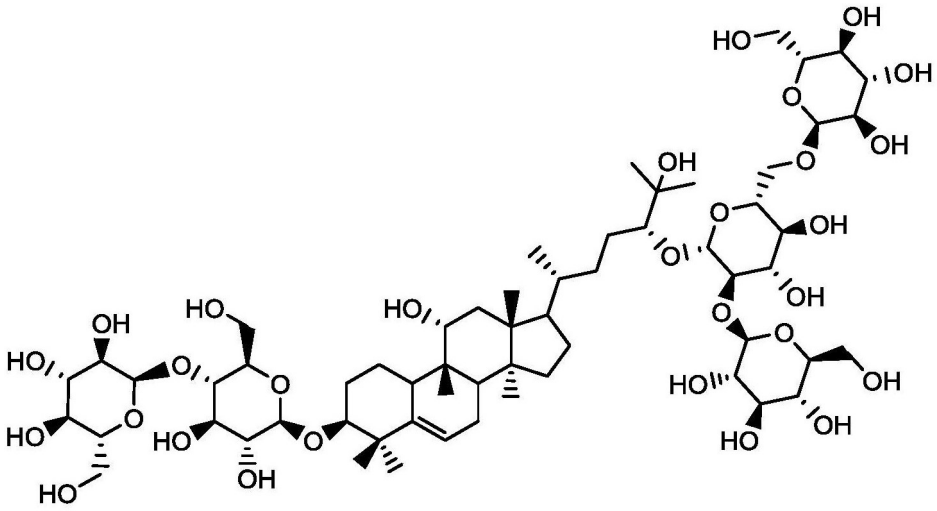
[0685] 包括将罗汉果苷VI用来自贝克酵母的转化酶处理。

[0686] 一些实施方案提供了制备化合物13的化合物的方法，

[0687] 
(13),

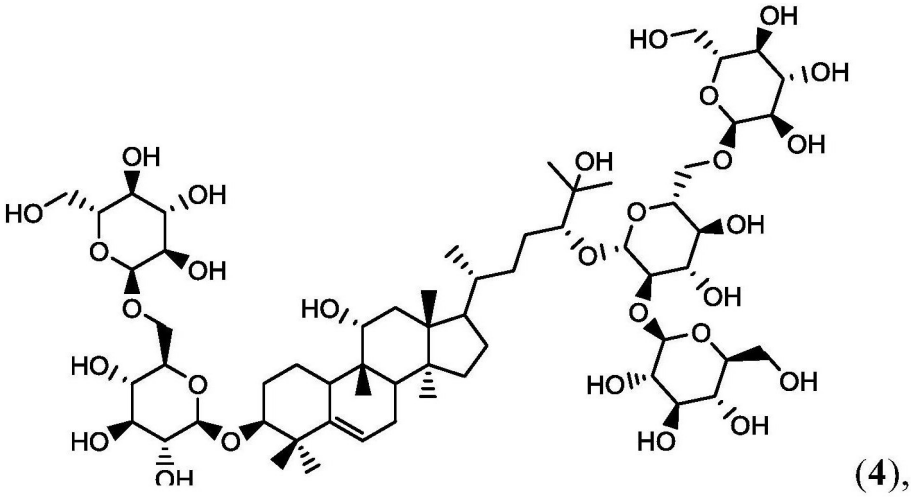
[0688] 包括将罗汉果苷III_E在存在α乳糖下用纤维素酶处理。

[0689] 一些实施方案提供了制备化合物5的化合物的方法，

[0690] 
(5),

[0691] 包括将罗汉果苷III_E在存在淀粉下用环状糊精葡聚糖转移酶处理。

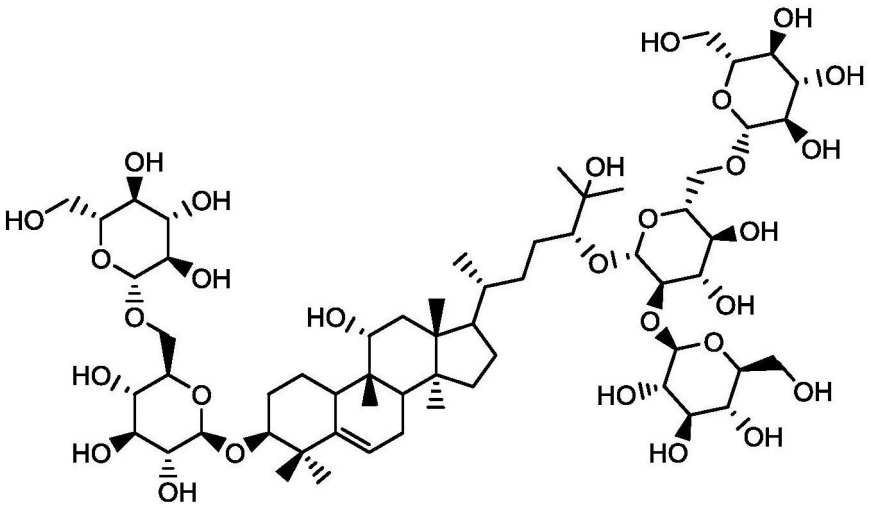
[0692] 一些实施方案提供了制备化合物4的化合物的方法，

[0693] 
(4),

[0694] 包括将罗汉果苷III_E在淀粉存在下用环状糊精葡聚糖转移酶处理。

实施例

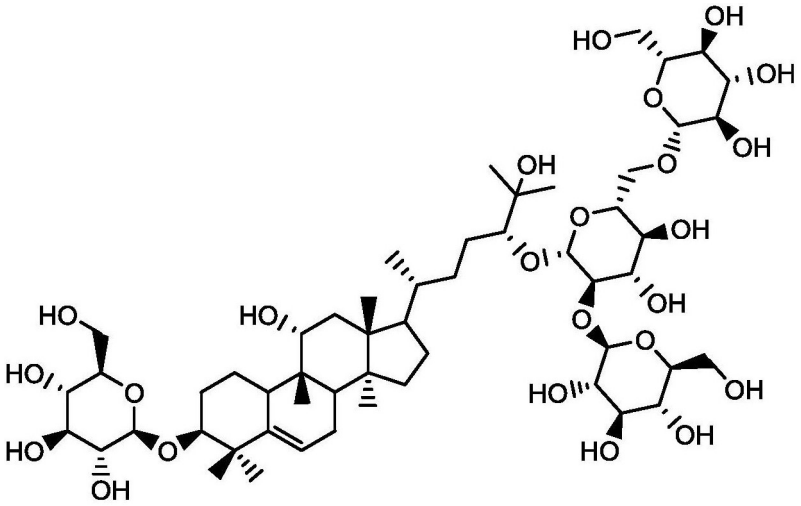
[0695] 实施例1:罗汉果苷V的分离

[0696] 

[0697] 罗汉果的粉末提取物(罗汉果(Fructus momordicae)提取物,50%罗汉果苷,浅黄色粉末)得自Xi'an Heking Bio-tech Co.,Ltd。将约1.00g的样品仔细地称重并且溶解于7.0mL的水中,并且分成2份相等的注射剂。以这种方式使用总重量为30.0g的罗汉果提取物制作总计60份注射剂。在Waters自动纯化系统上使用Atlantis T3C_{18}柱(5X 10cm)并使用ACN/水梯度来完成纯化。方法为:t=0min,1%,50mL/min→t=0.75min,1%,100mL/min;t=2.00min,1%,100mL/min;t=2.10min,10%,100mL/min;t=30.1min,30%,100mL/min;t=30.2min,95%,100mL/min;t=35.2min,95%,100mL/min;t=35.3min,1%,100mL/min;t=42.3min,1%,100mL/min,收集20.0min至30.8min.(36个级分,各自30mL)。期望的化合物在级分16和17中洗脱。将这些级分合并,并且通过旋转蒸发或者在Genevac HT12/HT24上去除溶剂。将干燥的合并样品再悬浮于15mL的水中,并且将其在Genevac HT12/HT24上再次干燥,然后冻干约2天以得到8.15g的纯的罗汉果苷V,为白色结晶固体,具有≥95%的纯度。

[0698] ^{1}H NMR(400MHz,吡啶-d_5),选择的信号:δ5.48(d,J=7.8Hz,2H,6-H&G3-1-H),5.19(d,J=7.7Hz,1H,G1-1H),4.93(d,J=8.0Hz,2H,G2&G4-1-H),4.89(d,J=7.6Hz,1H,G5-1-H),3.79-3.74(m,1H,24-H),3.69(brs,1H,3-H),1.53(s,3H,29-Me),1.46(s,3H,27-Me),1.34(s,6H,26and 28-Me),1.09(d,J=7.4Hz,3H,21-Me),1.07(s,3H,19-Me),0.92(s,6H,18&30-Me):通过吡啶-d_5样品中的D_2O交换来鉴定可交换质子。ESIMS 1285.86$(M-H)^-$。

[0699] 实施例2:赛门苷I的分离和酶促产生

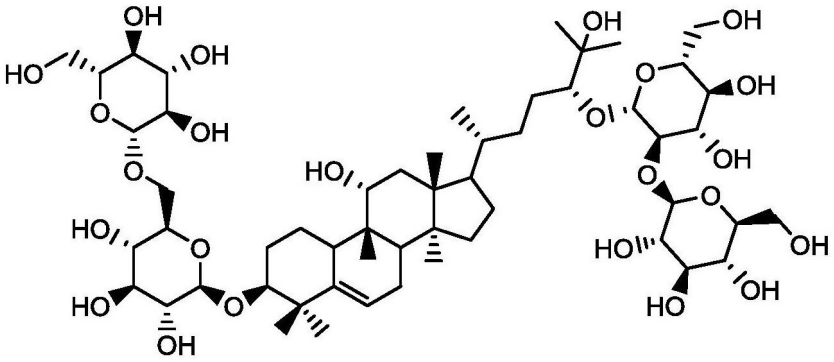
[0700] 

[0701] 分离:将得自Xi'an Heking Bio-tech Co.,Ltd.的100g罗汉果粉末提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上通过使用10%→30%B的A/B梯度(A=水,B=乙腈)的200份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分21中洗脱。将合并的级分21(3.3g)使用15%→30%B的A/B梯度(A=水,B=乙腈)在氟-苯基HPLC柱(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上于47个运行中进一步分级,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于10mL的水中,并且冻干以得到具有95%纯度的2.14g蓬松白色固体。

[0702] 酶水解:向250mL锥形烧瓶添加2g罗汉果苷V、100mL 0.1M乙酸钠缓冲液pH5.0和来自棘孢曲霉(Aspergillus aculeatus)的1mL果胶酶,并且在30℃下摇动烧瓶。通过LC-MS定期地监测反应进程。16小时后,将反应通过在80℃下加热30分钟来终止,并且以4000rpm离心10分钟。将上清液在减压下干燥,并且使用标准5/35/70/100MeOH:H_2O分步梯度在60g C18柱上分级。将期望的产物在70%MeOH级分中进行洗脱。将70%SPE frxn(2g)使用10%至30%B的A/B梯度(A=水,B=乙腈)在反相-HPLC柱(3×10cm Atlantis T3OBD柱,5um,Waters)上进一步纯化,持续30分钟,以95%B洗涤,然后以10%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分经8份注射剂收集在12个管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于2mL的水中,并且冻干以得具有约90%纯度的283mg白色蓬松固体。

[0703] ^1H NMR(400MHz,吡啶-d_5),选择的信号:δ5.48(m,2H,6&G3-1-H),4.93(d,J=7.9Hz,1H,G1-1-H),4.89(m,2H,G2&G4-1-H),3.76(d,J=7.9Hz,1H,24-H),3.66(d,J=2.7Hz,1H,3-H),1.56(s,3H,29-Me),1.46(s,3H,27-Me),1.34(s,6H,26&28-Me),1.12(s,3H,19-Me),1.07(d,J=6.3Hz,3H,21-Me),0.92(s,6H,18&30-Me);ESI-MS,1123.83$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

[0704] 实施例3:罗汉果苷IV_E的分离和酶促产生

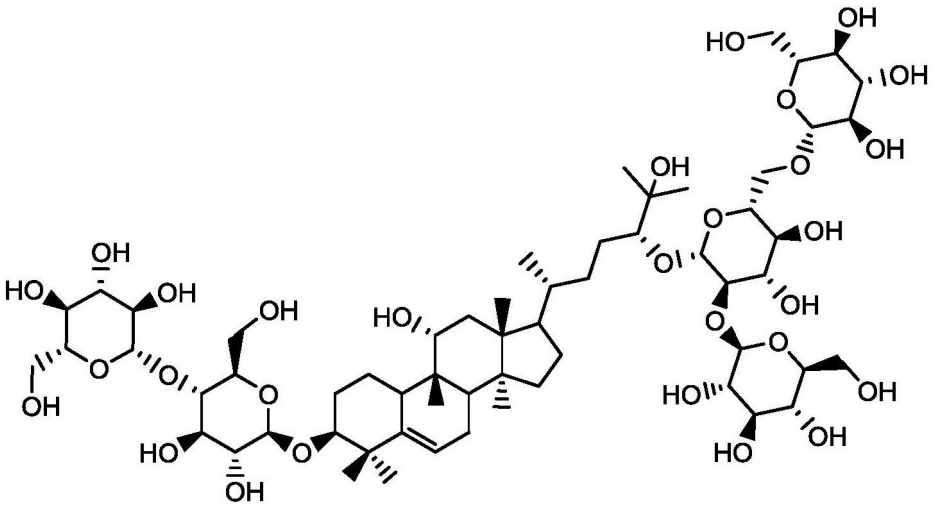
[0705] 

[0706] 分离:将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)通过使用10%→30%B的A/B梯度(A=水+0.1%甲酸,B=乙腈)的22份注射剂在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分25中洗脱。将合并的级分25(275mg)使用15%→30%B的A/B梯度(A=水,B=乙腈)在氟-苯基HPLC(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上于4个运行中进一步分级,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中,并且冻干以得到具有≥95%纯度的140mg蓬松白色固体。

[0707] 酶水解:向250mL锥形烧瓶添加2g罗汉果苷V、100mL 0.1M乙酸钠缓冲液pH5.0和来自棘孢曲霉的1mL果胶酶,并且在30℃下摇动烧瓶。通过LC-MS定期地监测反应进程。16小时后,将反应通过在80℃下加热30分钟来终止,并且以4000rpm离心10分钟。将上清液在减压下干燥并且使用标准5/35/70/100MeOH:H_2O分步梯度在60g C18柱上分级。将期望的产物在70%MeOH级分中进行洗脱。将70%SPE frxn(2g)使用10%至30%B的A/B梯度(A=水,B=乙腈)在反相-HPLC柱(3X 10cm Atlantis T3OBD柱,5um,Waters)上进一步纯化,持续30分钟,以95%B洗涤,然后以10%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分经历8份注射剂收集在12个管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于2mL水中,并且冻干以得到具有约90%纯度的232mg白色蓬松固体。

[0708] ^1H NMR(400MHz,吡啶-d_5),选择的信号:δ5.42(1H,与HDO峰融合),5.35(d,J=7.8Hz,1H),5.11(d,J=7.8Hz,1H),5.01(d,J=7.8Hz,1H),4.77(d,J=7.9Hz,1H),3.66(s,1H),1.46(s,6H),1.41(s,3H),1.29(s,3H),1.07(s,3H),1.02(d,J=6.3Hz,3H),0.83(s,3H),0.82(s,3H);ESI-MS 1147.6$(M+Na)^+$,1123.80$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

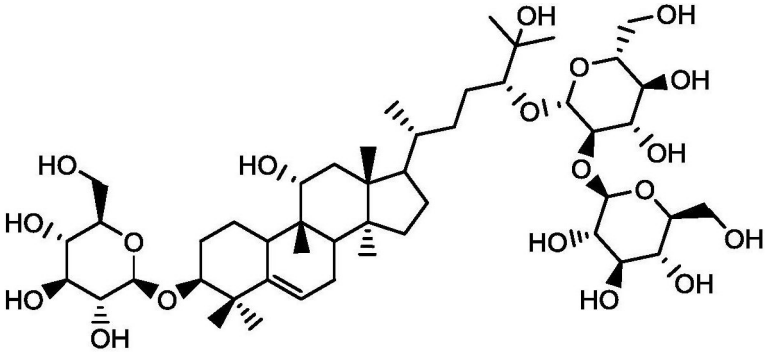
[0709] 实施例4:异罗汉果苷V的分离

[0710] 

[0711] 将得自Xi'an Heking Bio-tech Co.,Ltd.的180g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水,B=乙腈)通过360份注射剂在C18HPLC(5×10cmAtlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分19中洗脱。将合并的级分19(3.6g)使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic HPLC柱(3×10cm,Xbridge酰胺柱,5um,Waters)上于49个运行中进一步分级,持续22分钟,以95%A洗涤,然后以80%再平衡(总运行时间=30.3分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1板/运行)。级分8和级分9含有期望的产物,并且将其合并,在减压下浓缩,然后添加5mL H_2O,并且将样品冻干72小时以得到具有95%纯度的约1.05g蓬松白色固体。

[0712] ^1H NMR(400MHz,甲醇-d_4),选择的信号:δ5.49(d,J=6.0Hz,1H,6-H),4.78(d,J=7.7Hz,1H,G1-1H),4.44(d,J=7.3Hz,1H,G2-1H),4.41(d,J=7.8Hz,1H,G3-1H),4.31(d,J=7.8Hz,1H,G4-1H),4.28(d,J=7.8Hz,1H,G5-1H),1.19(s,3H,29-Me),1.15(s,3H,27-Me),1.11(s,6H,26&19-Me),1.08(s,3H,28-Me),0.98(d,J=6.1Hz,3H,21-Me),0.92(s,3H,30-Me),0.89(s,3H,18-Me);ESI-MS 1285.67(M-H)$^-$;分子式,$C_{60}H_{102}O_{29}$。

[0713] 实施例5:罗汉果苷III_E的分离和酶促产生

[0714] 

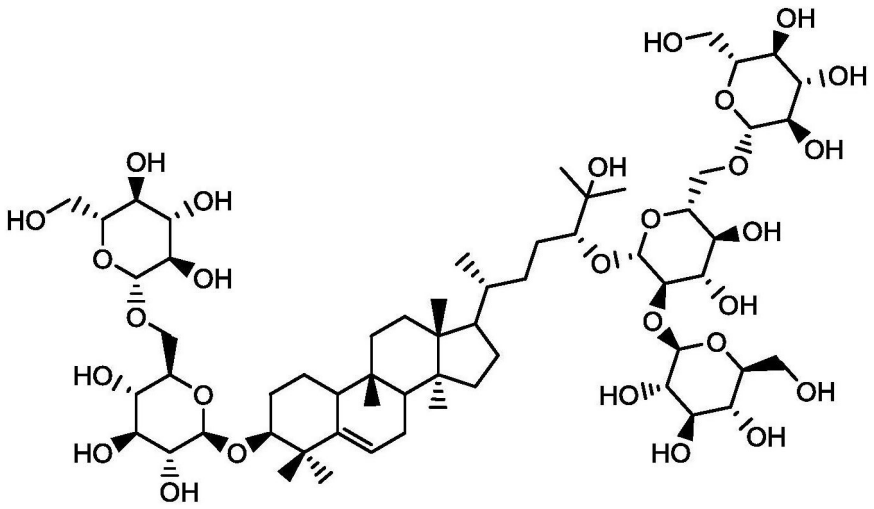
[0715] 分离:将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水+0.1%甲酸,B=乙腈)通过22份注射剂在C18HPLC(5X 10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持

续30分钟，以95％B洗涤，然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板，3个板/运行)。将板在Genevac HT12/HT24中干燥(批次1)。将流动相有微小改变的(A＝水，B＝乙腈)相同HPLC条件用于分级另外14g粉末，并且将级分在Genevac HT12/HT24上干燥(批次2)。将期望的化合物连同其他的异构体在级分30中洗脱。将来自批次1和批次2的合并级分30(204mg)使用15％→30％B的A/B梯度(A＝水，B＝乙腈)在氟-苯基HPLC柱(3×10cm，XSELECT氟-苯基OBD柱，5um，Waters)上于4个运行中进一步分级，持续35分钟，以95％B洗涤，然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板，1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并，并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中并且冻干，以得到具有≥95％纯度的80mg蓬松白色固体。

[0716] 酶水解：向2L锥形烧瓶添加100g罗汉果苷50％粉末(罗汉果提取物，50％罗汉果苷，浅黄色粉末；来自Xi'an Heking Bio-tech Co.,Ltd.)、1L 0.1M乙酸钠缓冲液pH5.0和来自棘孢曲霉的30mL果胶酶(来自Sigma，编号#E6287)，并且在振动器烘箱中于50℃下摇动烧瓶。通过LC-MS分析监测反应进程。24小时后，将反应通过在80℃下加热烧瓶30分钟来终止，并且以4000rpm离心10分钟以去除未反应的酶沉淀。将上清液在减压下干燥，并且使用标准5/35/70/100MeOH:H_2O梯度于多个运行(各个运行样品约10g)中在400g C18柱上分级。将期望的罗汉果苷III_E在70％MeOH级分中进行洗脱，并且合并所有的运行样品以得到60g富集的级分。将约19g的70％MeOH级分在RP-HPLC上使用C18HPLC(5×10cm Atlantis T3OBD柱，5um，Waters)并且使用10％-30％B的A/B梯度(A＝水，B＝乙腈)于21个运行中进一步纯化，持续30分钟，以95％B洗涤，然后以10％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个管中(12个级分/板，3个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并，并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于20mL水中并且冻干，以得到具有≥95％纯度的4.41g蓬松白色固体。

[0717] ^1H NMR(400MHz，吡啶-d_5)，选择的信号：δ5.48(m，1H，6-H)，5.35(d，J＝7.7Hz，1H，G2-1H)，5.10(d，J＝7.7Hz，1H，G1-1H)，4.91(d，J＝7.8Hz，1H，G3-1H)，3.93(m，1H，24-H)，3.68(s，1H，3-H)，1.57(s，1H，26-Me)，1.50(s，1H，29-Me)，1.46(s，3H，27-Me)，1.33(s，3H，19-Me)，1.14(s，3H，28-Me)，1.06(d，J＝6.3Hz，3H，21-Me)，0.89(s，3H，30-Me)，0.88(s，3H，18-Me)；ESI-MS 985.59$(M+Na)^+$，961.71$(M-H)^-$；分子式，$C_{48}H_{82}O_{19}$。

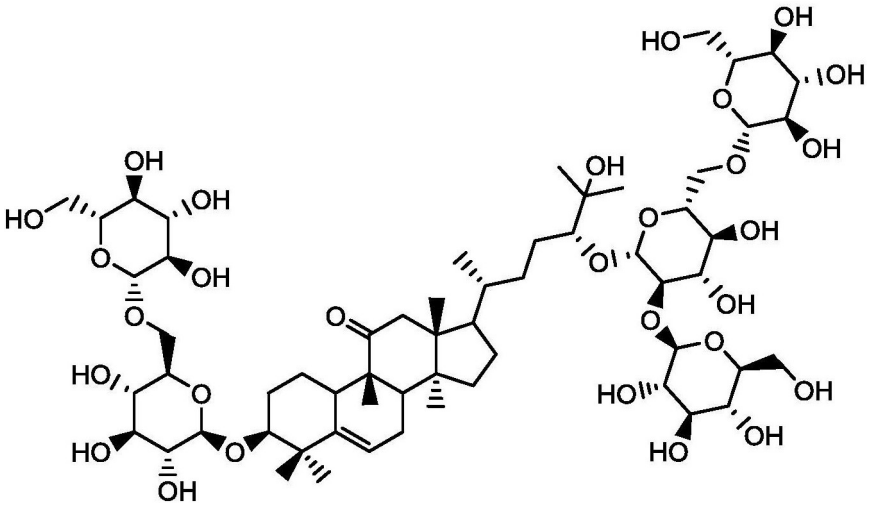
[0718] 实施例6：11-脱氧-罗汉果苷V的分离

[0719] 

[0720] 将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)使用10％→30％B的A/B梯度(A＝水+0.1％甲酸,B＝乙腈)通过22份注射剂在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥(批次1)。将流动相有微小改变的(A＝水,B＝乙腈)相同HPLC条件用于分级另外14g粉末,并且将级分在Genevac HT12/HT24上干燥(批次2)。将期望的化合物连同其他的少数异构体在两个批次的级分32和级分33中洗脱。将合并的级分32和级分33(275mg;溶解于3mL H_2O中)使用15％→30％B的A/B梯度(A＝水,B＝乙腈)在氟-苯基柱(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上于4个HPLC运行中进一步纯化,持续35分钟,以95％B洗涤,然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中并且冻干,以得到具有≥95％纯度的140mg蓬松白色固体。

[0721] ^1H NMR(400MHz,吡啶-d_5),选择的信号:δ5.49(d,J＝7.7Hz,1H,G3-1-H)),5.45(m,1H,6-H),5.23(d,J＝7.7Hz,1H,G5-1-H),4.94(m,1H,G1-1-H),4.89(m,1H,G2-1-H),4.84(d,J＝7.8Hz,1H,G4-1-H),3.78(m,1H,H-24),3.70(brs,1H,H-3),1.52(s,3H,27-Me),1.47(s,3H,29-Me),1.36(s,3H,26-Me),1.09(d,J＝6.2Hz,3H,21-Me),1.04(s,3H,28-Me),0.89(s,3H,19-Me),0.84(s,3H,18-Me),0.80(s,3H,30-Me).ESI-MS 1293.8$(M+Na)^+$,1269.8$(M-H)^-$;分子式,$C_{60}H_{102}O_{28}$。

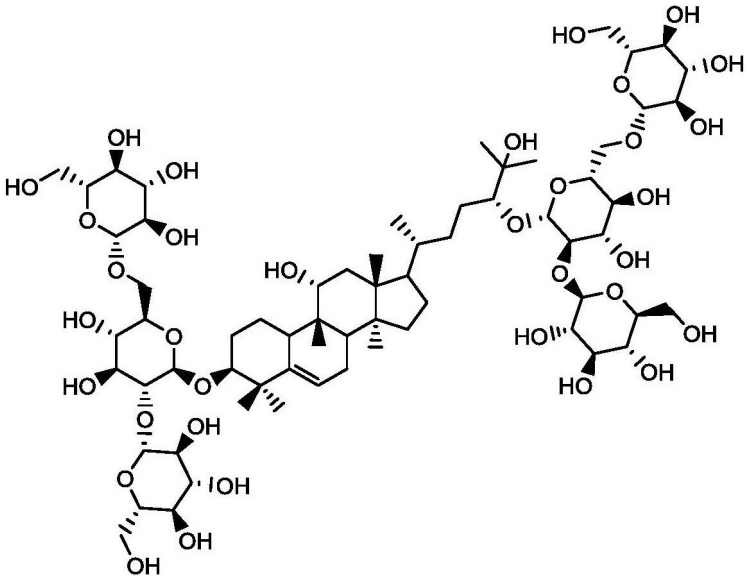
[0722] 实施例7:11-氧代-罗汉果苷V的分离

[0723] 

[0724] 将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)使用10％→30％B的A/B梯度(A＝水+0.1％甲酸,B＝乙腈)通过22份注射剂在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他异构体在级分12中洗脱。将合并的级分12(582mg)使用15％→30％B的A/B梯度(A＝水,B＝乙腈)在氟-苯基HPLC柱(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上于6个运行中进一步分级,持续35分钟,以95％B洗涤,然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以30mL/级分收集在12配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中并且冻干,以得到具有95％纯度的209mg蓬松白色固体。

[0725] ^{1}H NMR(400MHz,吡啶-d_5),选择信号:δ5.52(d,J＝7.8Hz,1H,H-6),5.47(d,J＝6.0Hz,1H,G3-1-H),5.17(d,J＝7.8Hz,1H,G1-1-H),4.88(d,J＝7.8Hz,1H,G5-1-H),4.82(d,J＝7.8Hz,1H,G2-1-H),3.76(m,1H,24-H),3.67(s,1H,3-H),1.52(s,3H,26-Me),1.46(s,3H,29-Me),1.35(s,3H,27-Me),1.18(s,3H,28-Me),1.03(s,3H,19-Me),1.02(d,J＝6.7Hz,3H,21-Me),1.00(s,3H,30-Me),0.74(s,3H,18-Me);ESI-MS 1307.45$(M+Na)^+$,1283.81$(M-H)^-$;分子式,$C_{60}H_{100}O_{29}$。

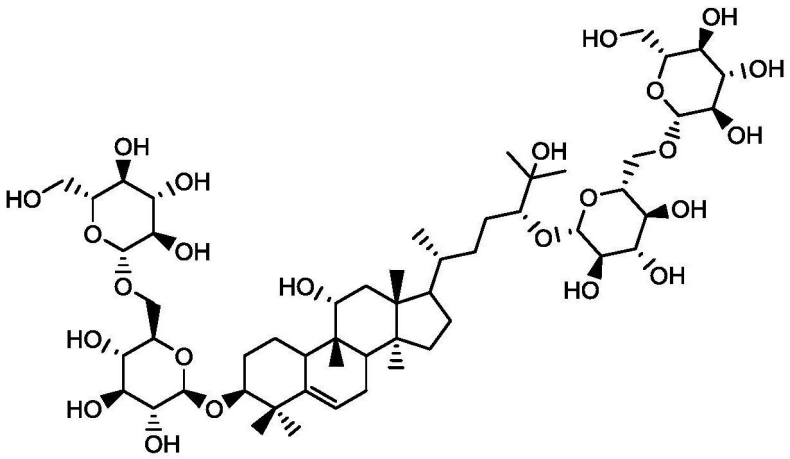
[0726] 实施例8:罗汉果苷VI的分离

[0727] 

[0728] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80.2g罗汉果粉末提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水,B=乙腈)通过160份注射剂在C18HPLC(5×10cmAtlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分14中洗脱。将合并的级分14(1.24g)使用70%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上于29个运行中进一步分级,持续21分钟,然后以70%再平衡(总运行时间=30.5分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分7含有期望的产物并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干48小时以得到具有约85%纯度的约358mg蓬松白色固体。

[0729] ^1H NMR(400MHz,吡啶-d_5),选择的信号:δ5.5(m,1H,G3-1H,与HDO峰融合),5.42(m,1H,6-H),5.19(m,2H,G6&G2-1H),4.88(d,J=7.8Hz,1H,G4-1H),4.83(m,2H,G1-1H),4.77(d,J=7.7Hz,1H,G5-1H),3.69(d,J=8.8Hz,1H,24-H),1.48(s,3H,29-Me),1.42(s,3H,27-Me),1.28(s,3H,26-Me),1.25(s,3H,19-Me),1.09(s,3H,28-Me),1.02(d,J=6.2Hz,3H,21-Me),0.85(s,3H,30-Me),0.82(s,3H,18-Me);ESI-MS 1471.51$(M+Na)^+$,1447.83$(M-H)^-$;分子式,$C_{66}H_{112}O_{34}$。

[0730] 实施例9:罗汉果苷IV_A的分离和酶促产生:

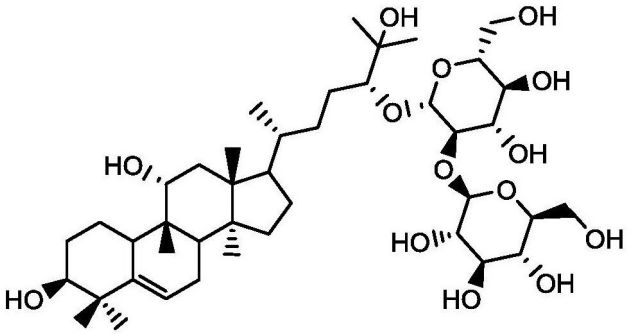
[0731] 

[0732] 酶促的:向250-mL圆底烧瓶添加500mg纯的罗汉果苷V、50mL水、1mL 1M pH 8.0磷酸盐缓冲液、2g乳糖和来自米曲霉(Aspergillus Oryzae)的500mgβ-半乳糖苷酶(来自Sigma,编号#G5160),并且将烧瓶在37℃下搅拌。通过LC-MS每小时监测反应进程。3小时后,将反应用40mL乙醇淬灭,然后以4000rpm离心10分钟。将上清液在减压下干燥,并且使用标准5/35/70/100MeOH:H_2O梯度在SPE上分级。将期望的罗汉果苷IV_A在70%甲醇级分中进行洗脱。将70%SPE级分使用氟-苯基HPLC(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)并且使用15%→30%B的A/B梯度(A=水,B=乙腈)在RP-HPLC上进一步纯化,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中并且冻干,以得到具有≥95%纯度的135.9mg蓬松白色固体。

[0733] 分离:将得自Xi'an Heking Bio-tech Co.,Ltd.的100g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水,B=乙腈)通过200份注射剂在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在frxn 22中洗脱。将合并的frxn 22(947mg)使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上于24个运行中进一步分级,持续22分钟,以95%A洗涤,然后以80%再平衡(总运行时间=30.3分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。级分7含有期望的产物并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干2天以得到具有约85%纯度的155mg蓬松白色固体。

[0734] ^1H NMR(400MHz,吡啶-d_5),选择的信号:δ5.49(d,J=6.0Hz,1H,6-H),5.19(d,J=7.7Hz,1H,G4-1-H),4.93(m,1H,G1-1-H),4.87(m,2H,G2&G3-1-H),3.78(brd,J=9.2Hz,1H,24-H),3.73(s,1H,3-H),1.54(s,3H,29-Me),1.46(s,3H,26-Me),1.33(s,6H,19&27-Me),1.12(m,3H,28-Me),0.94(d,J=6.5Hz,3H,21-Me),0.92(s,3H,18-Me),0.84(s,3H,30-Me);ESI-MS 1147.32$(M+Na)^+$,1123.66$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

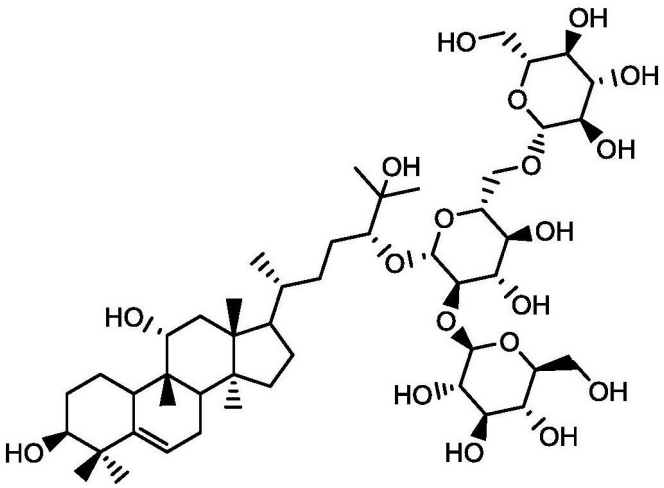
[0735] 实施例10:由纤维素酶酶促产生罗汉果苷II_A

[0736] 

[0737] 向250-mL带挡板的烧瓶添加1g粗制罗汉果苷III_E、53mL水、15mL 1M乙酸钠缓冲液pH 5、来自Novozymes的7ml纤维素酶以及75gα-乳糖，并且将烧瓶以220rpm在50℃下摇动9天。通过LC-MS定期地监测反应进程。针对两批总计18g的罗汉果苷III_E，将相同的反应再重复17次。9天后，在SPE纯化之前，将来自反应混合物的未反应的酶和过量的乳糖在以下三个步骤中去除。将反应混合物以5000rpm离心约10min以去除过量的乳糖，然后在80℃下孵育30min，并且以500rpm进行磁力搅拌。再添加约10％的NH_4SO_4溶液以使未反应的酶和糖沉淀，然后以5000rpm离心10min，并且去除沉淀。将上清液通过0.22μm PES过滤，并且负载至400g SPE C18柱上，并且使用标准5/35/70/100MeOH:H_2O梯度分级。将期望的化合物在70％甲醇级分中进行洗脱。将合并的70％SPE级分(12g)使用PF柱并且使用15％至30％B的A/B梯度(A＝水，B＝乙腈)在RP-HPLC上进一步纯化，持续35分钟，以95％B洗涤，然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以7.5mL/级分在2个收集窗(每个收集窗36个级分)中收集在72个管中(12个级分/板，6个板/运行)。级分61-66含有期望的峰并且具有期望的纯度(≥95％)，并且基于UPLC分析进行合并，并且在减压下干燥以得到530mg白色粉状固体。将150mg的子样品进行称重，溶解于2mL H_2O中，并且冻干3天以得到白色蓬松固体。

[0738] ^1H NMR(400MHz，吡啶-d_5)，选择的信号：δ5.58(d，J＝6.0Hz，1H，6-H)，5.36(d，J＝7.9Hz，1H，G2-1H)，5.00(d，J＝7.8Hz，1H，G1-1H)，3.88(d，J＝7.2Hz，1H，24-H)，3.69(d，J＝3.0Hz，1H，3-H)，1.46(s，3H，27-Me)，1.41(s，3H，26-Me)，1.38(s，3H，29-Me)，1.33(s，3H，19-Me)，1.14(s，3H，28-Me)，1.02(d，J＝6.4Hz，3H，21-Me)，0.89(s，3H，30-Me)，0.84(s，3H，18-Me)；ESI-MS 823.56$(M+Na)^+$，799.6$(M-H)^-$；分子式，$C_{42}H_{72}O_{14}$。

[0739] 实施例11：由Aromase酶促产生罗汉果苷III_{A1}

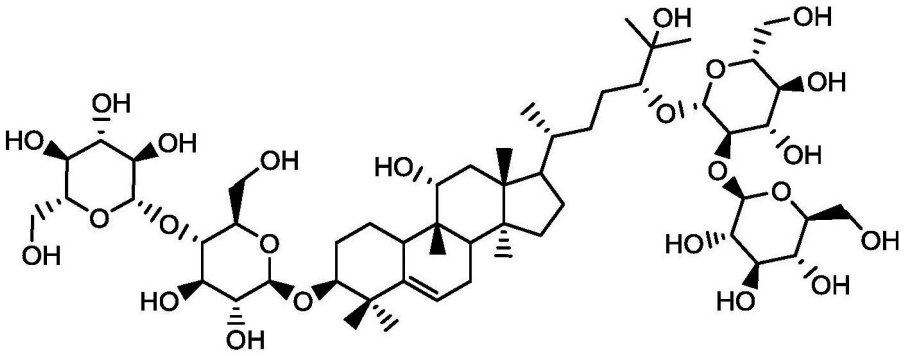
[0740] 

[0741] 将10mg赛门苷I溶解于1mL 0.1M Mcilvaine缓冲液(柠檬酸盐/磷酸盐缓冲系统，

其可以在容量上设置2.2至8的宽范围的pH)pH 3.4并且将5mg Aromase添加至96孔nunc板的35个孔(总计350mg赛门苷I),并且在50℃下搅拌。在35个单独的反应中,通过LC-MS定期地监测其中的数个。6小时后,将所有的反应在烧瓶中合并,用等量的乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥,并且使用5/35/70/100/5MeOH:H_2O梯度在60g SPE柱上分级。将期望的产物在70%和100%MeOH级分中进行洗脱,并且使用15%至30%B的A/B梯度(A=H_2O,B=乙腈)在氟-苯基3x10cm柱上进一步纯化,持续35分钟,然后进行95%B洗涤和再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。级分11-12含有期望的产品,并且进行合并,在减压下干燥,并且再悬浮于5mL H_2O中,以得到具有≥90%纯度的100mg白色蓬松粉末。

[0742] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号δ5.59(d,J=6.1Hz,1H,6-H),5.51(d,J=7.8Hz,1H,G2-1H),4.84(m,1H,G1-1H),4.79(d,J=7.7Hz,1H,G3-1H),3.71(d,J=9.0Hz,1H,24-H),3.68(d,J=3.1Hz,1H,3-H),1.43(s,3H,26-Me),1.38(s,3H,28-Me),1.34(s,3H,19-Me),1.29(s,3H,27-Me),1.14(s,3H,29-Me),1.04(d,J=6.4Hz,3H,21-Me),0.94(s,3H,30-Me)以及0.87(s,3H,18-Me);ESI-MS;961.34(M-H)$^-$;分子式,$C_{48}H_{82}O_{19}$。

[0743] 实施例12:化合物1的分离

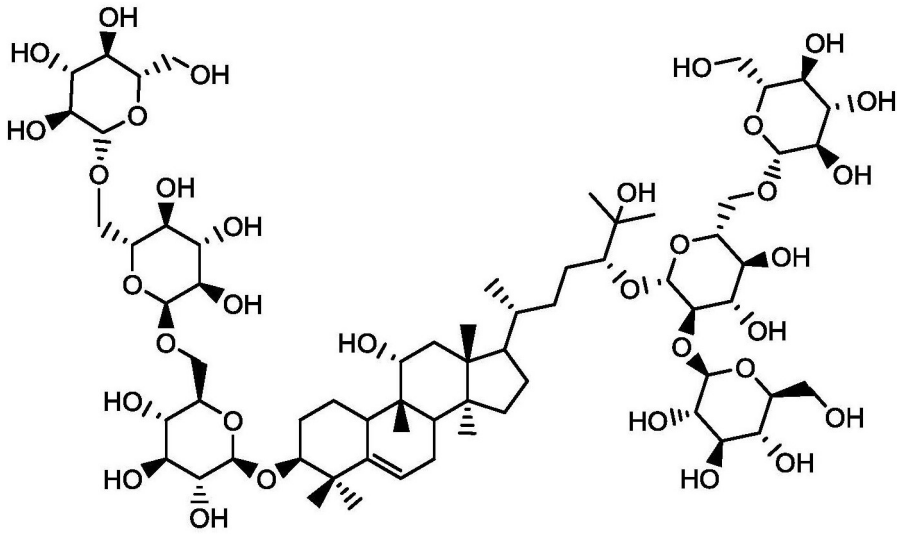
[0744] 

[0745] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80.2g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水,B=乙腈)通过160份注射剂在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分27中洗脱。将合并的级分27(223mg)使用15%→30%B的A/B梯度(A=水,B=乙腈)在氟-苯基HPLC(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上于7个运行中进一步分级,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水,并且冻干以得到40.9mg蓬松白色固体。

[0746] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.37(s,1H,6-H),5.35(d,J=7.8Hz,1H,G2-1-H),5.14(d,J=7.9Hz,1H,G4-1-H),5.00(d,J=7.7Hz,1H,G1-1-H),4.77(d,J=8.0Hz,1H,G3-1-H),3.57(s,1H,3-H),1.49(s,3H,29-Me),1.45(s,3H,27-Me),1.41(s,3H,26-Me),1.27(s,3H,19-Me),1.10(s,3H,28-Me),1.01(d,J=6.3Hz,3H,21-Me),0.84(s,3H,30-Me),0.83(s,3H,18-Me);^{13}C NMR(101MHz,吡啶)δ144.15,118.52,106.79,105.64,

104.77,102.24,88.77,87.95,82.95,81.30,78.43,78.37,78.32,77.98,77.91,77.80,76.54,76.11,75.88,74.74,72.44,71.92,71.29,71.11,63.07,62.29,62.20,62.00,50.70,49.64,47.35,43.46,42.30,40.82,40.07,40.04,36.70,36.62,34.49,33.78,28.57,28.49,27.63,26.90,26.76,26.24,25.48,24.52,19.37,19.04,17.00;ESI-MS 1147.74(M+Na)$^+$,1123.86(M-H)$^-$;分子式,$C_{54}H_{92}O_{24}$。

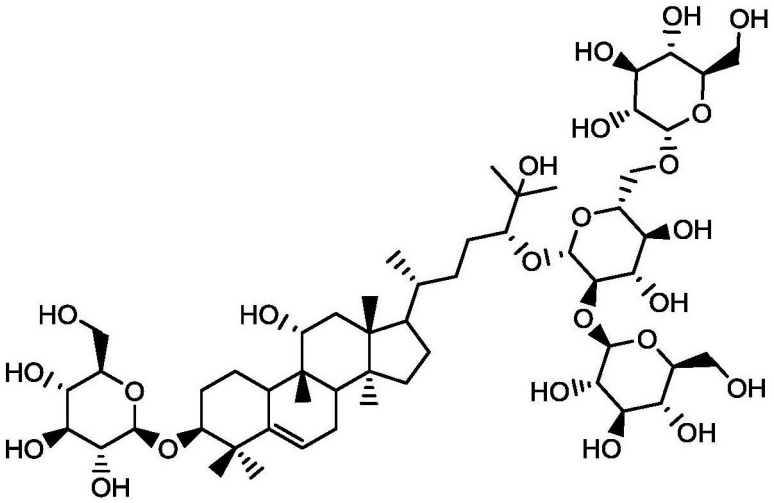
[0747] 实施例13:化合物2的分离

[0748] 

[0749] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80.2g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)使用10%→30%B的A/B梯度(A=水,B=乙腈)通过160份注射剂在C18HPLC(5×10cmAtlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分8中洗脱。在2g合并的级分8中,将其中220mg使用70%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上于5个运行中进一步纯化,持续21分钟,然后以70%再平衡(总运行时间=30.5分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1板/运行)。级分8含有期望的产物,并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干48小时以得到具有>90%纯度的109mg蓬松白色固体。

[0750] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.51(m,1H,G3-1H),5.45(m,1H,6-H;与HDO峰融合),5.38(d,J=3.7Hz,1H,G5-1H),5.10(d,J=7.8Hz,1H,G2or G6-1H),4.79(m,1H,G1-1H),4.75(d,J=7.8Hz,1H,G4-1H),4.70(m,1H,G2or G6-1H),3.69(d,J=8.4Hz,1H,24-H),3.63(s,1H,3-H),1.46(s,3H,29-Me),1.42(s,3H,26-Me),1.28(s,6H,27&19-Me),1.06(s,3H,28-Me),1.03(d,J=6.2Hz,3H,21-Me),0.88(s,3H,30-Me)以及0.84(s,3H,18-Me);ESI-MS1471.96(M+Na)$^+$,1447.17(M-H)$^-$;分子式,$C_{66}H_{112}O_{34}$。

[0751] 实施例14:化合物3的分离和酶促产生

[0752] 

[0753] 来自CGTase酶:向250mL锥形烧瓶添加500mg粗制罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉以及来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌(Bacillus lichenformis);Toruzyme 3.0L;编号#775700),并且将烧瓶在50℃下摇动。通过LC-MS定期地监测反应进程。24hr后,将反应通过在80℃下加热来终止,并且以4000rpm离心10分钟,以去除未反应的酶。将上清液在减压下干燥。将同样的反应再重复139次(总计70g的$MIII_E$)。将来自140个运行样品的合并的上清液使用400g C18柱和标准5/35/70/100/5MeOH:H_2O梯度在多重SPE运行上分级。将期望的产物连同其他少数异构体和未反应的$MIII_E$在70%MeOH SPE级分中洗脱。将合并的70%SPE级分(65g)使用反相条件在PF-HPLC上以每次约900mg注射在具有15%至30%B的A/B梯度(A=水,B=乙腈)的5x10cm柱上按73个运行来进行纯化,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=40分钟)。将各个运行样品以30mL/级分收集在36个管中(3个板/运行)。将期望的产物连同其他的少数MV和11-氧代-MIV异构体在具有约85-90%纯度的级分13至16中洗脱。将级分13至14(6.3g)与15至16(4.6g)的合并批次在HilicHPLC柱(3X 10cm,XBridge酰胺柱,5um,Waters)上通过每次注射约150mg使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)经由72个运行来进一步纯化,持续22分钟,以95%A洗涤,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分含有期望纯度的期望产物,将其进行合并,在减压下去除溶剂,再溶解于H_2O,并且将样品冻干约5天以得到具有≥95%纯度的4.86g白色蓬松固体。

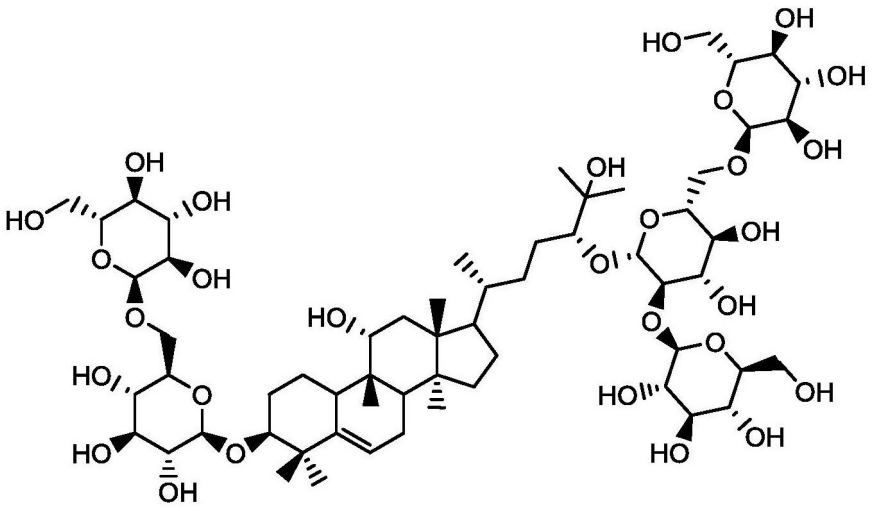
[0754] 来自葡聚糖蔗糖酶/葡聚糖酶:向3L摇瓶中添加100mL pH 5.5 1M乙酸钠缓冲液、200g蔗糖、100ml葡聚糖蔗糖酶DexT(1mg/ml粗制提取物,pET23a,BL21-Codon Plus-RIL,在2X YT中生长)、12.5g罗汉果苷III_E和600ml水,并且在30℃下以200rpm摇动烧瓶。通过LC-MS定期地监测反应进程。72h后,将反应用2.5mL葡聚糖酶(Amano)处理。在添加葡聚糖酶24h后,将反应通过在80℃下加热来淬灭,并且以5,000rpm离心5分钟,将上清液过滤并且负载至400gC18SPE柱上。将样品以5/25/50/75/100/5MeOH:H_2O分步梯度进行分级。将期望的产物在50%和75%MeOH级分中进行洗脱,并且使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic 3x10cm柱上进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,1个板/运行)。将含有具有期望纯度(F7)的期望产物级分进行合并,在减压下去除溶剂,再溶解于H_2O中,并

且将样品冻干约5天以得到具有≥95％纯度的3.1g白色蓬松固体。

[0755] 分离:以80g和100g的两个不同批次,将得自Xi'an Heking Bio-tech Co.,Ltd.的180g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末;样品ID:50755234)使用10％→30％B的A/B梯度(A＝水,B＝乙腈)通过360份注射剂C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同主要的赛门苷I和其他的少数异构体在frxn 20中洗脱。将来自两个批次(618mg和704mg)的合并的frxn 20使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC柱(3×10cm,Xbridge酰胺柱,5um,Waters)上于27个运行中进一步分级,持续22分钟,以95％A洗涤,然后以80％再平衡(总运行时间＝30.3分钟)。将各个运行样品以15mL/级分收集在24个级分中(12个级分/板,2个板/运行)。级分10含有期望的产物并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干2天以得到具有约85％纯度的103mg蓬松白色固体。

[0756] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,2H,6-H&G2-1H,与HDO峰融合),5.37(d,J＝3.7Hz,1H,G3-1H),4.86(d,J＝7.7Hz,1H,G1-1H),4.81(d,J＝7.8Hz,1H,G4-1H),3.72(m,1H,24-H),3.61(s,1H,3-H),1.49(s,3H,29-Me),1.42(s,3H,27-Me),1.30(s,3H,26-Me),1.27(s,3H,30-Me),1.09(s,3H,28-Me),1.01(d,J＝6.3Hz,3H,21-Me),0.87(s,3H,19-Me)以及0.84(s,3H,18-Me);ESI-MS1125.94$(MH)^+$,1123.92$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

[0757] 实施例15:化合物4的酶促产生

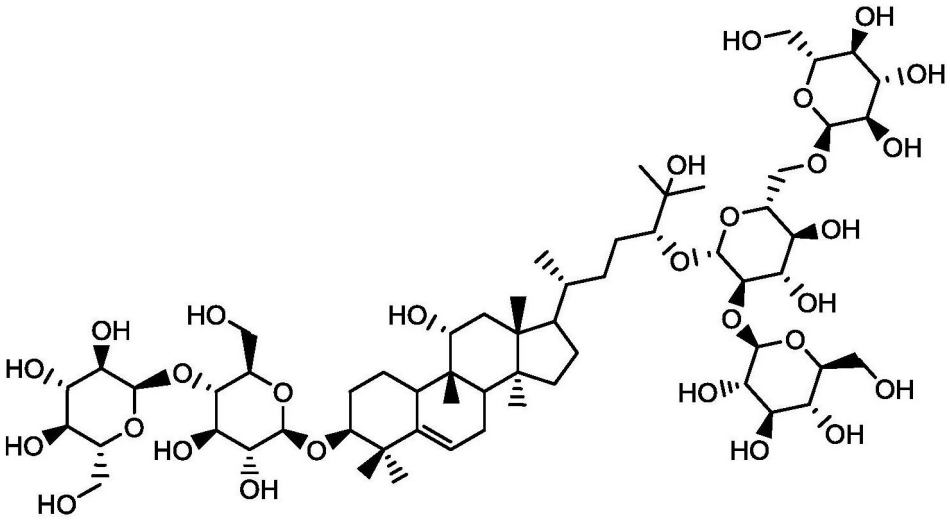
[0758] 

[0759] 向250mL圆底烧瓶添加500mg罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉以及来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L),并且将烧瓶在50℃下搅拌。通过LC-MS定期地监测反应进程。24h后,将反应用100mL乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥。将同样的反应再重复45次(约23g $MIII_E$由50％粉末与果胶酶的反应直接产生)并且干燥上清液。将来自46个反应的4个不同批次中处理的合并的上清液使用400g柱和标准5/35/70/100/5梯度在4个SPE运行上分级。将期望的产物连同主要的赛门苷异构体、其他少数异构体和未反应的$MIII_E$在70％SPE级分中洗脱。将来自4个批次的70％SPE级分(约30g)使用Hilic柱(3X

10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射200mg使用80％至20％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)按150个运行来进行分级,持续26分钟,然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以15mL/级分收集在24个级分中(12个级分/板,1个板/运行)。级分19含有期望的产物连同其他的MV异构体。将级分19(1g)合并,在减压下浓缩,并且使用具有低注射量(50mg)和收集体积(7.5mL/小瓶)的相同Hilic HPLC条件进一步纯化以分离MV异构体。将期望的化合物在级分8至10中洗脱。将其合并,在旋转蒸发仪/genevac上去除溶剂,添加2mL H_2O并且通过0.45um过滤器过滤,以及在冻干器上干燥样品以得到72mg约80％纯度的MV异构体。

[0760] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.46-5.40(m,3H,H-6,G2-1H&G5-1H;与HDO峰融合),5.28(d,J＝3.7Hz,1H,G3-1H),4.84(d,J＝7.8Hz,1H,G1-1H),4.82(d,J＝7.8Hz,1H,G4-1H),3.71(d,J＝8.0Hz,1H,24-H),3.61(s,1H,3-H),1.49(s,3H,28-Me),1.41(s,3H,26-Me),1.29(s,3H,27-Me),1.28(s,3H,19-Me),1.10(s,3H,29-Me),1.01(d,J＝5.9Hz,3H,21-Me),0.87(s,3H,30-Me),0.84(s,3H,18-Me);ESI-MS 1285.84$(M-H)^-$,分子式,$C_{60}H_{102}O_{29}$。

[0761] 实施例16:化合物5的酶生产

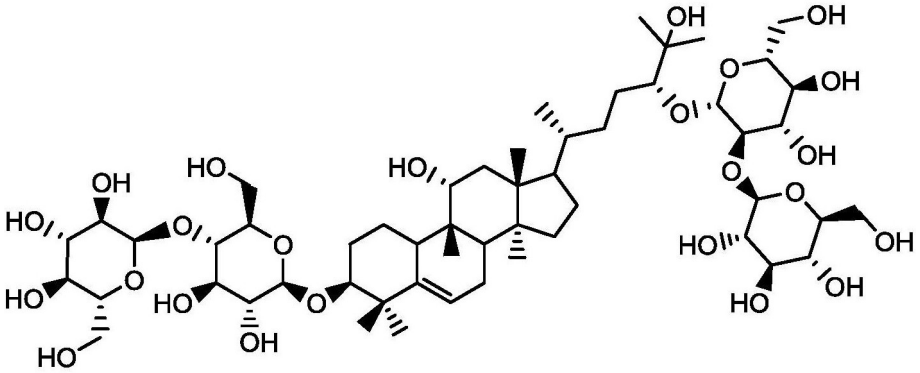
[0762] 

[0763] 向250mL圆底烧瓶添加500mg罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶(CGTase);地衣芽孢杆菌;Toruzyme 3.0L),并且在50℃下搅拌烧瓶。通过LC-MS定期地监测反应进程。24h后,将反应用100mL乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥。将相同的反应以4个不同批次再重复46次(由50％粉末与果胶酶的反应直接产生约23g $MIII_E$),并且以各个批次进一步处理。将来自各个批次的合并的上清液干燥,并且分别在四个SPE运行上使用400g柱和标准5/35/70/100/5梯度进行分级。将期望的产物连同主要的赛门苷异构体(结构ID:62071851)、其他少数的MIV、MV和MVI异构体以及未反应的$MIII_E$在70％SPE级分中洗脱。将来自4个批次的70％SPE级分(约26g)使用Hilic柱(3X 10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射200mg使用80％至20％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)按130个运行来分级,持续26分钟,然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以15mL/级分收集在24个级分中(12个级分/板,1个板/运行)。级分19含有期望的产物连同其他的MV异构体。将级分19(1g)合并,在减压下浓缩,并且使用具有低注射量(50mg)

和收集体积(7.5mL/瓶)的相同Hilic HPLC条件进一步纯化以分离MV异构体。将期望的化合物在级分4中洗脱。将其合并,在旋转蒸发仪/genevac上去除溶剂,添加2mL H_2O并且通过0.45um过滤器过滤,并且将样品在冻干器上干燥以得到70mg约90%纯度的MV异构体。

[0764] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.90(d,J=3.9Hz,1H,G5-1H),5.49(m,1H,G2-1H),5.46(m,1H,6-H,与HDO峰融合),5.34(d,J=3.6Hz,1H,G3-1H),4.78(m,2H,G1&G4-1H),3.65(m,1H,24-H),3.51(brs,1H,3-H),1.45(s,3H,28-Me),1.39(s,3H,27-Me),1.27(s,3H,19-Me),1.23(s,3H,26-Me),1.19(s,3H,29-Me),1.08(d,J=6.2Hz,3H,21-Me),1.00(s,3H,30-Me)&0.87(s,3H,18-Me);ESI-MS 1285.79(M-H)⁻;分子式,$C_{60}H_{102}O_{29}$。

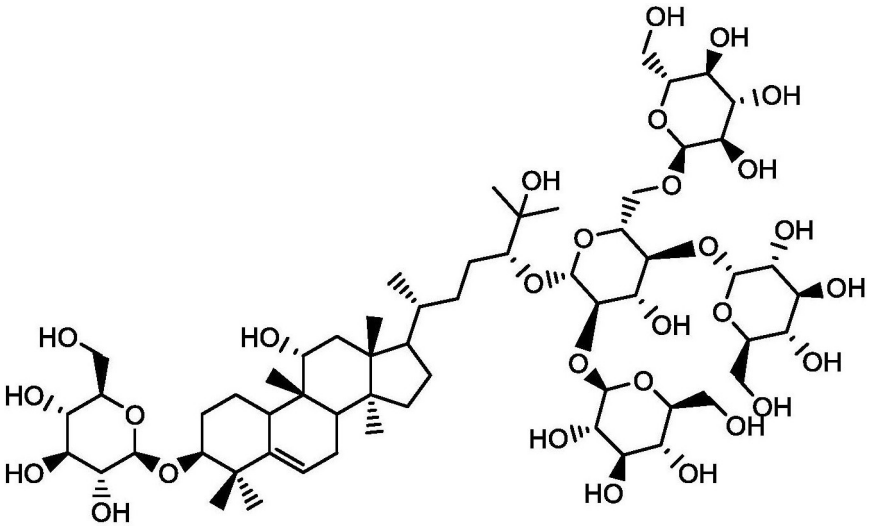
[0765] 实施例17:化合物6的酶促产生

[0766] 

[0767] 向250mL圆底烧瓶添加550mg罗汉果苷IIIE、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L),并且在50℃下搅拌。通过LC-MS定期地监测反应进程。24h后,将反应用100mL乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥。将相同的反应再重复21次(约12g MIIIE),并且干燥上清液。将来自22个反应的合并的上清液使用400g柱和标准5/35/70/100/5梯度在6个SPE运行上分级。将期望的产物连同其他少数异构体和未反应的MIIIE在70%SPE级分中洗脱。将合并的70%SPE级分(约14g)使用Hilic柱(3×10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射约150mg使用80%至20%B的A/B梯度(A=3:1MeOH:H2O,B=乙腈)按95个运行进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分5含有期望的产物连同其他的MIV异构体,包括赛门苷I异构体(结构ID:62071851)。将其合并,在减压下浓缩(1.07g),并且使用具有低注射量(55mg)和收集体积(15mL/瓶)的相同Hilic HPLC条件进一步纯化以分离MIV异构体。将期望的化合物作为主要的异构体在级分5中洗脱。将其合并,在旋转蒸发仪/genevac上去除溶剂,添加5mL H_2O并且通过0.45um过滤器过滤,并且将样品在冻干器上干燥以得到93mg约75%纯度的α-MIV异构体。

[0768] ^1H NMR(400MHz,吡啶-d5+D2O),选择的信号:δ5.94(d,J=3.8Hz,1H,G4-1H),5.42(m,1H,6-H,与HDO峰融合),5.36(d,J=7.8Hz,1H,G2-1H),5.01(d,J=7.8Hz,1H,G1-1H),4.77(d,J=7.8Hz,1H,G3-1H),3.88(d,J=7.9Hz,1H,24-H),3.58(s,1H,3-H),1.46(m,6H,26&28-Me),1.41(s,3H,27-Me),1.32(s,3H,19-Me),1.09(s,3H,29-Me),1.01(d,J=6.3Hz,3H,21-Me),0.84(brs,6H,18&30-Me);ESI-MS1123.63(M-H)-;分子式,C54H92O24。

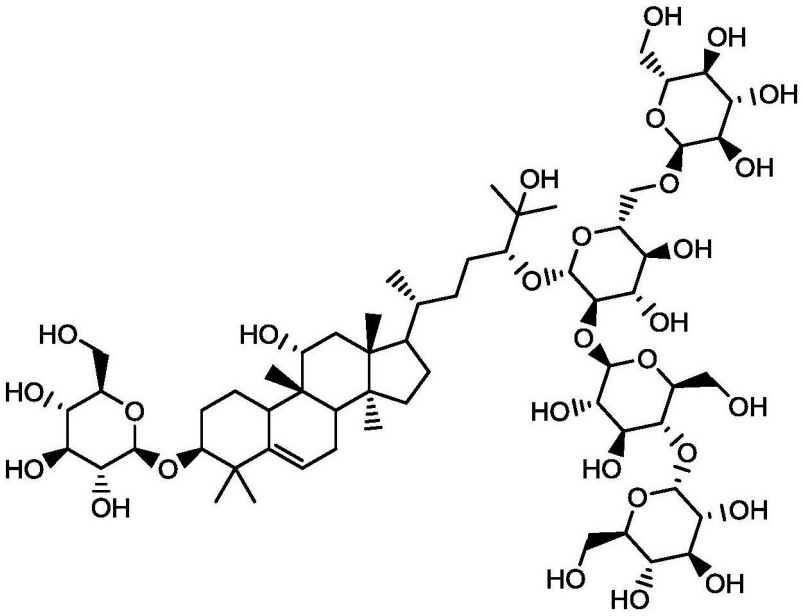
[0769] 实施例18:化合物7的酶促产生

[0770] 

[0771] 向250mL锥形烧瓶添加500mg粗制罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L;编号#775700),并且将烧瓶在50℃下摇动。通过LC-MS定期地监测反应进程。24h后,将反应通过在80℃下加热来终止,并且以4000rpm离心10分钟以去除未反应的酶。将上清液在减压下干燥。将同样的反应再重复139次(总计70g $MIII_E$)。将来自140个运行样品的合并的上清液使用400g C18柱和标准5/35/70/100/5MeOH:H_2O梯度在多重SPE运行上分级。将期望的产物连同其他的少量异构体和未反应的$MIII_E$在70%MeOH SPE级分中洗脱。将合并的70%SPE级分(65g)使用反相条件在PF-HPLC上以每次在5×10cm柱上注射900mg使用15%至30%B的A/B梯度(A=水,B=乙腈)按73个运行来进行纯化,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=40分钟)。将各个运行样品以30mL/级分收集在36个管中(3个板/运行)。将期望的少数产物连同其他的少数异构体在具有约60%纯度的级分6中洗脱。将级分6的合并批次(1.4g)在Hilic HPLC柱(3X 10cm,XBridge酰胺柱,5um,Waters)上通过每次注射约150mg使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按9个运行进一步纯化,持续22分钟,以95%A洗涤,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分含有具有期望纯度的期望产物,并进行合并,在旋转蒸发仪上去除溶剂,再溶解于H_2O并且将样品冻干约3天以得到具有≥95%纯度的240mg白色蓬松固体。

[0772] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.82(d,J=3.8Hz,1H,G5-1H),5.45(m,1H,G2-1H,与HDO峰融合),5.43(m,1H,6-H,与HDO峰融合),5.32(d,J=3.8Hz,1H,G4-1H),4.86(d,J=7.4Hz,1H,G1-1H),4.81(d,J=7.8Hz,1H,G3-1H),3.70(d,J=8.4Hz,1H,24-H),3.60(s,1H,3-H),1.48(s,3H,28-Me),1.45(s,3H,26-Me),1.32(s,3H,27-Me),1.27(s,3H,19-Me),1.09(s,3H,29-Me),1.01(d,J=6.3Hz,3H,21-Me),0.88(s,3H,30-Me),0.84(s,2H,18-Me);ESI-MS 1287.76$(MH)^+$,1285.96$(M-H)^-$,分子式,$C_{60}H_{102}O_{29}$。

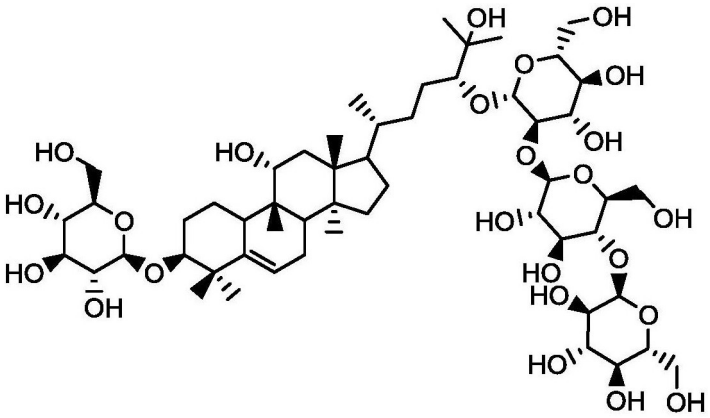
[0773] 实施例19:化合物8的酶促产生

[0774] 

[0775] 向250mL锥形烧瓶添加500mg粗制罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L;编号#775700),并且将烧瓶在50℃下摇动。通过LC-MS定期地监测反应进程。24h后,将反应通过在80℃下加热来终止,并且以4000rpm离心10分钟以去除未反应的酶。将上清液在减压下干燥。将相同的反应再重复139次(总计70g $MIII_E$)。将来自140个运行样品的合并的上清液使用400g C18柱和标准5/35/70/100/5MeOH:H_2O梯度在多重SPE运行上分级。将期望的产物连同其他的少数异构体和未反应的$MIII_E$在70%MeOH SPE级分中洗脱。将合并的70%SPE级分(65g)使用反相条件在PF-HPLC上以每次在5x 10cm柱上注射约900mg使用15%至30%B的A/B梯度(A=水,B=乙腈)按73个运行来进行纯化,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=40分钟)。将各个运行样品以30mL/级分收集在36个管中(3个板/运行)。将期望的少数产物连同其他的少数异构体在具有约60%纯度的级分12中洗脱。将级分12的合并批次(588mg)在Hilic HPLC柱(3X 10cm,XBridge酰胺柱,5um,Waters)上通过每次注射约100mg使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按6次运行来进一步纯化,持续22分钟,以95%A洗涤,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分含有具有期望纯度的期望产物,将其合并,在旋转蒸发仪中去除溶剂,再溶解于H_2O中并且将样品冻干约3天以得到具有约90%纯度的110mg的白色蓬松固体。

[0776] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.83(d,J=3.9Hz,1H,G5-1H),5.45(m,1H,6-H,与HDO峰融合),5.43(m,1H,G2-1H,与HDO峰融合),5.37(d,J=3.6Hz,1H,G4-1H),4.86(d,J=7.7Hz,1H,G1-1H),4.73(d,J=7.7Hz,1H,G3-1H),3.72(m,1H,24-H),3.58(s,1H,3-H),1.47(s,3H,28-Me),1.41(s,3H,26-Me),1.29(s,3H,27-Me),1.26(s,3H,19-Me),1.08(s,3H,29-Me),1.01(d,J=6.2Hz,3H,21-Me),0.86(s,3H,30-Me),0.83(s,3H,18-Me).ESI-MS 1287.94$(MH)^+$,1285.96$(M-H)^-$,分子式,$C_{60}H_{102}O_{29}$。

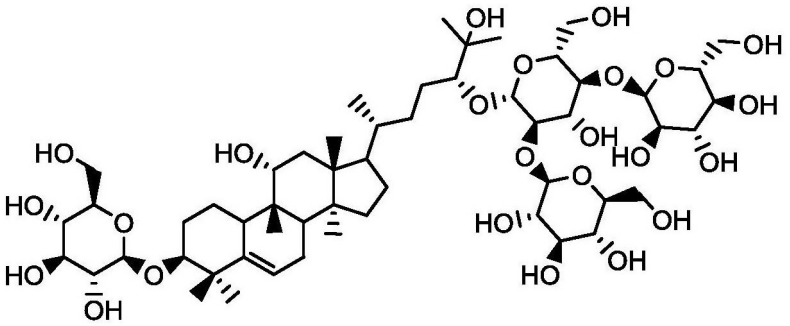
[0777] 实施例20:化合物9的酶促产生

[0778] 

[0779] 向250mL圆底烧瓶添加500mg罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L),并且将烧瓶在50℃下搅拌。通过LC-MS定期地监测反应进程。24h后,将反应用100mL乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥。将相同的反应再重复15次(7.9g $MIII_E$)并且将上清液干燥。将来自16个反应的合并的上清液使用400g柱和标准5/35/70/100MeOH:H_2O分步梯度在四个SPE运行上分级。将期望的产物连同其他的少数异构体和未反应的$MIII_E$在70%SPE级分中洗脱。将合并的70%SPE级分(8.8g)使用Hilic柱(3X 10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射150mg使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按58个运行来进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将级分5以MIV异构体连同S1851的混合物进行洗脱。将来自两个先前批次的由Hilic柱运行产生的合并的不纯级分5(总计4.8g)使用反相条件在PF-HPLC上以每次注射150mg使用19%B的A/B梯度(A=水,B=乙腈)按32个运行来进一步纯化,持续22分钟,以95%B洗涤,然后以1%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个管中(1个板/运行)。基于UPLC分析,级分2至4含有S1851并且级分7含有期望的α-MIV异构体。将级分7合并,在减压下浓缩并且再悬浮/溶解于3mL水,并且冻干3天以得到具有约90%纯度的214.9mg的白色固体。

[0780] ^1H NMR(400MHz,吡啶-d_5+30μL D_2O),选择的信号:δ5.87(d,J=3.9Hz,1H,G4-1H),5.44(m,1H,H-6,与HDO峰融合),5.39(d,J=7.9Hz,1H,G2-1H),4.94(d,J=7.7Hz,1H,G1-1H),4.79(d,J=7.8Hz,1H,G3-1H),3.82(d,J=8.4Hz,1H,24-H),3.55(s,1H,3-H),1.46(s,3H,28-Me),1.43(s,3H,26-Me),1.37(s,3H,27-Me),1.27(s,3H,19-Me),1.17(s,3H,29-Me),1.06(d,J=6.3Hz,3H,21-Me),0.94(s,3H,30-Me)以及0.85(s,3H,18-Me);ESI-MS 1123.66$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

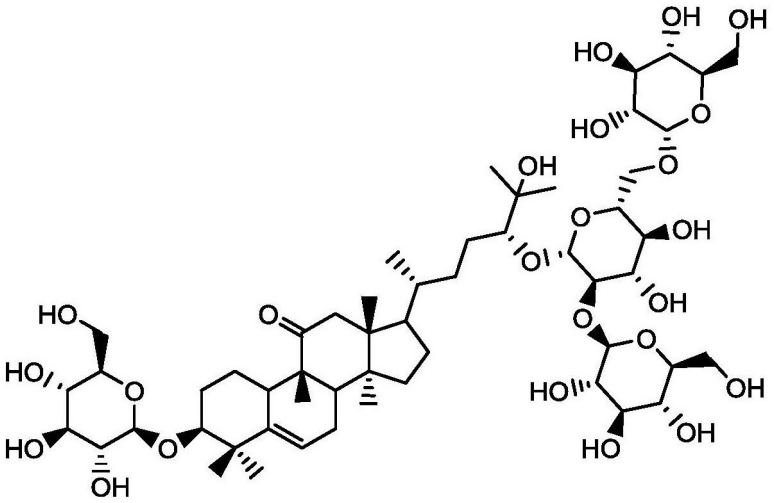
[0781] 实施例21:化合物10的酶生产

[0782] 

[0783] 向250mL圆底烧瓶添加500mg罗汉果苷III_E、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L),并且将烧瓶在50℃下搅拌。通过LC-MS定期地监测反应进程。24h后,将反应用100mL乙醇淬灭,并且以4000rpm离心10分钟。将上清液在减压下干燥。将相同的反应再重复15次(7.9g $MIII_E$),并且干燥上清液。将来自16个反应的合并的上清液使用400g柱和标准5/35/70/100梯度在四个SPE运行上分级。将期望的产物连同其他的少数异构体和未反应的$MIII_E$在70%SPE级分中洗脱。将合并的70%SPE级分(8.8g)使用Hilic柱(3X 10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射150mg使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按58个运行来进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分5以MIV异构体连同S1851的混合物进行洗脱。将来自两个先前批次的由Hilic柱运行产生的合并的不纯级分5(总计4.8g)使用反相条件在PF-HPLC上以每次注射150mg使用19%B的A/B梯度(A=水,B=乙腈)按32个运行来进一步纯化,持续22分钟,以95%B洗涤,然后以1%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个管中(1个板/运行)。基于UPLC分析,级分2至4含有S1851,并且级分9含有期望的α-MIV异构体。将级分9合并,在减压下浓缩,并再悬浮/溶解于2mL水中,并且冻干3天以得到具有约90%纯度的58mg白色蓬松固体。

[0784] ^1H NMR(400MHz,吡啶-d_5+30μL D_2O),选择的信号:δ5.83(d,J=3.9Hz,1H,G4-1H),5.44(m,1H,H-6,与HDO峰溶液),5.35(d,J=7.8Hz,1H,G2-1H),5.00(d,J=7.7Hz,1H,G1-1H),4.74(d,J=7.8Hz,1H,G3-1H),3.69(d,J=8.5Hz,1H,24-H),3.59(s,1H,3-H),1.48(s,3H,28-Me),1.45(s,3H,26-Me),1.41(s,3H,27-Me),1.26(s,3H,19-Me),1.09(s,3H,29-Me),1.01(d,J=6.3Hz,3H,21-Me),0.83(s,3H,30-Me)以及0.82(s,3H,18-Me);ESI-MS 1123.78$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

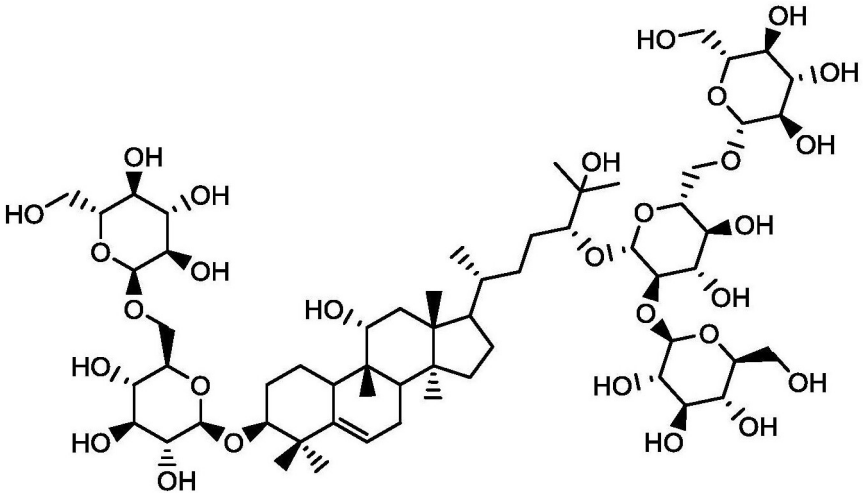
[0785] 实施例22:化合物11的酶促产生

[0786] 

[0787] 向250mL锥形烧瓶添加500mg粗制罗汉果苷III_E(含有约5％的11-氧代-$MIII_E$)、100mL pH 5的0.1M乙酸钠缓冲液、5g可溶淀粉和来自Novozyme的30mL CGTase(环状糊精葡聚糖转移酶;地衣芽孢杆菌;Toruzyme 3.0L;编号#775700),并且将烧瓶在50℃下摇动。通过LC-MS定时地监测反应进程。24h后,将反应通过在80℃下加热来终止,并且以4000rpm离心10分钟,以去除未反应的酶。将上清液在减压下干燥。将相同的反应再重复139次(总计70g $MIII_E$)。将来自140个运行的合并的上清液使用400g C18柱和标准5/35/70/100MeOH:H_2O分步梯度在多重SPE运行上分级。将期望的产物连同其他的罗汉果苷异构体和未反应的$MIII_E$在70％MeOH SPE级分中洗脱。将合并的70％SPE级分(65g)使用反相条件在PF-HPLC上以每次在5×10cm柱上注射约900mg使用15％至30％B的A/B梯度(A＝水,B＝乙腈)按73个运行来纯化,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝40分钟)。将各个运行样品以30mL/级分收集在36个管中(3个板/运行)。将期望的产物连同主要化合物S1851在级分15至16中洗脱。将级分15至16的合并批次(4.6g)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上通过每次注射约150mg使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)按30个运行来进一步纯化,持续22分钟,以95％A洗涤,然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将含有期望纯度的期望产物的级分合并,在减压下去除溶剂,再溶解于3mL H_2O,并且将样品冻干约3天以得到具有≥95％纯度的118mg的白色蓬松固体。

[0788] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,2H,6-H&G2-1H,与HDO融合),5.37(d,J＝3.6Hz,1H,G3-1H),4.87(d,J＝7.7Hz,1H,G1-1H),4.80(d,J＝7.8Hz,1H,G4-1H),3.72(dd,J＝8.9,2.1Hz,1H,24-H),3.58(s,1H,3-H),1.48(s,3H,29-Me),1.43(s,3H,27-Me),1.31(s,3H,26-Me),1.10(s,3H,19-Me),1.04(s,3H,28-Me),0.94(d,J＝5.9Hz,6H,30和21-Me),0.67(s,3H,18-Me);ESI-MS1123.65$(MH)^+$,1121.70$(M-H)^-$;分子式,$C_{54}H_{90}O_{24}$。

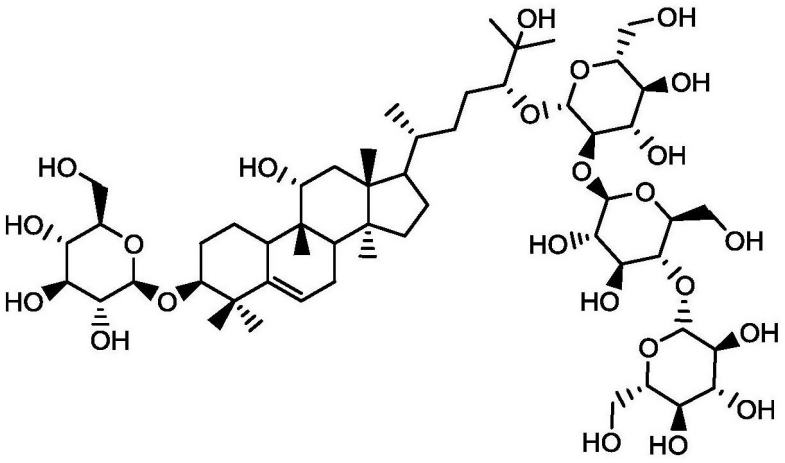
[0789] 实施例23:化合物12的酶促产生

[0790] 

[0791] 向100mL圆底烧瓶添加150mg罗汉果苷VI异构体、30mL 0.1M乙酸钠缓冲液pH 5和来自贝克酵母(酿酒酵母,批次#SLBG7298V)的60mg转化酶,并且在50℃下搅拌。通过LC-MS定期地监测反应进程。7小时后,将反应用30mL EtOH淬灭,并且以4000rpm离心10分钟。将反应以每次150mg的规模再重复两次,总计450mg。淬灭并且离心后,将全部三个批次的上清液合并在一起并且在减压下干燥,然后使用标准5/35/70/100方法以MeOH:H_2O分步梯度进行SPE分级。将期望的产物在70%MeOH级分中洗脱(300mg),并且在HILIC柱上通过使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按6个运行来进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将期望的产物在级分7中洗脱。将来自5个运行样品的合并的级分7在减压下浓缩,然后添加2mL H_2O并且冻干约48小时以得到具有>90%纯度的124mg白色蓬松粉末。

[0792] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.52(d,J=7.8Hz,1H,G3-1H),5.45(m,1H,6-H,与HDO峰融合),5.38(d,J=3.7Hz,1H,G5-1H),4.81(d,J=5.7Hz,1H,G4-1H),4.79(d,J=4.7Hz,1H,G1-1H),4.70(d,J=7.7Hz,1H,G2-1H),3.69(d,J=8.8Hz,1H,24-H),3.60(s,1H,3-H),1.49(s,3H,28-Me),1.42(s,3H,26-Me),1.28(s,6H,19&27-Me),1.09(s,3H,29-Me),1.02(d,J=6.3Hz,3H,21-Me),0.88(s,3H,30-Me),0.85(s,3H,18-Me);ESI-MS 1285.94(M-H)$^-$;分子式,$C_{60}H_{102}O_{29}$。

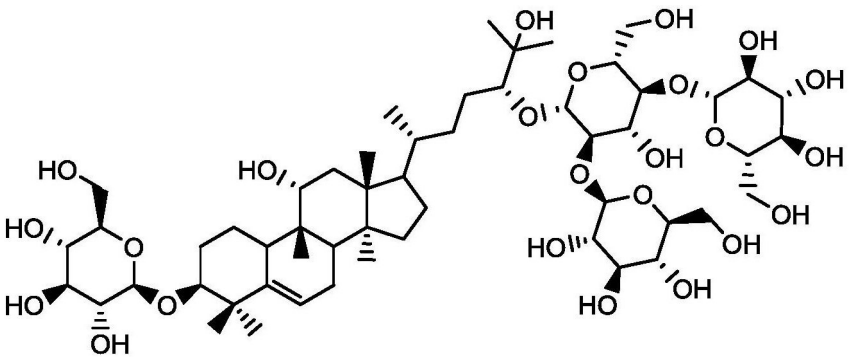
[0793] 实施例24:化合物13的酶促产生

[0794] 

[0795] 向250mL带挡板的烧瓶添加1g粗制罗汉果苷III_E、53mL水、15mL 1M乙酸钠缓冲液pH 5、来自Novozymes的7ml纤维素酶和75gα-乳糖，并且将烧瓶以220rpm在50℃下摇动9天。通过LC-MS分析定期地监测反应进程。将同样的反应再重复17次，总计18g罗汉果苷III_E分为两个批次。9天后，将来自反应混合物的未反应的酶和过量的乳糖在SPE纯化之前按照以下三个步骤去除。将反应混合物以5000rpm离心约10min以去除过量的乳糖，然后在80℃下孵育30min，并且以500rpm进行磁力搅拌。再添加约10％的NH_4SO_4溶液以沉淀未反应的酶和糖，然后以5000rpm离心10min并且去除沉淀。将上清液通过0.22μm PES过滤并且装载至400g SPE C18柱上，并且使用标准5/35/70/100MeOH:H_2O梯度进行分级。将期望的化合物在70％甲醇级分中进行洗脱。将合并的70％SPE级分(12g)使用PF柱并使用15％至30％B的A/B梯度(A＝水，B＝乙腈)在RP-HPLC上进一步纯化，持续35分钟，以95％B洗涤，然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以7.5mL/级分在2个收集窗(每个收集窗36个级分)收集在72个管中(12个级分/板，6个板/运行)。级分22至24含有具有期望纯度的期望峰，并且将其基于UPLC分析进行合并，并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中，并且冻干约3天以得到796mg白色固体。

[0796] ^1H NMR(400MHz，吡啶-d_5+D_2O)，选择的信号：δ5.45(m,1H,H-6，与HDO峰融合)，5.36(d,J＝7.8Hz,1H,G2-1H)，5.07(d,J＝7.8Hz,1H,G4-1H)，5.00(d,J＝7.8Hz,1H,G1-1H)，4.76(d,J＝7.8Hz,1H,G3-1H)，3.88(d,J＝8.0Hz,1H,24-H)，3.56(s,1H,3-H)，1.48(s,3H,29-Me)，1.45(s,3H,26-Me)，1.41(s,3H,27-Me)，1.27(s,3H,19-Me)，1.09(s,3H,28-Me)，1.01(d,J＝6.3Hz,3H,21-Me)，0.83(s,3H,30-Me)，0.82(s,3H,18-Me)；ESI-MS 1123.85$(M-H)^-$；分子式，$C_{54}H_{92}O_{24}$。

[0797] 实施例25：化合物14的酶促产生

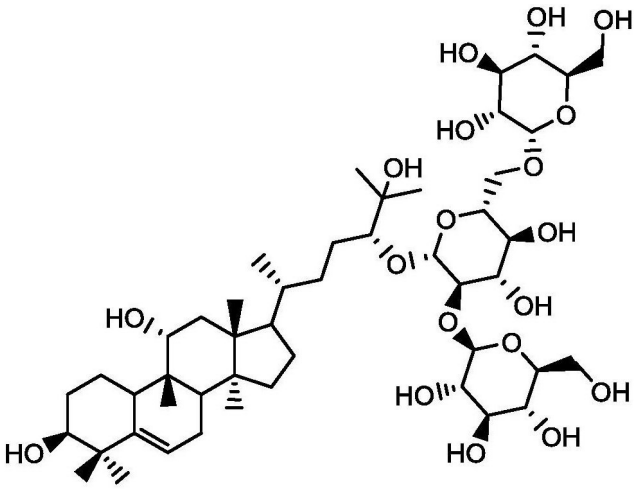
[0798] 

[0799] 向250-mL带挡板的烧瓶添加1g粗制罗汉果苷III_E、53mL水、15mL 1M乙酸钠缓冲液pH 5、来自Novozymes的7ml纤维素酶和75gα-乳糖，并且将烧瓶以220rpm在50℃下摇动9天。通过LC-MS分析定期地监测反应进程。将相同的反应再重复17次，总计18g罗汉果苷III_E分为两个批次。9天后，将来自反应混合物的未反应的酶和过量的乳糖在SPE纯化之前按照以下三个步骤去除。将反应混合物以5000rpm离心约10min以去除过量的乳糖，然后在80℃下孵育30min，并且以500rpm进行磁力搅拌。再添加约10％的NH_4SO_4溶液以便使未反应的酶和糖沉淀，然后以5000rpm离心10min，并且去除沉淀。将上清液通过0.22μm PES过滤并且装载至400g SPE C18柱上，并且使用标准5/35/70/100MeOH:H_2O梯度进行分级。将期望的化合物在70％甲醇级分中洗脱。将来自两个批次的合并的70％SPE级分使用PF柱并使用15％至30％B的A/B梯度(A＝水，B＝乙腈)在RP-HPLC上进一步纯化，持续35分钟，以95％B洗涤，然

后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以7.5mL/级分在2个收集窗(每个收集窗36个级分)收集在72个管中(12个级分/板,6个板/运行)。洗脱的级分19至21连同一些其他的异构体具有期望的峰。将这些级分合并并且使用PF柱在RP-HPLC上使用以下分离方法再次纯化,所述分离方法为18％B(A＝水,B＝乙腈)经历30分钟,然后进行5分钟的95％B洗涤和5分钟以18％的再平衡(总运行时间＝40分钟)。将各个运行样品以15mL/级分收集在24个管中(12个级分/板,2个板/运行)。级分11至12含有具有期望纯度的期望峰,将其合并以及在减压下干燥。将干燥的级分再悬浮/溶解于2mL水中,并且冻干3天以得到具有约95％纯度的52mg白色蓬松固体。

[0800] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,1H,H-6,与HDO峰融合),5.38d,J＝7.8Hz,1H,G2-1H),4.99(d,J＝7.9Hz,1H,G3-1H),4.89(d,J＝7.6Hz,1H,G1-1H),4.82(d,J＝7.8Hz,1H,G4-1H),3.78(m,1H,24-H),3.62(s,1H,3-H),1.49(s,3H,28-Me),1.42(s,3H,26-Me),1.38(s,3H,27-Me),1.27(s,3H,19-Me),1.10(s,3H,29-Me),0.99(d,J＝6.3Hz,3H,21-Me),0.85(s,3H,30-Me),0.82(s,3H,18-Me);ESI-MS 1147.57(M+Na)$^+$,1123.65(M-H)$^-$;分子式,$C_{54}H_{92}O_{24}$。

[0801] 实施例26:化合物15的酶促产生

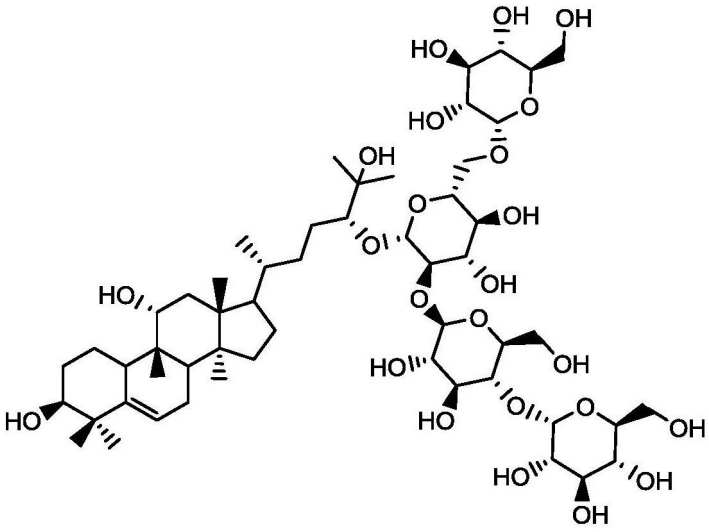
[0802] 

[0803] 向250mL锥形烧瓶添加500mg罗汉果苷II_A、100mL 0.1M乙酸钠缓冲液pH 5、20mL来自Novozymes的Toruzyme和5g可溶淀粉,并且将烧瓶以200rpm在50℃下摇动1天。通过LC-MS分析定期地监测反应进程。24小时后,通过在80℃下孵育30min,然后以4000rpm下离心10min并且去除沉淀来去除来自反应混合物的未反应的酶和过量的淀粉。将相同的反应再重复2次,总计1500mg罗汉果苷IIA。将来自3个反应的合并的上清液装载至400g C18SPE cartridge上,并且使用5/35/70/100MeOH:H_2O分步梯度进行分级。期望的化合物在70％甲醇级分中进行洗脱。将70％SPE级分使用反相条件并使用15％至30％B的A/B梯度(A＝水,B＝乙腈)在PF-HPLC上进一步纯化,持续35分钟,以95％B洗涤,然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以15mL/级分收集在36个管中(12个级分/板,3个板/运行)。基于UPLC分析,级分21至24含有具有期望纯度的期望峰,将其合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于5mL水中,并且冻干3天以得到具有≥95％纯度的310mg白色蓬松固体。

[0804] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.58(d,J＝5.9Hz,1H,6-H),5.45(m,1H,G2-1H;与HDO峰融合),5.37(d,J＝3.6Hz,1H,G3-1H),4.87(d,J＝7.7Hz,1H,G1-1H),

3.72(d,J＝8.6Hz,1H,24-H),3.69(s,1H,3-H),1.42(s,3H,26-Me),1.37(s,3H,28-Me),1.33(s,3H,19-Me),1.30(s,3H,27-Me),1.13(s,3H,29-Me),1.02(d,J＝6.4Hz,3H,21-Me),0.92(s,3H,30-Me),0.85(s,3H,18-Me);ESI-MS 963.94$(M+H)^+$,961.69$(M-H)^-$;分子式,$C_{48}H_{82}O_{19}$。

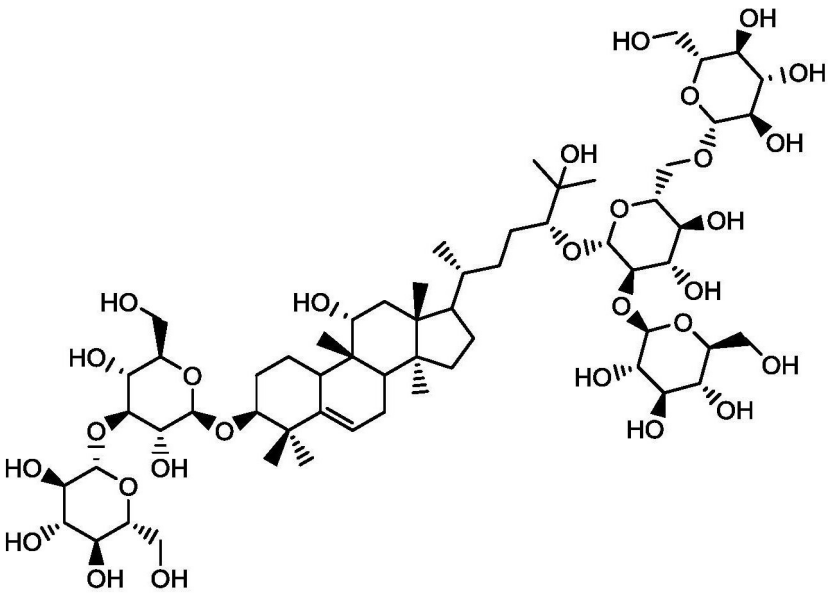
[0805] 实施例27:化合物16的酶促产生

[0806] 

[0807] 向250mL锥形烧瓶添加500mg罗汉果苷II_A、100mL 0.1M乙酸钠缓冲液pH 5、来自Novozymes的20mL Toruzyme和5g可溶淀粉,并且将烧瓶以200rpm在50℃下摇动1天。通过LC-MS分析定期地监测反应进程。24小时后,通过在80℃下孵育30min,然后以4000rpm离心10min并且去除沉淀来去除来自反应混合物的未反应的酶和过量的淀粉。将上清液装载至60g C18SPE cartridge,并且使用5/35/70/100MeOH:H_2O分步梯度进行分级。将期望的化合物在70%甲醇级分中进行洗脱。将70%SPE级分使用反相条件并使用15%至30%B的A/B梯度(A＝水,B＝乙腈)在PF-HPLC上进一步纯化,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间＝45分钟)。将各个运行样品以15mL/级分收集在48个管中(12个级分/板,4个板/运行)。基于UPLC分析,级分31含有具有期望纯度的期望峰,进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于1mL水,并且冻干3天以得到具有约85%纯度的21mg白色蓬松固体。

[0808] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.82(d,J＝3.9Hz,1H),5.58(m,1H),5.40(m,1H,与HDO峰融合),5.32(d,J＝3.8Hz,1H),4.87(d,J＝7.5Hz,1H),3.69(m,2H),1.46(s,3H),1.37(s,3H),1.33(s,3H),1.32(s,3H),1.13(s,3H),1.02(d,J＝6.4Hz,3H),0.93(s,3H),0.85(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.16,119.07,105.05,103.55,103.17,99.75,91.88,82.06,81.62,78.61,78.38,78.07,77.90,76.23,75.70,75.53,75.13,75.06,74.50,74.28,73.36,72.67,72.43,72.17,71.63,71.42,67.93,63.25,62.56,61.63,50.70,49.70,47.41,43.58,42.26,40.90,40.16,36.73,36.50,34.54,33.51,30.63,28.97,28.56,27.26,26.78,26.72,26.22,25.89,25.04,24.62,19.49,19.10,17.06;ESI-MS1123.89$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

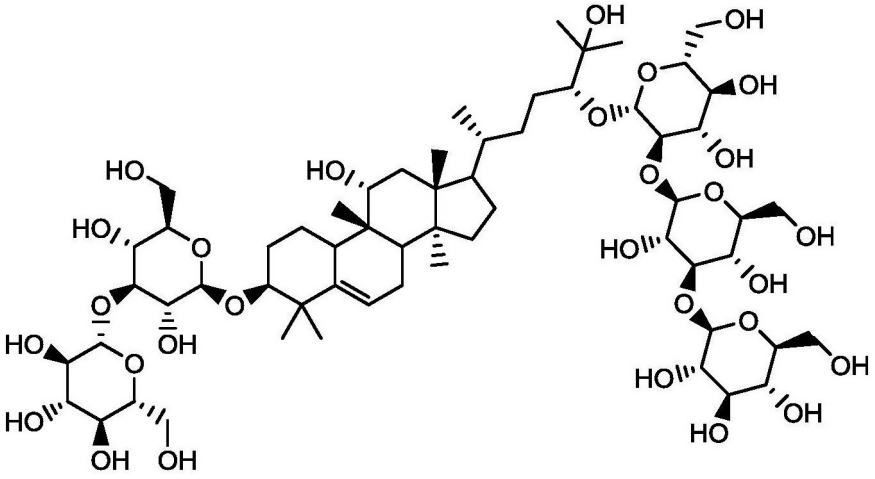
[0809] 实施例28:化合物17的酶促产生

[0810] 

[0811] 向50mL离心管添加11ml去离子水、1.5mL pH 7.52 1M Tris-HCl、0.03g UDP(Carbosynth)、1.6g蔗糖和300μl蔗糖合酶Sus1(0.9mg/ml粗提取物,pQE1,XL1-gold),并且将管在孵育器中在30℃下以200rpm摇动。24小时后,将150mg赛门苷I、15μl BSA(牛血清白蛋白,10mg/ml)、15μl $MgCl_2$、400μl UGT76G1(0.9mg/ml粗提取物,pQE1,XL1-gold)加入上述烧瓶,并且在30℃下再继续摇动24小时。通过LC-MS定期地监测反应进程。24h后(总计48h),通过在搅拌(500rpm)下于80℃加热约30分钟使未反应的酶变性。然后将反应混合物离心(4000rpm持续10min,Eppendorf)并且通过0.22微米PES过滤。将过滤的上清液在减压下干燥并且使用标准5/35/70/100MeOH:H_2O分步梯度在SPE C18 60g柱上进行分级。将期望的产物在70%MeOH级分中进行洗脱,并且使用15%至30%B的A/B梯度(A=H_2O,B=乙腈)在氟-苯基3x10cm柱上进一步纯化,持续35分钟,然后进行95%B洗涤和再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在36个级分中(12个级分/板,3个板/运行)。将经洗脱具有期望产物的级分合并、在减压下干燥并且再悬浮/溶解于2mL水中,以及冻干约3天以得到具有约95%纯度的71mg白色蓬松固体。

[0812] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.51(d,J=7.9Hz,1H,G2-1H),5.44(m,1H,6-H,与HDO峰融合),5.31(d,J=7.8Hz,1H,G5-1H),4.85(dd,J=7.5,2.5Hz,2H,G1-1H),4.79(d,J=8.0Hz,1H,G3-1H),4.77(d,J=8.6Hz,1H,G4-1H),3.71(d,J=9.1Hz,1H,24-H),3.58(s,1H,3-H),1.48(s,3H,28-Me),1.42(s,3H,26-Me),1.29(s,3H,27-Me),1.27(s,3H,19-Me),1.10(s,3H,29-Me),1.03(d,J=6.3Hz,3H,21-Me),0.89(s,3H,30-Me),0.86(s,3H,18-Me);ESI-MS 1309.65$(M+Na)^+$,1285.72$(M-H)^-$;分子式,$C_{60}H_{102}O_{29}$。

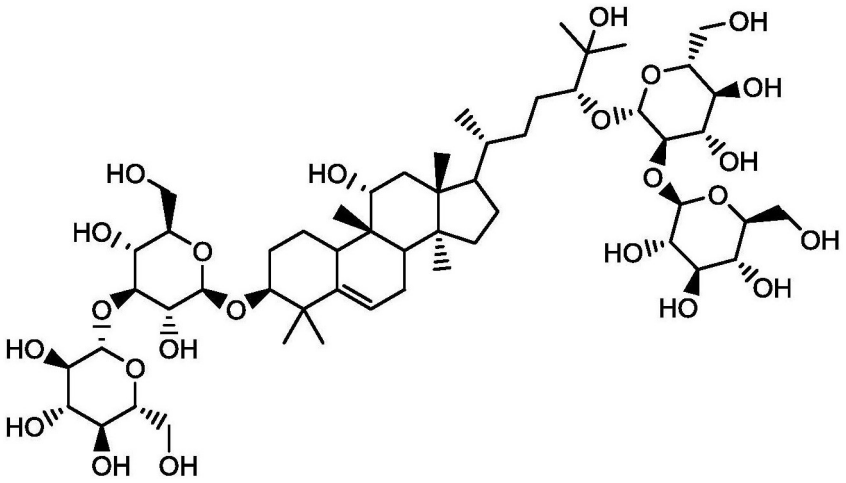
[0813] 实施例29:化合物18的酶促产生

[0814] 

[0815] 向250mL摇瓶添加37mL去离子水、5mL pH 7.52 1M Tris-HCl、0.1g UDP(Carbosynth)、5.2g蔗糖和1mL蔗糖合酶Sus1(0.9mg/ml粗提取物,pQE1,XL1-gold)、500mg罗汉果苷III_E(10mM)、50mL BSA(牛血清白蛋白,10mg/ml)、50mL $MgCl_2$(1M)、1.3mL UGT76G1(0.9mg/ml粗提取物,pQE1,XL1-gold),并且将烧瓶在孵育器中在30℃下以200rpm摇动。通过LC-MS定期地监测反应进程。30h后,通过在搅拌下(500rpm)于80℃加热约30分钟使未反应的酶变性。然后将反应混合物离心(4000rpm持续10min,Eppendorf)并且通过0.22微米PES过滤。将上清液在减压下干燥,并且使用标准MeOH:H_2O分步梯度5/35/70/100在SPE C18 60g柱上进行分级。将期望的产物以70%MeOH级分(982mg)洗脱,并且使用Hilic柱(3×10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射约200mg并且使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按5个运行来进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将洗脱了MIV异构体的混合物的级分4和5使用不同的方法进一步纯化。将期望的罗汉果苷V异构体在级分8和9中洗脱。将这两个级分合并,在减压下浓缩,并且再悬浮/溶解于5mL H_2O中,以及冻干约3天以得到具有≥95%纯度的366mg白色蓬松固体。

[0816] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.55(d,J=7.9Hz,1H,G2-1H),5.44(m,1H,6-H,与HDO峰融合),5.32(d,J=8.0Hz,1H,G4-1H),5.29(d,J=7.9Hz,1H,G5-1H),4.99(d,J=7.1Hz,1H,G1-1H),4.78(d,J=7.8Hz,1H,G3-1H),3.89(m,1H,24-H),3.60(s,1H,3-H),1.48(s,3H,28-Me),1.43(s,3H,26-Me),1.39(s,3H,27-Me),1.25(s,3H,19-Me),1.08(s,3H,29-Me),1.01(d,J=6.2Hz,3H,21-Me),0.83(s,3H,30-Me),0.82(s,3H,18-Me);ESI-MS 1285.91$(M-H)^-$;分子式,$C_{60}H_{102}O_{29}$。

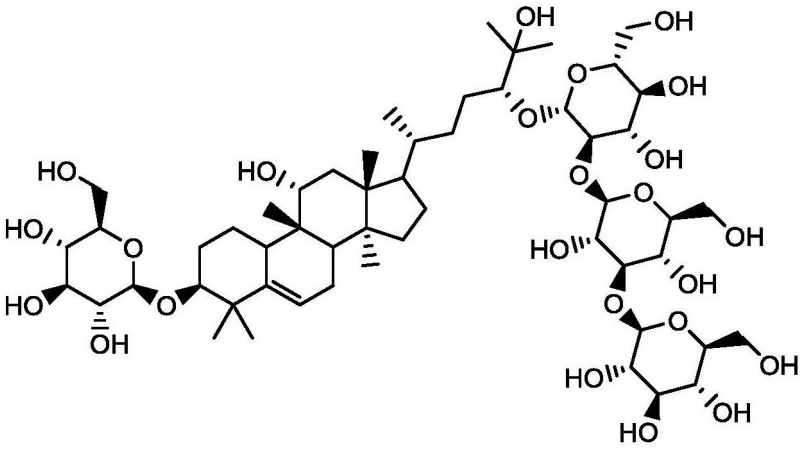
[0817] 实施例30:化合物19的酶促产生

[0818] 

[0819] 向250mL摇瓶添加37mL去离子水、5mL pH 7.52 1M Tris-HCl、0.1g UDP(Carbosynth)、5.2g蔗糖和1mL蔗糖合酶Sus1(0.9mg/ml粗提取物,pQE1,XL1-gold)、1000mg罗汉果苷III_E(20mM)、50mL BSA(牛血清白蛋白,10mg/ml)、50mL $MgCl_2$(1M)、1.3mL UGT76G1(0.9mg/ml粗提取物,pQE1,XL1-gold),并且将烧瓶在孵育器中于30℃下以200rpm摇动。通过LC-MS定期地监测反应进程。约30h后,通过在搅拌下(500rpm)于80℃下加热约30分钟使未反应的酶变性。然后将反应混合物离心(4000rpm持续10min,Eppendorf),并且通过0.22微米PES过滤。将滤液在减压下干燥,并且使用标准MeOH:H_2O分步梯度5/35/70/100在SPE C18 60g柱上进行分级。将罗汉果苷IV和V异构体在70%MeOH级分中进行洗脱(982mg),并且使用Hilic柱(3x 10cm,XBridge酰胺柱,5um,Waters)在HPLC上通过每次注射约200mg并且使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)按5个运行来进一步纯化持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将罗汉果苷V异构体在级分8和9中洗脱。然而,将罗汉果苷IV异构体的混合物在级分4和5中洗脱。将这两个级分合并,并且使用氟-苯基3×10柱、15%至30%B的A/B梯度(A=H_2O,B=乙腈)再次纯化,持续35分钟,然后以95%B洗涤并且再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,3个板/运行)。将少数MIV异构体在级分7中洗脱,而期望的主要MIV异构体在级分4和5中洗脱。将这两个级分合并,在减压下浓缩,并且再悬浮/溶解于3mL H_2O中,以及冻干约3天以得到具有≥95%纯度的91.7mg白色蓬松固体。

[0820] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,1H,6-H,与HDO峰融合),5.36(d,J=7.8Hz,1H,G2-1H),5.31(d,J=7.9Hz,1H,G4-1H),5.00(d,J=7.7Hz,1H,G1-1H),4.78(d,J=7.8Hz,1H,G3-1H),3.87(d,J=7.9Hz,1H,24-H),3.59(s,1H,3-H),1.48(s,3H,28-Me),1.45(s,3H,26-Me),1.41(s,3H,27-Me),1.26(s,3H,19-Me),1.10(s,3H,29-Me),1.01(d,J=6.3Hz,3H,21-Me),0.83(s,3H,30-Me),0.82(s,3H,18-Me);ESI-MS 1125.68$(MH)^+$,1123.74$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

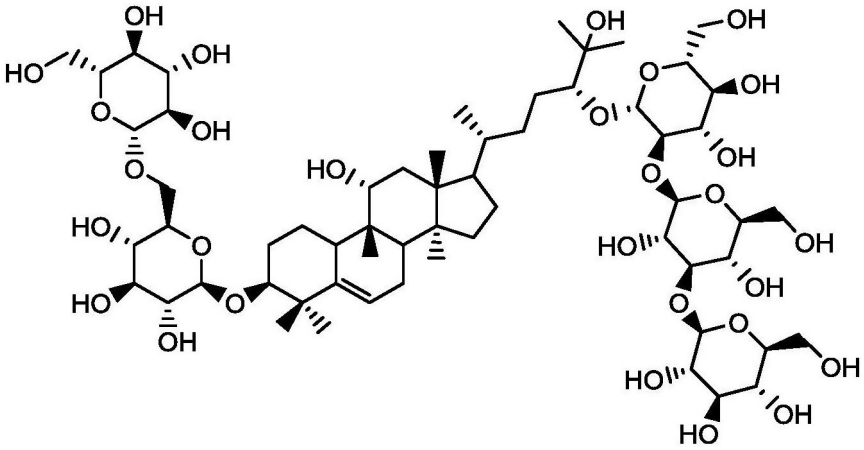
[0821] 实施例31:化合物20的酶促产生

[0822] 

[0823] 向250mL摇瓶添加36mL去离子水、5mL pH 7.52 1M Tris-HCl、0.1g UDP(Carbosynth)、5.2g蔗糖和2.7ml蔗糖合酶Sus1(0.37mg/ml粗提取物,pQE1,XL1-gold)、500mg罗汉果苷III_E、50mL BSA(牛血清白蛋白,10mg/ml)、50mL $MgCl_2$(1M),1.4ml UGT76G1(0.7mg/ml粗提取物,pQE1,XL1-gold),并且将烧瓶在孵育器中于30℃以200rpm摇动。通过LC-MS定期地监测反应进程。使用相同的反应条件对另外500mg罗汉果苷III_E重复反应。约24h后,通过在搅拌下(500rpm)于80℃加热约30分钟使来自两个烧瓶的未反应的酶变性。然后将反应混合物离心(4000rpm持续10min,Eppendorf),并且通过0.22微米PES过滤。将来自两个反应的合并的滤液在减压下干燥,并且使用标准MeOH:H_2O分步梯度5/35/70/100在SPE C18 60g柱上进行分级。将期望的罗汉果苷IV和V异构体在70%MeOH级分中进行洗脱,并且使用15%至30%B的A/B梯度(A=H_2O,B=乙腈)在氟-苯基3×10cm柱上进行纯化,持续35分钟,然后以95%B洗涤并且再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将级分3至5作为主要的MV和MIV异构体的混合物进行洗脱,并且将级分6和7以具有约80%纯度的期望产物洗脱。将合并的级分6和7使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在HILIC 3×10cm柱上再次纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分6含有期望的产物,将其合并,在减压下浓缩并且再悬浮/溶解于3mL H_2O,以及冻干约3天以得到具有≥95%纯度的70mg白色蓬松固体。

[0824] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.56(d,J=7.9Hz,1H,G2-1H),5.43(m,1H,6-H,与HDO峰融合),5.29(d,J=7.9Hz,1H,G4-1H,),4.99(d,J=7.0Hz,1H,G1-1H),4.83(d,J=7.8Hz,1H,G3-1H),3.63(s,1H,3-H),1.50(s,3H,28-Me),1.44(s,3H,26-Me),1.39(s,3H,27-Me),1.27(s,3H,19-Me),1.09(s,3H,29-Me),1.02(d,J=6.3Hz,3H,21-Me),0.83(brs,6H,18&30-Me);ESI-MS 1125.96$(MH)^+$,1123.91$(M-H)^-$;分子式,$C_{54}H_{92}O_{24}$。

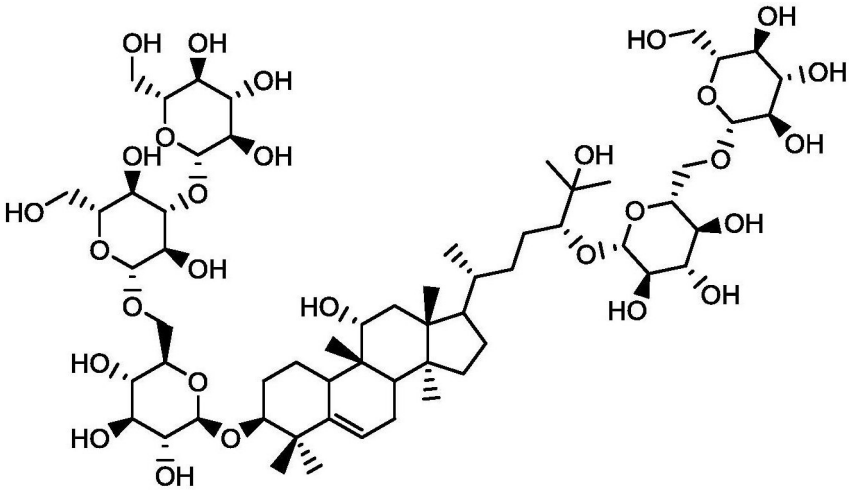
[0825] 实施例32:化合物21的酶促产生

[0826] 

[0827] 向50mL离心管添加8ml去离子水、1.5mL pH 7.52 1M Tris-HCl、0.03g UDP (Carbosynth)、1.6g蔗糖和2.7ml蔗糖合酶Sus1(0.37mg/ml粗提取物,pQE1,XL1-gold)、1.4ml UGT76G1(0.7mg/ml粗提取物,pQE1,XL1-gold)、15μl BSA(10mg/ml)、15μl $MgCl_2$ (1M)、150mg罗汉果苷IV_E,并且将管在孵育器中于30℃以200rpm摇动。通过LC-MS定期地监测反应进程。48h后,将反应在搅拌下(500rpm)于80℃加热约30分钟使酶变性来淬灭。然后将反应混合物离心(4000rpm持续10min,Eppendorf)并且通过0.22微米PES过滤。将上清液在减压下干燥,并且使用标准MeOH:H_2O分步梯度5/35/70/100在SPE C18 60g柱上进行分级。将期望的产物在70%MeOH级分中进行洗脱,并且使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic3x10cm柱上进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将经洗脱具有期望产物的级分合并,在减压下干燥,并且在再悬浮/溶解于2mL水,以及冻干约3天以得到具有约95%纯度的108mg白色蓬松固体。

[0828] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.55(d,J=7.9Hz,1H,G2-1H),5.42(m,1H,6-H,与HDO峰融合),5.28(d,J=7.9Hz,1H,G5-1H),5.11(d,J=7.8Hz,1H,G4-1H),4.99(d,J=7.0Hz,1H,G1-1H),4.77(d,J=7.8Hz,1H,G3-1H),3.65(d,J=2.8Hz,1H,3-H),1.46(s,3H,28-Me),1.43(s,3H,26-Me),1.39(s,3H,27-Me),1.28(s,3H,19-Me),1.05(s,3H,29-Me),1.03(d,J=6.3Hz,3H,21-Me),0.82(s,6H,18&30-Me);ESI-MS 1287.76$(MH)^+$,1285.95$(M-H)^-$;分子式,$C_{60}H_{102}O_{29}$。

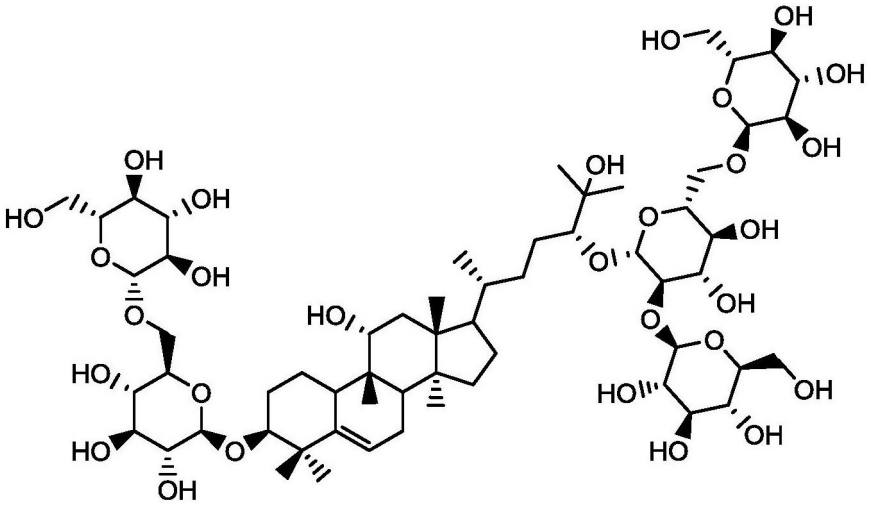
[0829] 实施例33:化合物22的酶促产生

[0830] 

[0831] 向50mL离心管添加8ml去离子水、1.5mL pH 7.52 1M Tris-HCl、0.03g UDP (Carbosynth)、1.6g蔗糖、2.7ml蔗糖合酶Sus1(0.37mg/ml粗提取物,pQE1,XL1-gold)、1.4ml UGT76G1(0.7mg/ml粗提取物,pQE1,XL1-gold)、15μl BSA(10mg/ml)、15μl $MgCl_2$ (1M)、150mg罗汉果苷IVA,并且将管在孵育器中于30℃以200rpm摇动。通过LC-MS定期地监测反应进程。在添加罗汉果苷IVA 24h后,通过在搅拌下(500rpm)于80℃加热30分钟使反应终止。然后将反应物离心(4000rpm持续10min,Eppendorf),并且通过250ml的0.22微米PES来过滤。将滤液装载至60g C18柱上,并且使用5/35/70/100MeOH:H_2O分步梯度进行分级。将期望的产物在70%MeOH级分中进行洗脱,并且使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在HILIC柱上进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分6和7含有80%纯度的期望产物。将来自所有运行样品的这两种级分合并,并且在氟-苯基3×10cm柱上以15%至30%B的A/B梯度(A=H_2O,B=乙腈)再次纯化,持续35分钟,然后以95%B洗涤并且再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将经洗脱具有期望产物的级分合并,在减压下干燥,并且再悬浮/溶解于1mL水中,以及冻干约3天以得到具有约95%纯度的18mg白色蓬松固体。

[0832] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,1H,6-H,与HDO峰融合),5.19(dd,J=7.8,1.9Hz,1H,G5-1H),5.10(d,J=7.8Hz,1H,G4-1H),4.95(d,J=7.7Hz,1H,G2-1H),4.82(d,J=7.9Hz,1H,G1-1H),4.77(d,J=7.8Hz,1H,G3-1H),3.70(m,2H,24和3-H),1.47(s,3H,28-Me),1.35(s,3H,26-Me),1.29(s,6H,27和19-Me),1.07(s,3H,29-Me),0.91(d,J=6.2Hz,3H,21-Me),0.85(s,3H,30-Me),0.77(s,3H,18-Me);ESI-MS 1287.76$(MH)^+$,1285.95$(M-H)^-$;分子式,$C_{60}H_{102}O_{29}$。

[0833] 实施例34:化合物23的分离和酶促产生

[0834] 

[0835] 酶促的:向250mL摇瓶添加5mL pH 5.5 1M乙酸钠缓冲液、10g蔗糖、10ml葡聚糖蔗糖酶(DexT,1mg/ml粗提取物,pET23a,BL21-Codon Plus-RIL,在2X YT中生长)、300mg罗汉果苷IV_E、35mL水,并且将烧瓶以200rpm在30℃下摇动。通过LC-MS定期地监测反应进程。约24h后,将60uL葡聚糖酶(Amano)添加至反应(将高糖基化的罗汉果苷IV_E异构体水解为期望的罗汉果苷V异构体),并且以200rpm在40℃下摇动。约18h后,将反应混合物加热至80℃持续约30分钟,同时以200rpm摇动,然后将其离心(4000rpm持续10min,Eppendorf),并且将上

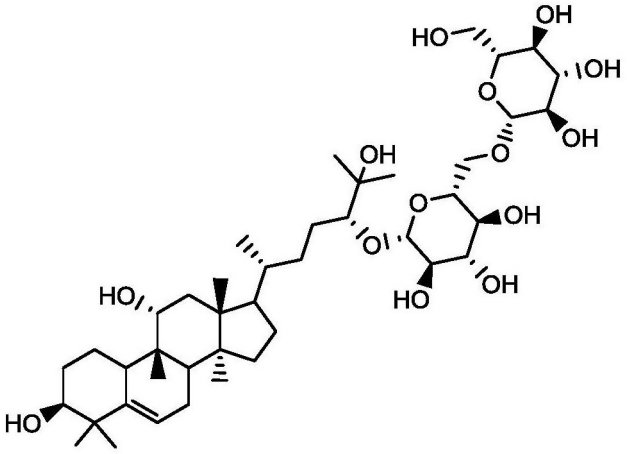
清液通过250ml的0.22微米PES过滤。将上清液装载至60g C18SPE柱上，并且使用5/35/70/100/5MeOH:H_2O梯度进行分级。将期望的产物连同其他的少数异构体和未反应的MIV_E在70％MeOH级分中进行洗脱。将该级分在HILIC柱(3x 10cm,XBridge酰胺柱,5um,Waters)上使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)进一步纯化，持续26分钟，然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板，2个板/运行)。将期望的化合物在级分13和14中洗脱。将这两个级分合并，在减压下浓缩，并且再悬浮/溶解于3mL H_2O，以及冻干约2天以得到具有≥95％纯度的85mg白色蓬松固体。

[0836] 分离：对于80g和100g的两个不同批次，将得自Xi'an HekingBio-tech Co.,Ltd.的180g罗汉果粉状提取物(罗汉果提取物，50％罗汉果苷，浅黄色粉末；样品ID:50755234)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10％→30％B的A/B梯度(A＝水，B＝乙腈)通过360份注射剂进行分级，持续30分钟，以95％B洗涤，然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板，3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他异构体在frxn 15中洗脱。将来自两个批次的合并的frxn 15(916mg和1913mg)使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC柱(3X 10cm,XBridge酰胺柱,5um,Waters)上按28个运行中进一步分级，持续22分钟，以95％A洗涤，然后以80％再平衡(总运行时间＝30.3分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板，1个板/运行)。级分9含有期望的产物并且进行合并，在减压下浓缩，然后添加2mL H_2O，并且将样品冻干2天以得到具有约90％纯度的190mg蓬松白色固体。

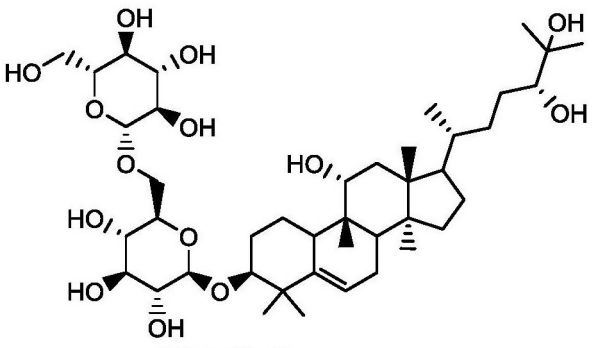
[0837] ^1H NMR(400MHz,吡啶-d_5+D_2O)，选择的信号：δ5.43(m,1H,6-H,与HDO峰融合)，5.40(m,1H,G2-1H,与HDO峰融合)，5.38(d,J＝3.7Hz,1H,G5-1H)，5.10(d,J＝7.8Hz,1H,G4-1H)，4.87(d,J＝7.7Hz,1H,G1-1H)，4.76(d,J＝7.8Hz,1H,G3-1H)，3.72(d,J＝8.2Hz,1H,24-H)，3.64(s,1H,3-H)，1.46(s,3H,28-Me)，1.42(s,3H,26-Me)，1.30(s,3H,27-Me)，1.29(s,3H,19-Me)，1.06(s,3H,29-Me)，1.03(d,J＝6.3Hz,3H,21-Me)，0.86(s,3H,30-Me)，0.83(s,3H,18-Me)；ESI-MS 1287.9$(MH)^+$，1285.96$(M-H)^-$，分子式，$C_{60}H_{102}O_{29}$。

[0838] 实施例35和实施例36：由真菌乳糖酶酶促产生罗汉果苷II_{A1}和罗汉果苷II_{A2}

[0839]



罗汉果苷 II_{A1}



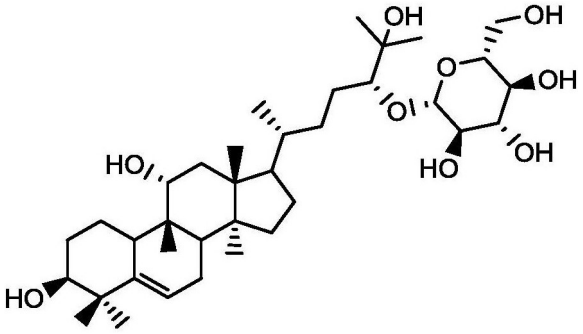
罗汉果苷 II_{A2}

[0840] 向250mL圆底烧瓶添加1g罗汉果苷V、100mL 0.1M乙酸钠缓冲液pH 5和500mg真菌乳糖酶，并且将烧瓶在50℃下搅拌。通过LC-MS定期地监测反应进程。72小时后，将反应通过在80℃下加热约30分钟来终止，并且以4000rpm离心10分钟。将上清液装载至60g C18SPE柱上，并且使用5/35/70/100/5MeOH:H_2O梯度进行分级。将期望的产物在70％和100％MeOH级分中洗脱。将这两个级分使用90％至50％B的A/B梯度(A＝3:1MeOH:H_2O，B＝乙腈)在HILIC柱上进一步纯化，持续26分钟，然后以90％再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板，1个板/运行)。将期望的化合物在级分12和15中洗脱。将来自不同运行样品的这两种级分分别合并，并且通过1D和2D NMR以及LC-MS数据表征罗汉果苷II_{A1}和罗汉果苷II_{A2}。

[0841] 罗汉果苷II_{A1}:^{1}H NMR(400MHz，吡啶-d_5+D_2O)，选择的信号:δ5.60(d，J＝6.0Hz，1H)，4.86(d，J＝7.9Hz，2H)，4.79(d，J＝7.7Hz，1H)，3.73(dd，J＝6.2，3.6Hz，2H)，1.39(d，J＝1.6Hz，6H)，1.34(s，3H)，1.29(s，3H)，1.15(s，3H)，0.90(d，J＝6.4Hz，3H)，0.87(s，3H)，0.84(s，3H)；ESI-MS 801.68$(MH)^+$，799.74$(M-H)^-$，分子式，$C_{42}H_{72}O_{14}$。

[0842] 罗汉果苷II_{A2}:^{1}H NMR(400MHz，吡啶-d_5+D_2O)，选择的信号:δ5.45(m，1H，与HDO峰融合)，5.10(d，J＝7.8Hz，1H)，4.77(d，J＝7.8Hz，1H)，3.75(dd，J＝9.0，2.5Hz，1H)，3.67(d，J＝2.9Hz，1H)，1.52(s，3H)，1.49(s，2H)，1.47(s，3H)，1.28(s，3H)，1.07(s，3H)，0.98(d，J＝6.1Hz，3H)，0.83(s，3H)，0.81(s，3H)；ESI-MS 801.64$(MH)^+$，799.65$(M-H)^-$，分子式，$C_{42}H_{72}O_{14}$。

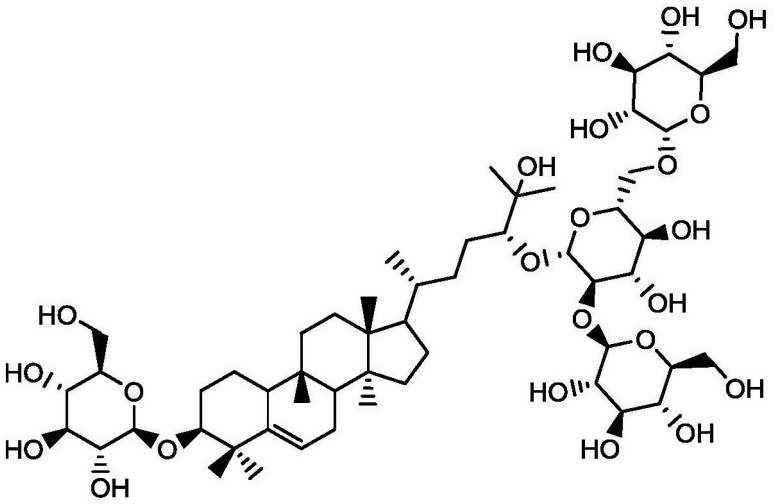
[0843] 实施例37:由Viscozyme酶促产生罗汉果苷$_{IA}$

[0844] 

[0845] 向100mL圆底烧瓶添加300mg罗汉果苷IIA、25mL 0.1M乙酸钠缓冲液pH 5和200uL Viscozyme(Novozymes)，并且将烧瓶在50℃下搅拌。通过LC-MS定期地监测反应进程。24小时后，将反应通过在80℃下加热30分钟来终止，并且以4000rpm离心10分钟。将上清液在减压下干燥，并且使用20％至60％B的A/B梯度(A＝H_2O，B＝乙腈)在氟-苯基3x10cm柱上进行纯化，持续25分钟，然后以95％B洗涤，并且再平衡(总运行时间＝31分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板，2个板/运行)。将经洗脱具有期望产物的级分合并，在减压下干燥，并且再悬浮/溶解于1mL水中，以及冻干约2天以得到具有约90％纯度的30mg白色蓬松固体。

[0846] ^{1}H NMR(400MHz，吡啶-d_5+D_2O)，选择的信号:δ5.61(d，J＝6.0Hz，1H)，4.97(d，J＝7.8Hz，1H)，3.86(m，1H)，3.73(d，J＝2.8Hz，1H)，1.42(s，3H)，1.40(s，3H)，1.38(s，3H)，1.34(s，3H)，1.16(s，3H)，0.94(d，J＝6.4Hz，3H)，0.87(s，3H)，0.85(s，3H)；ESI-MS 639.39$(MH)^+$，637.58$(M-H)^-$，分子式，$C_{36}H_{62}O_9$。

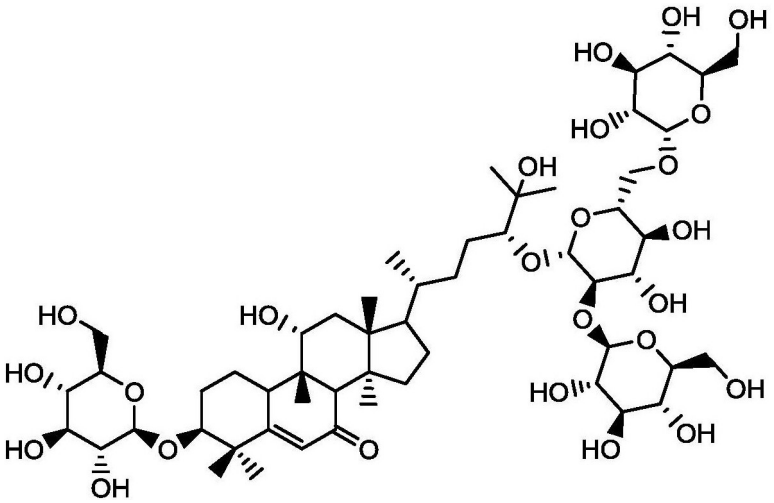
[0847] 实施例38:化合物24的酶促产生

[0848] 

[0849] 向3L摇瓶添加1L水、150mL pH 5.5 1M乙酸钠缓冲液、300g蔗糖、50ml葡聚糖蔗糖酶DexT(1mg/ml粗提取物,pET23a,BL21-Codon Plus-RIL,在2X YT中生长)、10g罗汉果苷III_E,并且将烧瓶以200rpm在30℃下摇动。通过LC-MS定期地监测反应进程。72h后,将反应混合物用1500uL葡聚糖酶(Amano)处理。24h后,将反应通过在80℃下加热来终止,并且以10,000rpm离心5分钟,以及将上清液过滤并且在4℃下储存。将反应使用相同的条件再重复3次以增加材料。将各个烧瓶(10g)装载至400g C18SPE柱上,并且使用5/25/50/75/100MeOH:H_2O分步梯度进行分级。每个级分1350ml,展开至6个烧瓶。将期望的产物在75%MeOH级分的第4个烧瓶中洗脱,并且使用15%至30%B的A/B梯度(A=H_2O,B=乙腈)在氟-苯基3x10cm柱上进一步纯化,持续35分钟,然后以95%B洗涤,并且再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在24个运行中(12个级分/板,2个板/运行)。将经洗脱具有期望产物的级分合并,在减压下干燥并且再悬浮/溶解于1mL水中,以及冻干约2天以得到具有约90%纯度的25mg白色蓬松固体。

[0850] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.52(1H,m,与HDO融合),5.48(m,1H),5.44(d,J=3.7Hz,1H),4.95(d,J=7.8Hz,1H),4.89(d,J=7.8Hz,1H),3.81(m,1H),3.68(d,J=3.3Hz,1H),1.54(s,3H),1.50(s,3H),1.39(s,3H),1.09(d,J=8.4Hz,6H),0.87(s,3H),0.83(s,3H),0.81(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ143.23,118.86,107.17,105.20,103.35,99.81,91.39,87.71,81.89,78.50,78.32,78.07,75.68,75.31,75.03,74.13,73.82,72.73,72.14,72.05,71.62,71.45,67.61,63.24,62.82,62.58,50.81,49.37,46.46,46.44,43.78,41.77,38.51,36.50,35.03,34.60,33.58,32.58,30.75,29.00,28.38,28.24,26.74,25.92,24.96,24.55,22.72,19.22,18.11,15.68;ESI-MS 1109.77$(MH)^+$,1107.73$(M-H)^-$,分子式,$C_{54}H_{92}O_{23}$。

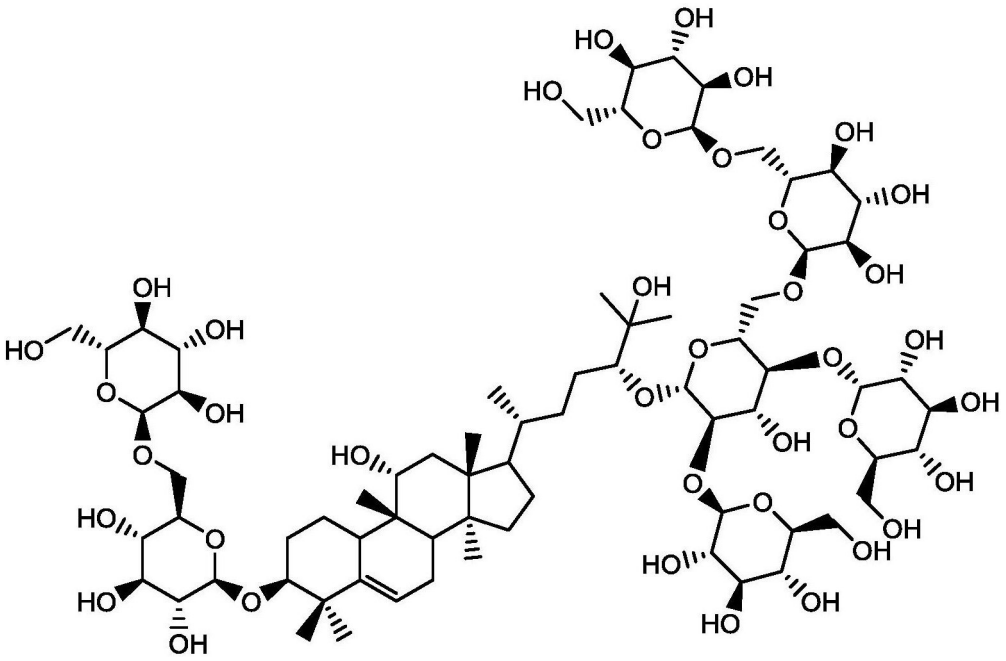
[0851] 实施例39:化合物25的酶促产生

[0852] 

[0853] 向1L烧瓶添加270mL水，40mL pH 5.5 1M乙酸钠缓冲液、80g蔗糖、8mL葡聚糖蔗糖酶DexT(1mg/mL粗提取物，pET23a，BL21-Codon Plus-RIL，在2X YT和TB中生长)、2g罗汉果苷III_E，并且将烧瓶在30℃下以200rpm摇动。通过LC-MS定期地监测反应进程。72h后，将反应用300uL葡聚糖酶(Amano)处理。24h后，将反应通过在80℃下加热来淬灭，并且以10,000rpm离心5分钟，将上清液使用5/25/50/50/75/100MeOH:H_2O分步梯度在60g C18SPE柱上过滤并分级。将期望的产物在50％MeOH级分中洗脱，并且使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O，B＝乙腈)在Hilic 3x10cm柱上进一步纯化，持续26分钟，然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板，2个板/运行)。将经洗脱具有期望产物的级分合并，在减压下干燥，并且再悬浮/溶解于1mL的水中，以及冻干约2天以得到具有约90％纯度的11.5mg白色蓬松固体。

[0854] ^1H NMR(400MHz，吡啶-d_5+D_2O)，选择的信号:δ6.24(d，J＝1.5Hz，1H)，5.5(m，1H，与HDO峰融合)，5.36(d，J＝3.7Hz，1H)，4.86(d，J＝7.7Hz，1H)，4.80(d，J＝7.8Hz，1H)，3.70(d，J＝5.9Hz，2H)，1.50(s，3H)，1.41(s，3H)，1.29(s，3H)，1.21(s，3H)，1.17(s，3H)，1.02(d，J＝6.2Hz，3H)，0.93(s，3H)，0.84(s，3H)；^{13}C NMR(101MHz，吡啶-d_5+D_2O)δ200.60，170.03，123.51，105.47，103.65，102.12，98.40，90.39，86.54，77.13，76.93，76.64，75.37，74.33，74.24，73.78，73.61，72.72，72.52，72.41，71.30，70.73，70.63，70.06，66.21，61.78，61.29，61.15，58.64，49.13，47.22，45.65，42.53，39.20，39.01，37.82，35.55，33.10，32.12，27.96，27.46，27.19，26.15，25.73，25.27，25.21，24.16，23.45，18.30，17.60，15.36；ESI-MS 1139.47$(MH)^+$，1137.85$(M-H)^-$，分子式，$C_{54}H_{90}O_{25}$。

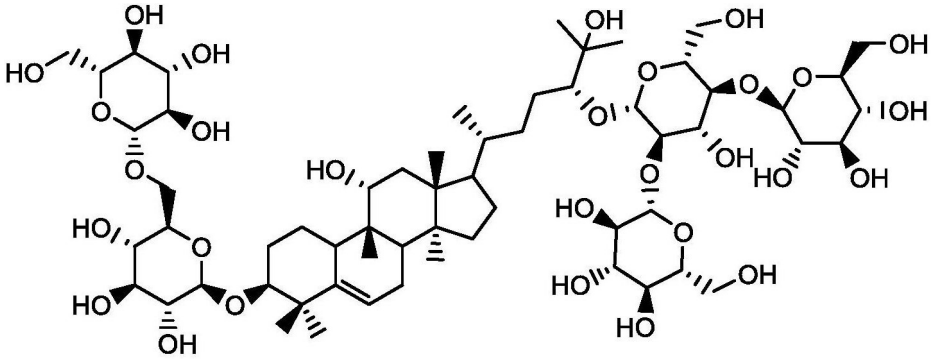
[0855] 实施例40:化合物26的酶促产生

[0856] 

[0857] 向1L烧瓶添加270mL水、40mL pH 5.5 1M乙酸钠缓冲液、80g蔗糖、8mL葡聚糖蔗糖酶DexT(1mg/mL粗提取物,pET23a,BL21-Codon Plus-RIL,在2X YT和TB中生长)、2g罗汉果苷III_E,并且将烧瓶在30℃下以200rpm摇动。通过LC-MS定期地监测反应进程。72h后,将反应用300uL葡聚糖酶(Amano)处理。24h后,将反应通过在80℃下加热来淬灭,并且以10,000rpm离心5分钟,将上清液过滤,并且使用5/35/70/100MeOH:H_2O分步梯度在60g C18SPE柱上进行分级。将期望的产物在70%MeOH级分中洗脱,并且使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic 3x10cm柱上纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。级分20含有期望的产物并且以约80%的纯度进行合并。将其使用80%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)通过修改的Hilic方法再次纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。将经洗脱具有期望纯度的期望产物的级分合并,在减压下干燥,并且再悬浮/溶解于2mL水中,以及冻干约2天以得到77mg白色蓬松固体。

[0858] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.73(d,J=4.0Hz,1H),5.44(m,2H,与HDO峰融合),5.36(d,J=3.7Hz,1H),5.32(d,J=3.7Hz,1H),5.28(d,J=3.7Hz,1H),4.83(d,J=6.5Hz,1H),4.81(m,,1H),3.70(d,J=8.3Hz,1H),3.61(s,1H),1.49(s,3H),1.40(s,3H),1.28(d,J=2.7Hz,5H),1.09(s,3H),1.01(d,J=6.2Hz,3H),0.87(s,2H),0.84(s,2H);^{13}C NMR(101MHz吡啶-d_5+D_2O)δ144.29,118.50,107.17,105.18,103.49,101.95,99.78,99.73,99.63,91.69,87.91,85.40,81.83,78.54,78.33,78.09,78.00,77.87,75.73,75.43,75.31,74.29,74.14,73.57,73.50,72.71,72.20,71.95,71.83,71.68,71.59,71.45,71.16,67.51,67.44,67.37,63.29,62.77,62.52,62.03,50.77,49.68,47.41,43.52,42.38,40.89,40.09,36.74,36.56,34.55,33.50,29.50,28.55,27.68,26.87,26.73,26.32,24.92,24.57,19.47,19.12,17.06;ESI-MS 1612.44$(MH)^+$,1610.4$(M-H)^-$,分子式,$C_{72}H_{122}O_{39}$。

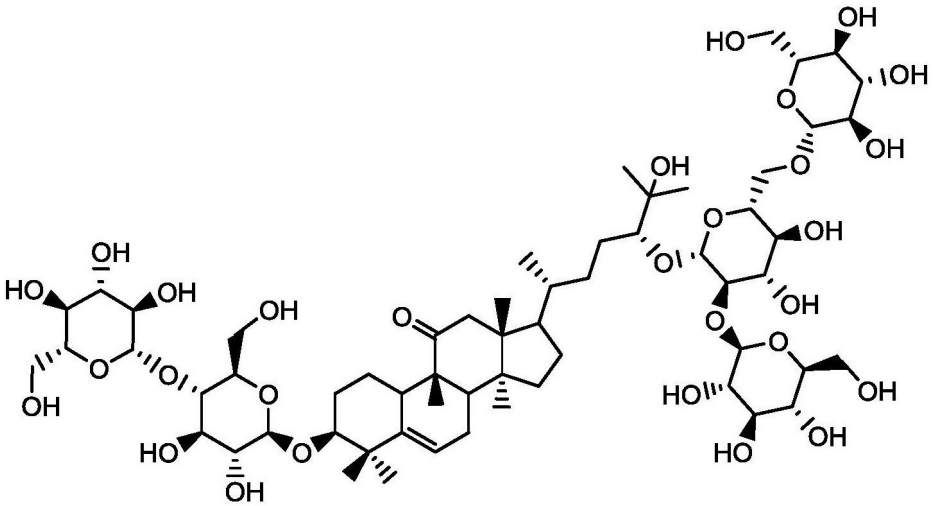
[0859] 实施例41:化合物27的分离

[0860] 

[0861] 将得自Xi'an Heking Bio-tech Co.,Ltd.的100g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10％→30％B的A/B梯度(A＝水,B＝乙腈)通过200份注射剂进行分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分22中洗脱。将合并的级分22(947mg)使用80％至40％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC 3X 10cm柱上按24个运行进一步分级,持续22分钟,然后以80％再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。将期望的化合物在具有约60％纯度的级分12中进行洗脱。将该级分使用上述Hilic方法再次纯化,并且将含有期望峰和期望纯度的级分进行合并,并且在减压下干燥。将纯的化合物再悬浮/溶解于1mL水,并且冻干以得到具有约90％纯度的7.5mg蓬松白色固体。

[0862] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.48(m,1H,与HDO峰融合),5.35(d,J＝7.9Hz,1H),5.24(d,J＝7.8Hz,1H),5.04(d,J＝7.8Hz,1H),4.97(d,J＝7.8Hz,1H),4.82(d,J＝7.8Hz,1H),3.61(s,1H),1.48(s,3H),1.42(s,3H),1.37(s,3H),1.27(s,3H),1.08(s,3H),1.01(d,J＝6.2Hz,3H),0.82(brs,6H);ESI-MS 1287.94$(MH)^+$,1285.85$(M-H)^-$,分子式,$C_{60}H_{102}O_{29}$。

[0863] 实施例42:化合物28的分离

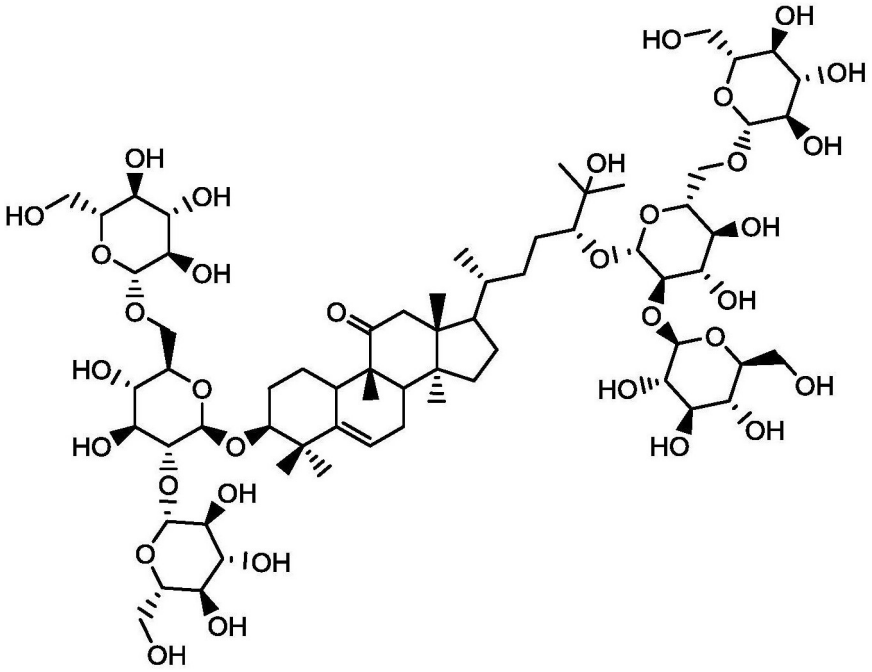
[0864] 

[0865] 将得自Xi'an Heking Bio-tech Co.,Ltd.的100g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,

Waters)上使用10%→30%B的A/B梯度(A＝水B＝乙腈)通过200份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分15中洗脱。将合并的级分15(3.3g)使用80%至40%B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC 3X 10cm柱上按33个运行进一步分级,持续22分钟,然后以80%再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分进行合并,并且在减压下干燥。将纯的化合物再悬浮/溶解于1mL水中,并且冻干以得到具有90%纯度的31mg蓬松白色固体。

[0866] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.53(d,J＝7.8Hz,1H),5.45(m,1H),5.14(d,J＝7.9Hz,1H),4.85(m,2H),4.79(d,J＝7.7Hz,1H),4.75(d,J＝7.8Hz,1H),3.70(m,1H),3.53(brs,1H),1.47(s,3H),1.43(s,3H),1.30(s,3H),1.10(s,3H),1.04(s,3H),0.96(brd,J＝6.5Hz,6H),0.68(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ214.54,141.08,118.58,106.69,104.78,104.65,103.78,92.48,87.21,81.31,81.19,78.57,78.34,78.29,78.22,78.07,77.93,77.69,76.58,76.35,76.18,75.72,75.16,74.76,72.78,72.17,71.31,71.21,70.06,63.17,62.37,62.23,61.97,49.74,49.69,48.99,48.77,43.93,41.93,36.15,35.82,34.52,33.09,28.97,28.27,26.92,25.78,24.54,24.04,22.05,20.23,18.73,18.38,17.04;ESI-MS 1285.9$(MH)^+$,1283.78$(M-H)^-$,分子式,$C_{60}H_{100}O_{29}$。

[0867] 化合物43:11-氧代-罗汉果苷VI的分离

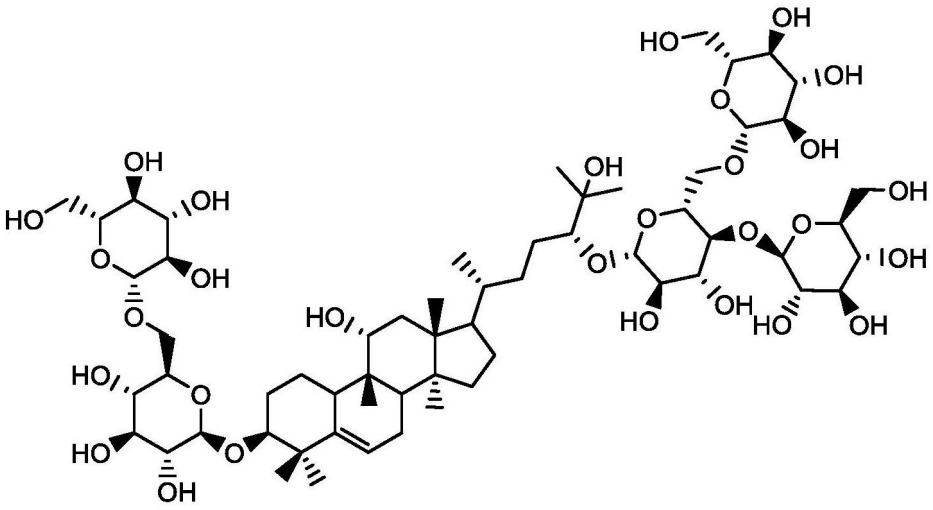
[0868] 

[0869] 将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)在C18HPLC(5×10cmAtlantis prep T3OBD柱,5um,Waters)上使用10%→30%B的A/B梯度(A＝水,B＝乙腈)通过22份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行。将板在Genevac HT12/HT24中干燥。期望的化合物在具有约80%纯度的级分3中洗脱。将合并的级分3在减压下干燥以得到80mg的半白色固

体。

[0870] ^{1}H NMR(400MHz,吡啶-d_5+D_2O)δ5.73(d,J＝5.3Hz,1H),5.54(d,J＝7.8Hz,1H),5.42(m,1H,与HDO峰融合),5.27(d,J＝7.7Hz,1H),5.07(d,J＝7.8Hz,1H),4.81(d,J＝7.8Hz,1H),4.78(d,J＝8.2Hz,1H),3.72(m,1H),3.63(s,1H),1.46(s,3H),1.44(s,3H),1.31(d,J＝2.7Hz,3H),1.23(s,3H),0.97(m,9H),0.68(s,3H);^{13}C NMR(101MHz,吡啶)δ214.64,140.98,118.93,106.43,105.29,104.92,104.74,104.54,103.82,92.48,85.70,81.63,81.31,78.67,78.45,78.38,78.27,78.20,77.78,77.63,77.09,76.95,76.42,75.79,75.25,75.07,72.82,72.22,71.61,71.39,71.34,70.14,63.26,62.63,62.61,62.42,49.76,49.56,49.26,49.07,43.98,41.79,40.71,36.04,28.12,27.01,25.86,24.61,20.26,18.83,18.32,17.12;ESI-MS,1447.48$(MH)^+$,1445.96$(M-H)^-$;分子式,$C_{66}H_{110}O_{34}$。

[0871] 实施例44:化合物29的分离

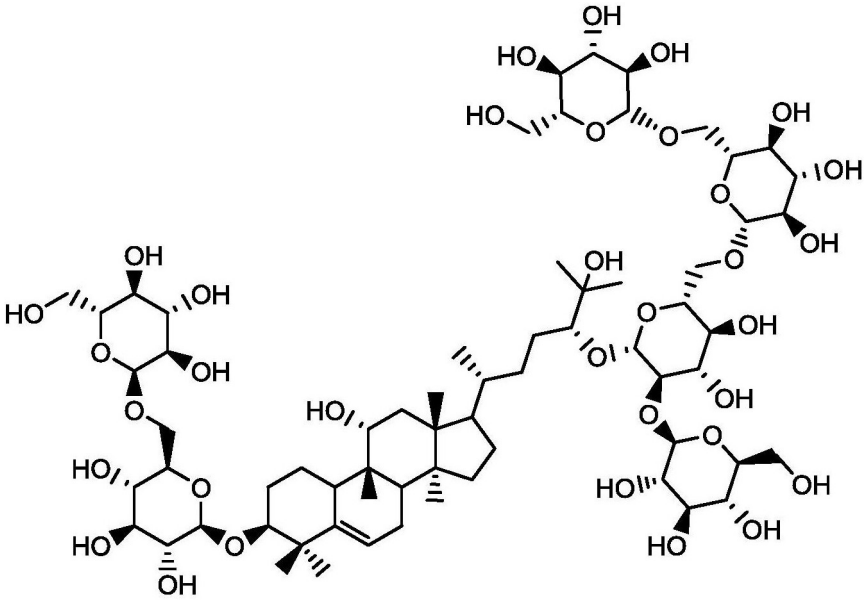
[0872] 

[0873] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10％→30％B的A/B梯度(A＝水,B＝乙腈)通过160份注射剂进行分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分10中洗脱。将795mg级分10使用95％至5％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上按13个运行进一步纯化,持续21分钟,然后以95％再平衡(总运行时间＝30.5分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分2含有期望的产物,并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干2天以得到具有约85％纯度的167mg蓬松白色固体。

[0874] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.48(d,J＝7.8Hz,2H),5.13(d,J＝7.8Hz,1H),4.86(d,J＝7.5Hz,1H),4.82(m,1H),4.78(t,J＝7.4Hz,2H),4.73(m,1H),3.72(d,J＝9.2Hz,1H),3.68(s,1H),1.46(d,J＝2.0Hz,3H),1.43(s,3H),1.30(s,6H),1.24(s,2H),1.13(d,J＝6.2Hz,2H),1.03(s,3H),0.82(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ142.99,119.23,106.84,105.10,104.99,104.67,103.73,92.45,87.25,81.54,78.50,

78.34,78.31,78.21,78.08,77.73,77.29,76.35,75.68,75.18,75.01,72.80,72.25,72.04,71.54,71.40,71.32,71.19,69.99,63.32,62.58,62.39,51.45,49.77,45.73,41.85,41.82,40.63,39.89,39.16,36.56,35.22,33.40,29.30,28.39,28.18,26.96,25.86,24.70,24.54,23.93,22.97,19.15,18.23,18.08;ESI-MS 1287.84$(MH)^+$,1285.89$(M-H)^-$,分子式,$C_{60}H_{102}O_{29}$。

[0875] 实施例45:化合物30的分离

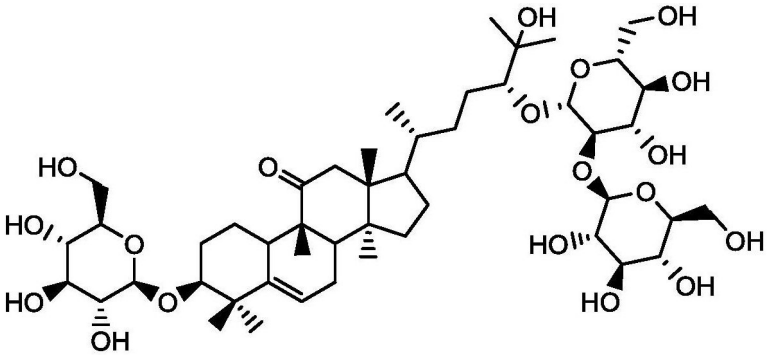
[0876] 

[0877] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10%→30%B的A/B梯度(A=水,B=乙腈)通过160份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分14中洗脱。将合并的级分14(1.24g)使用70%至20%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上按29个运行进一步纯化,持续21分钟,然后以70%再平衡(总运行时间=30.5分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分8含有期望的产物并且进行合并,在减压下浓缩,然后添加2mL H_2O,并且将样品冻干48小时以得到具有90%纯度的240mg蓬松白色固体。

[0878] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.50(m,1H),5.45(m,1H,与HDO峰融合),5.41(d,J=3.6Hz,1H),4.98(d,J=7.8Hz,1H),4.84(m,2H),4.79(d,J=7.7Hz,1H),4.74(d,J=7.8Hz,1H),3.70(d,J=9.1Hz,1H),3.61(brs,1H),1.45(s,3H),1.42(s,3H),1.28(s,6H),1.03(d,J=8.5Hz,6H),0.86(s,3H),0.84(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.38,118.36,106.80,105.19,104.87,104.63,103.75,100.06,92.49,87.48,81.36,78.52,78.25,78.04,77.86,77.66,76.97,76.31,76.12,75.66,75.14,75.02,74.74,73.85,73.71,72.85,72.76,72.19,71.75,71.58,71.29,71.14,70.03,67.75,63.26,62.34,50.80,49.62,47.37,43.45,42.26,40.76,40.07,36.62,36.31,34.49,33.26,29.17,28.52,27.58,26.94,26.89,26.24,24.49,19.40,19.07,17.02;ESI-MS,

1447.89(M-H)⁻;分子式,$C_{66}H_{112}O_{34}$。

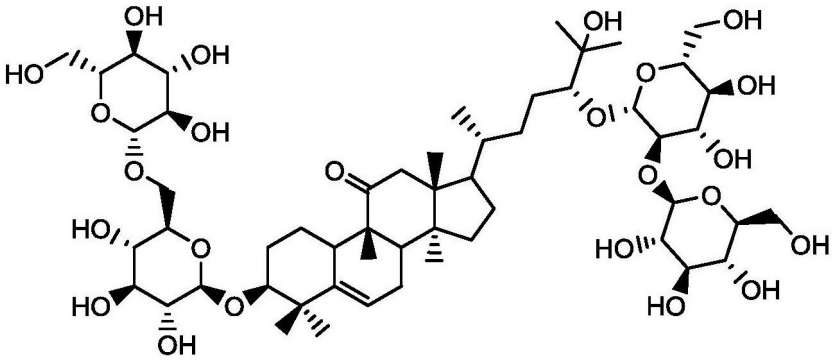
[0879] 实施例46:11-氧代-$MIII_E$的分离

[0880] 

[0881] 罗汉果的粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)得自Xi'an Heking Bio-tech Co.,Ltd。将约1.00g的样品仔细地称重,并且溶解于7.0m水中,并且分成2份相等的注射剂。以这种方式运行总计60份注射剂,合并重量为30.0g罗汉果提取物。在使用Atlantis T3C_{18}柱(5X 10cm)和ACN/水梯度的Waters自动纯化系统上完成纯化。方法为t＝0min,1％,50mL/min→t＝0.75min,1％,100mL/min;t＝2.00min,1％,100mL/min;t＝2.10min,10％,100mL/min;t＝30.1min,30％,100mL/min;t＝30.2min,95％,100mL/min;t＝35.2min,95％,100mL/min;t＝35.3min,1％,100mL/min;t＝42.3min,1％,100mL/min,从20.0min收集至30.8min(36个级分,每个级分30mL)。将期望的化合物连同其他的异构体在级分28中洗脱。将合并的级分在C18HPLC(3X 10cm Atlantis prep T3OBD柱,5um,Waters)上使用15％→30％B的A/B梯度(A＝水,B＝乙腈)通过2份注射剂来进一步纯化,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝45分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。级分23含有期望的产物并且进行合并,在减压下浓缩,然后添加1mL H_2O,并且将样品冻干48小时,以得到具有90％纯度的19mg蓬松白色固体。

[0882] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.42(m,1H,与HDO峰融合),5.37(d,J＝8.0Hz,1H),4.99(d,J＝7.8Hz,1H),4.80(d,J＝7.8Hz,1H),3.59(brs,1H),1.49(s,3H),1.46(s,3H),1.42(s,3H),1.10(s,34H),1.05(s,3H),0.94(s,3H),0.92(s,3H),0.66(s,3H);^{13}CNMR(101MHz,吡啶)δ214.54,141.22,118.61,107.16,105.64,102.35,88.85,87.22,82.90,78.50,78.39,78.14,78.03,75.96,75.34,75.22,72.51,71.96,71.58,71.34,71.19,63.05,62.76,62.38,49.70,49.62,49.05,47.40,43.97,42.40,42.03,36.45,35.92,34.56,28.36,27.00,25.89,25.61,20.30,18.77,18.36,17.04;ESI-MS 961.85(MH)⁺,959.9(M-H)⁻,分子式,$C_{48}H_{80}O_{19}$。

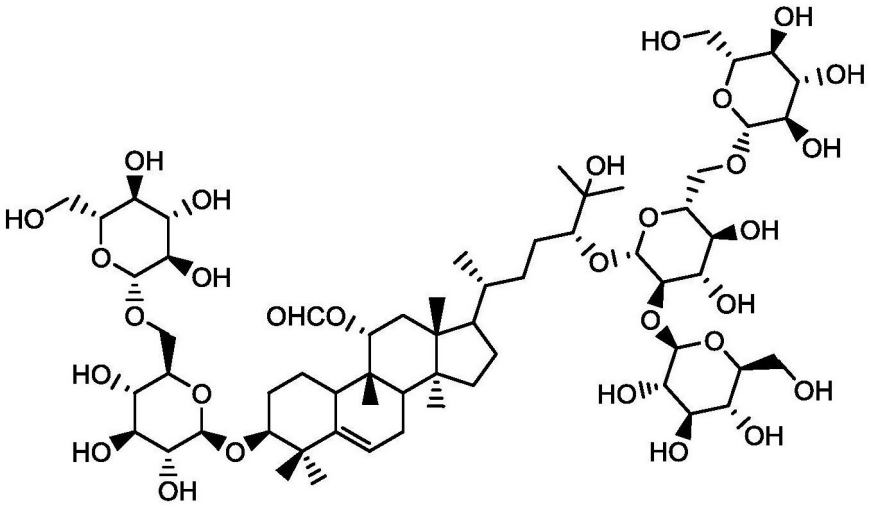
[0883] 实施例47:11-氧代-MIV_E的分离

[0884] 

[0885] 将得自Xi'an Heking Bio-tech Co.,Ltd.的11g罗汉果粉状提取物(罗汉果提取物,50％罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10％→30％B的A/B梯度(A＝水,B＝乙腈)通过360份注射剂进行分级,持续30分钟,以95％B洗涤,然后以1％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分19中洗脱。将合并的级分19使用80％至20％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic HPLC柱(3×10cm,XBridge酰胺柱,5um,Waters)上进一步分级,持续22分钟,以95％A洗涤,然后以80％再平衡(总运行时间＝30.3分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。级分4和5含有期望的产物,并且进行合并,在减压下浓缩,然后添加1mL H_2O,并且将样品冻干72小时以得到具有约85％纯度的18mg蓬松白色固体。

[0886] ^1H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,2H,与HDO峰融合),4.85(m,2H),4.80(d,J＝7.7Hz,2H),3.71(m,1H),3.58(d,J＝2.6Hz,1H),1.49(s,3H),1.43(s,3H),1.30(s,3H),1.11(s,3H),1.04(s,3H),0.96(m,6H),0.68(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ214.51,141.18,118.54,107.10,104.83,104.67,103.79,92.49,87.17,81.21,78.58,78.33,78.24,78.08,77.70,76.37,75.74,75.30,75.18,72.79,72.18,71.54,71.30,71.22,70.08,63.19,62.71,62.38,49.74,49.70,49.50,49.00,48.78,43.95,41.98,36.17,35.86,34.54,28.31,26.94,25.84,24.56,20.27,18.75,18.39,17.04;ESI-MS 1123.88$(MH)^+$,1121.89$(M-H)^-$,分子式,$C_{54}H_{90}O_{24}$。

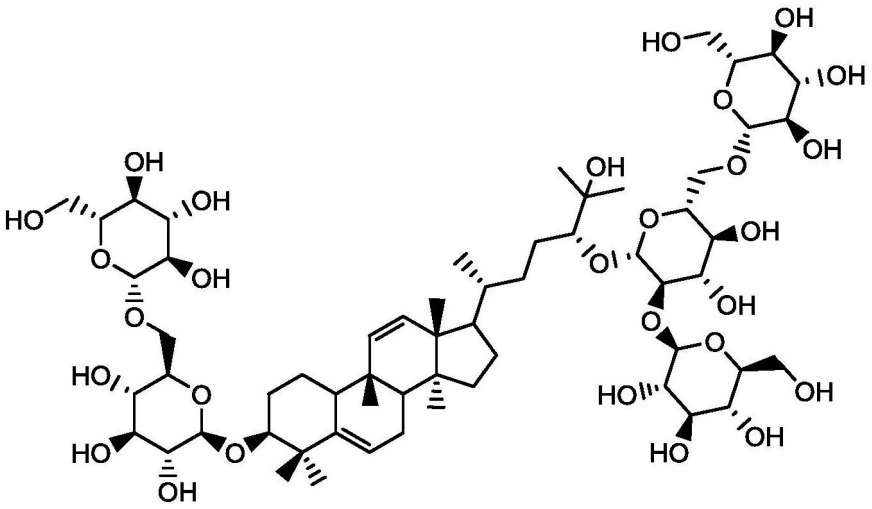
[0887] 实施例48:罗汉果苷V甲酸酯的分离

[0888] 

[0889] 将得自Xi'an Heking Bio-tech Co.,Ltd.的2g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用1%→50%B的A/B梯度(A=水+0.1%甲酸,B=乙腈)通过4份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同罗汉果苷V和其他的异构体在级分8中洗脱。将合并的级分8(700mg)使用15%→30%B的A/B梯度(A=水,B=乙腈)在氟-苯基HPLC(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上按4个运行进一步分级,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12个级分/板,1个板/运行)。将含有期望峰和期望纯度的级分(级分8)基于UPLC分析进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于2mL水中,并且冻干以得到具有约95%纯度的65mg蓬松白色固体。

[0890] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ8.50(s,1H),5.48(d,J=7.8Hz,1H),5.39(d,J=7.2Hz,1H),5.13(d,J=7.8Hz,1H),4.79(d,J=7.8Hz,1H),4.76(d,J=8.9Hz,1H),3.71(dd,J=7.1,3.5Hz,1H),3.62(d,J=2.8Hz,1H),1.45(s,3H),1.42(s,3H),1.30(s,3H),1.06(s,3H),0.99(d,J=6.6Hz,3H),0.97(s,3H),0.92(s,3H),0.82(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ162.28,143.30,118.52,106.76,104.95,104.92,104.65,103.73,92.38,87.49,81.48,80.46,78.51,78.33,78.29,78.24,78.19,78.08,78.03,77.68,77.35,76.34,75.69,75.20,75.15,74.98,72.78,72.17,71.44,71.39,71.27,71.16,70.05,69.86,63.21,62.52,62.35,50.59,49.49,49.37,47.46,43.28,42.21,40.61,39.33,36.81,36.69,35.96,34.13,33.01,29.03,28.36,27.47,26.92,26.25,26.09,25.27,24.52,24.12,19.26,18.98,16.71;ESI-MS 1315.94$(MH)^+$,1313.81$(M-H)^-$;分子式,$C_{61}H_{102}O_{30}$。

[0891] 实施例49:化合物31的分离

[0892] 

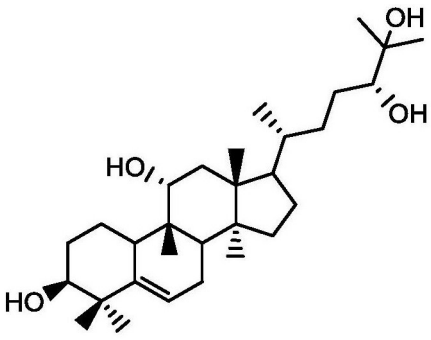
[0893] 将得自Xi'an Heking Bio-tech Co.,Ltd.的80.2g罗汉果粉状提取物(罗汉果提取物,50%罗汉果苷,浅黄色粉末)在C18HPLC(5×10cm Atlantis prep T3OBD柱,5um,Waters)上使用10%→30%B的A/B梯度(A=水,B=乙腈)通过160份注射剂进行分级,持续30分钟,以95%B洗涤,然后以1%再平衡(总运行时间=42分钟)。将各个运行样品以30mL/

级分收集在36个配衡管中(12个级分/板,3个板/运行)。将板在Genevac HT12/HT24中干燥。将期望的化合物连同其他的异构体在级分27中洗脱。将合并的级分27(223mg)使用15%→30%B的A/B梯度(A=水,B=乙腈)在氟-苯基HPLC(3×10cm,XSELECT氟-苯基OBD柱,5um,Waters)上按7个运行进一步纯化,持续35分钟,以95%B洗涤,然后以15%再平衡(总运行时间=45分钟)。将各个运行样品以30mL/级分收集在12个配衡管中(12级分/板,1板/运行)。将含有期望峰和期望纯度的级分(级分10)进行合并,并且在减压下干燥以得到白色粉状固体。将纯的化合物再悬浮/溶解于1mL水中,并且冻干以得到11mg蓬松白色固体。

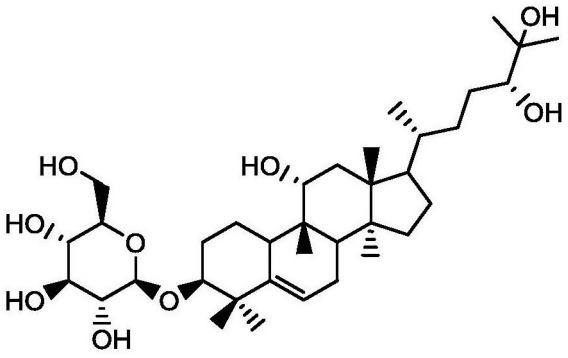
[0894] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.97(d,J=10.1Hz,1H),5.4(m,3H,与HDO峰融合),5.14(d,J=7.8Hz,1H),4.79(d,J=7.5Hz,1H),3.73(m,1H),3.63(m,1H),1.44(s,3H),1.44(s,3H),1.31(s,3H),1.12(d,J=6.3Hz,3H),0.96(s,3H),0.94(s,3H),0.84(s,3H),0.83(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ141.71,134.9(与吡啶-d_5峰融合),132.86,118.11,106.70,104.93,104.73,104.53,103.65,92.39,87.02,81.24,78.39,78.27,78.20,78.16,78.04,77.94,77.56,77.16,76.25,75.60,75.05,74.88,72.75,72.06,71.42,71.32,71.20,71.03,69.93,63.13,62.48,62.26,49.77,49.24,47.16,41.75,41.55,40.46,37.60,36.94,33.00,32.80,29.03,28.63,28.14,26.82,25.79,25.23,24.45,23.81,21.55,19.18,18.87;ESI-MS 1269.76(MH)$^{+}$,1267.69(M-H)$^{-}$;分子式,$C_{60}H_{100}O_{28}$。

[0895] 实施例50和实施例51:由果胶酶酶促产生罗汉果醇和罗汉果苷I_E

[0896]



罗汉果醇



罗汉果苷 IE

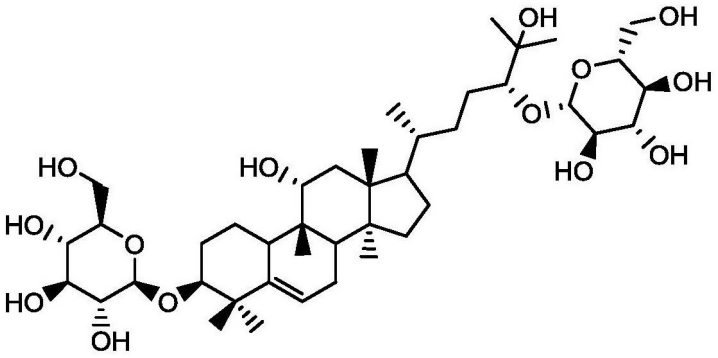
[0897] 向250mL圆底烧瓶添加1g罗汉果苷V、100mL 0.1M乙酸钠缓冲液pH 5.5和来自棘孢曲霉的70mL果胶酶,并且将烧瓶在55℃下搅拌。通过LC-MS定期地监测反应进程。8天后,将反应终止,并且用200mL乙酸乙酯萃取4次。将合并的EtOAc萃取物在减压下干燥,并且使用标准5/35/70/100%MeOH:H_2O分步梯度在60g C18SPE cartridge上进行分级。将期望的产物在100%MeOH级分中进行洗脱。将该级分使用C18柱(3×10cm Atlantis T3OBD柱,5um,Waters)并且使用1%→95%B的A/B梯度(A=水,B=乙腈)在HPLC上进一步纯化,持续50分钟,以95%B洗涤,然后以1%再平衡(总运行时间=60分钟)。将各个运行样品以30mL/级分收集在72个管中(12个级分/板,6个板/运行)。将经洗脱具有期望纯度和期望产物的级分分别进行合并,在减压下干燥并且再悬浮/溶解于2mL的水中,并且冻干约2天以得到62mg(F26-27)和190(F36-37)mg白色蓬松固体。

[0898] 罗汉果醇:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.64(d,J=5.9Hz,1H),4.19(dd,J=10.7,5.9Hz,1H),3.81-3.76(m,1H),3.74(d,J=2.8Hz,1H),1.55(s,3H),1.52

(s,3H),1.42(s,3H),1.36(s,3H),1.18(s,3H),1.00(d,J＝6.2Hz,3H),0.91(brs,3H),0.88(s,3H);ESI-MS 477.47(MH)+;分子式,$C_{30}H_{52}O_4$。

[0899] 罗汉果苷IE:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.48(d,J＝6.0Hz,OH),4.85(d,J＝7.8Hz,OH),3.77(dd,J＝9.0,2.5Hz,OH),3.65(d,J＝2.8Hz,OH),1.55(s,1H),1.53(s,1H),1.51(s,1H),1.29(s,1H),1.13(s,1H),0.99(d,J＝6.1Hz,1H),0.86(s,1H),0.85(s,1H);ESI-MS 639.9$(MH)^+$,637.63$(M-H)^-$,分子式,$C_{36}H_{62}O_9$。

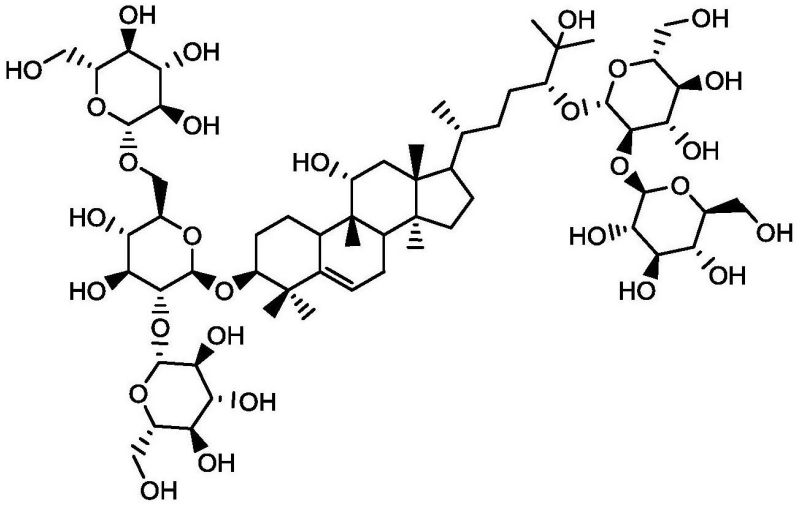
[0900] 实施例52:罗汉果苷IIE的酶促产生

[0901] 

[0902] 向250mL圆底烧瓶添加200mg纯的罗汉果苷V、18mL水、660uL 1M pH 5.0乙酸钠缓冲液和来自棘孢曲霉的350uL果胶酶(得自Sigma,组#SLBM6360V),并且在50℃下搅拌。通过LC-MS定期地监测反应进程。24小时后,将反应用50mL乙醇淬灭,并且在Genevac上去除溶剂。将反应混合物使用C18柱(3x 10cm Atlantis T3OBD柱,5um,Waters)并且使用1%-95%B的A/B梯度(A＝水,B＝乙腈)在RP-HPLC上进一步纯化,持续50分钟,以95%B洗涤,然后以1%再平衡(总运行时间＝61分钟)。将运行样品以30mL/级分收集在72个管中(12个级分/板,6个板/运行)。将期望的化合物在级分23中洗脱,并且在减压下干燥。将纯的化合物再悬浮/溶解于2mL水中,并且冻干以得到具有95%纯度的18.8mg蓬松白色固体。

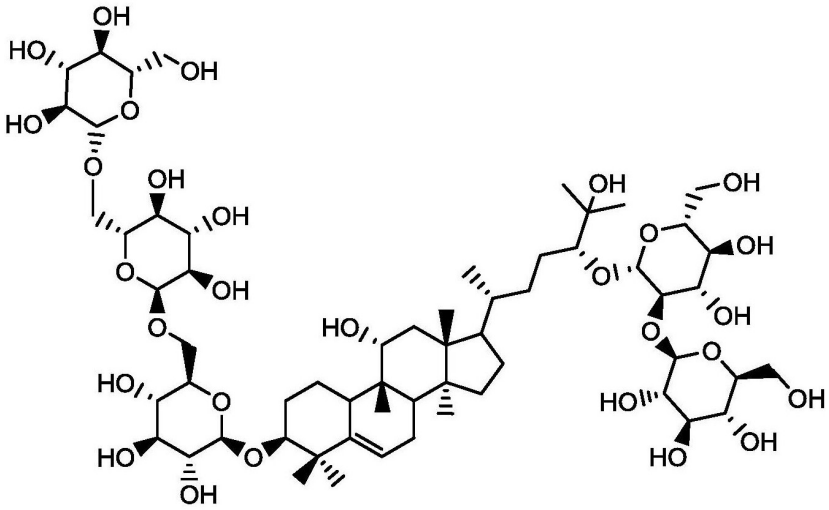
[0903] ^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.45(m,1H,与HDO峰融合),4.95(d,J＝7.8Hz,1H),4.83(d,J＝7.8Hz,1H),3.85(dd,J＝8.5,2.1Hz,1H),3.64(brs,1H),1.50(s,3H),1.40(s,3H),1.37(s,3H),1.27(s,3H),1.11(s,3H),0.92(d,J＝6.3Hz,3H),0.85(s,3H),0.78(s,3H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.29,118.53,107.14,105.61,90.30,87.82,78.50,78.30,78.25,77.98,77.76,75.29,75.17,72.22,71.58,71.51,62.76,62.47,50.81,49.66,47.36,43.48,42.36,40.85,40.08,36.77,36.48,34.53,33.45,29.51,28.29,27.67,26.82,26.77,26.28,26.25,25.13,24.54,19.31,18.85,16.99;ESI-MS 801.73$(MH)^+$,799.74$(M-H)^-$,分子式,$C_{42}H_{72}O_{14}$。

[0904] 实施例53和实施例54:化合物32和化合物33的酶促产生



化合物 32

[0905]



化合物 33

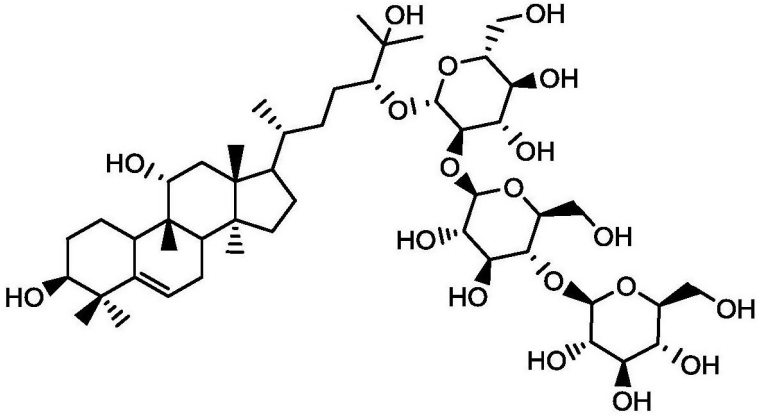
[0906] 向1L圆底烧瓶添加10g罗汉果苷50％粉末、500mL 0.1M乙酸钠缓冲液pH5.0和来自棘孢曲霉的10mL果胶酶，并且在50℃下搅拌。通过LC-MS定期地监测反应进程。6小时后，将反应用500mL乙醇淬灭。将该过程每次使用10g罗汉果苷V再重复两次，并且将剩余的反应呈线性扩大规模。将合并的3个批次(总计30g)在减压下干燥，并且使用标准5/35/70/100MeOH:H_2O梯度在400g SPE cartridge上进行分级。将期望的罗汉果苷在70％MeOH级分中进行洗脱。将该级分使用C18柱(5X 10cm Atlantis T3OBD柱,5um,Waters)并且使用10％→30％B的A/B梯度(A＝水,B＝乙腈)在HPLC上进一步分级，持续30分钟，以95％B洗涤，然后以10％再平衡(总运行时间＝42分钟)。将各个运行样品以30mL/级分收集在36个管中(12个级分/板,3个板/运行)。级分10洗脱了两种罗汉果苷V异构体，连同其他的少数异构体。将该级分使用80％至20％B的A/B梯度(A＝3:1MeOH:H_2O,B＝乙腈)在Hilic 3×10cm HPLC柱上进一步纯化，持续22分钟，然后以80％洗涤并且再平衡(总运行时间＝30分钟)。将各个运行样品以30mL/级分收集在12个级分中(12个级分/板,1个板/运行)。将经洗脱具有期望纯度和期望产物的级分分别进行合并、在减压下干燥，并且再悬浮/溶解于2mL水中，以及冻干约2天以得到68mg(F6)和42(F11-12)mg的白色蓬松固体。

[0907] 化合物32:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.44(m,1H,与HDO峰融合),5.35(d,J=7.8Hz,1H),5.21(d,J=7.7Hz,2H),5.00(d,J=7.7Hz,1H),4.91(d,J=7.9Hz,1H),1.51(s,3H),1.46(s,3H),1.41(s,3H),1.26(s,3H),1.10(s,3H),1.03(d,J=6.3Hz,3H),0.81(s,6H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.43,118.36,106.37,106.32,105.70,102.95,102.20,88.69,86.70,84.47,83.06,78.69,78.44,78.37,78.30,78.22,78.16,77.99,77.85,76.75,76.35,75.89,75.36,72.45,71.93,71.62,71.20,71.13,70.96,70.19,63.08,62.32,62.25,50.74,49.66,47.38,43.48,42.38,40.76,40.09,36.72,36.64,34.50,33.81,29.62,28.57,27.66,26.97,26.92,26.26,26.16,25.53,24.54,19.36,19.10,17.01;ESI-MS 1287.89(MH)$^+$,1285.91(M-H)$^-$;分子式,$C_{60}H_{102}O_{29}$。

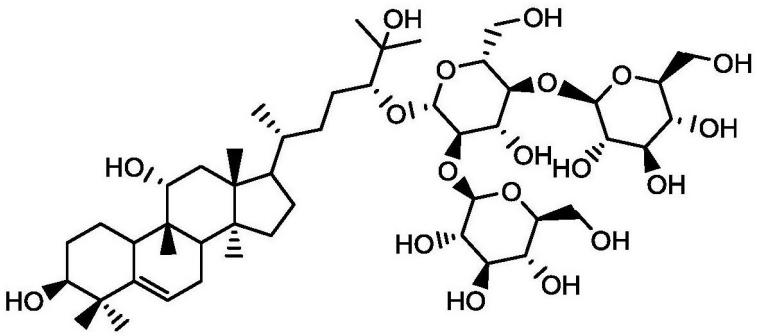
[0908] 化合物33:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.45(m,2H,与HDO峰融合),5.35(m,1H),5.00(d,J=7.8Hz,2H),4.76(d,J=7.8Hz,1H),3.88(d,J=8.1Hz,2H),3.63(s,1H),1.45(s,6H),1.41(s,3H),1.28(s,3H),1.05(s,3H),1.02(d,J=6.2Hz,3H),0.82(s,6H);^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.42,118.42,106.85,105.70,105.25,102.21,100.12,88.70,87.47,83.05,78.44,78.37,78.31,78.11,78.04,77.99,77.86,77.04,76.17,75.90,75.19,75.07,74.79,73.90,73.77,72.46,71.94,71.82,71.63,71.41,71.14,70.18,67.83,63.09,62.41,62.32,50.74,49.67,47.38,43.48,42.30,40.77,40.11,36.68,34.52,33.82,29.42,28.62,28.52,27.63,26.93,26.25,25.52,24.54,19.37,19.08,17.02;ESI-MS 1287.82(MH)$^+$,1285.94(M-H)$^-$;分子式,$C_{60}H_{102}O_{29}$。

[0909] 实施例55和实施例56:化合物34和化合物35的酶促产生

[0910]



化合物 34



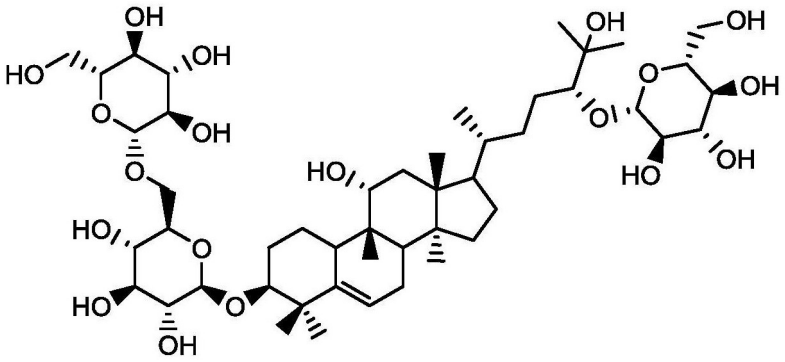
化合物 35

[0911] 向250mL三角烧瓶中添加1g粗制罗汉果苷III_E、53mL水、15mL1M乙酸钠缓冲液pH5、来自Novozymes的7ml纤维素酶和75gα-乳糖，并且将烧瓶以220rpm在50℃下摇动9天。通过LC-MS分析定期地监测反应进程。将相同的反应再重复17次，总计18g罗汉果苷III_E，分为两个批次。9天后，在SPE纯化之前，将来自反应混合物的未反应的酶和过量的乳糖按照以下三个步骤来去除。将反应混合物以5000rpm离心约10min以去除过量的乳糖，然后在500rpm的磁力搅拌下在80℃孵育30min。再添加约10％的NH_4SO_4溶液以便沉淀未反应的酶和糖，然后以5000rpm离心10min并且去除沉淀。将上清液通过0.22μm PES过滤，并且装载至400g SPE C18柱上，并且使用标准5/35/70/100MeOH:H_2O分步梯度进行分级。将期望的化合物在70％甲醇级分中进行洗脱。将合并的70％SPE级分(12g)使用PF柱并且使用15％至30％B的A/B梯度(A＝水，B＝乙腈)在RP-HPLC上进一步纯化，持续35分钟，以95％B洗涤，然后以15％再平衡(总运行时间＝45分钟)。将各个运行样品以7.5mL/级分收集(2个收集窗，每个收集窗36个级分)在72个管中(12个级分/板，6个板/运行)。级分45-48和51-54含有具有期望纯度的期望峰，并且基于UPLC分析分别进行合并，并且在减压下干燥以得到白色粉状固体。将来自这些级分的纯的化合物再悬浮/溶解于2mL水中，并且冻干约3天，分别得到135mg和120mg的白色固体。

[0912] 化合物34:^{1}H NMR(400MHz,吡啶-d_5+D_2O)，选择的信号:δ5.62(d,J＝6.0Hz,1H)，5.24(d,J＝7.8Hz,1H)，5.01(d,J＝7.8,Hz,2H)，3.85(dt,J＝6.3,3.4Hz,1H)，3.70(d,J＝2.9Hz,1H)，1.44(s,3H)，1.39(brs,6H)，1.33(s,3H)，1.17(s,3H)，1.02(d,J＝6.4Hz,3H)，0.89(s,3H)，0.84(s,3H)；^{13}C NMR(101MHz,吡啶-d_5+D_2O)δ144.14,119.11,105.71,105.64,101.83,87.86,83.58,82.68,78.40,78.06,77.89,77.19,76.49,76.22,76.16,75.55,74.95,72.41,72.28,71.13,69.78,62.45,62.26,61.81,50.80,49.71,47.40,43.57,42.27,40.85,40.15,36.73,34.54,33.96,30.64,28.69,28.53,27.31,26.71,26.65,26.21,25.89,25.55,24.60,19.37,19.03,17.01;ESI-MS,963.84$(MH)^+$,961.85$(M-H)^-$;分子式,$C_{48}H_{82}O_{19}$。

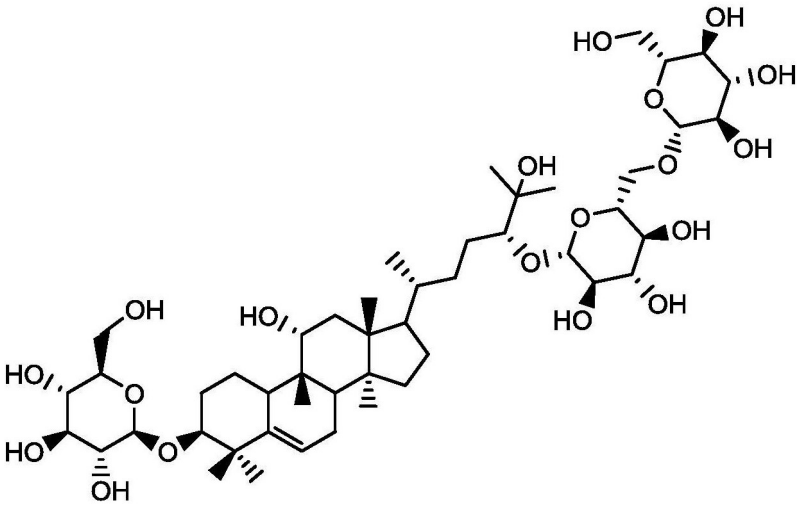
[0913] 化合物35:^{1}H NMR(400MHz,吡啶-d_5+D_2O)，选择的信号:δ5.60(d,J＝6.3Hz,1H)，5.00(d,J＝7.9Hz,1H)，4.91(d,J＝7.7Hz,1H)，3.79(dd,J＝7.8,2.3Hz,2H)，3.70(t,J＝2.8Hz,2H)，1.43(s,3H)，1.39(s,6H)，1.34(d,J＝2.8Hz,3H)，1.15(s,3H)，1.0(m,3H)，0.91(s,3H)，0.83(s,3H)；ESI-MS,963.81$(MH)^+$,961.92$(M-H)^-$;分子式,$C_{48}H_{82}O_{19}$。

[0914] 实施例57和实施例58:罗汉果苷III_{A2}和罗汉果苷III的酶促产生



罗汉果苷 III_{A2}

[0915]



罗汉果苷 III

[0916] 向100mL烧瓶添加1g罗汉果苷V、50mL 0.1M乙酸钠缓冲液pH5和200mg真菌乳糖酶(Enzyme Development),并且在50℃下搅拌。通过LC-MS定期地监测反应进程。24小时后,将反应通过在80℃下加热30分钟来终止,并且以4000rpm离心10分钟。再将过滤的上清液用1mLα-淀粉酶(Sigma)处理,并且在室温下搅拌3天。通过LC-MS定期地监测反应进程。将反应通过在80℃下加热30分钟来终止,并且以4000rpm离心10分钟。将上清液体积通过旋转蒸发减小,并且装载至60g C18SPE柱上,以及使用5/35/70/100MeOH:H_2O分步梯度进行分级。将期望的产物在70%MeOH级分中进行洗脱,并且使用80%至40%B的A/B梯度(A=3:1MeOH:H_2O,B=乙腈)在HILIC柱上进一步纯化,持续26分钟,然后以80%再平衡(总运行时间=30分钟)。将各个运行样品以30mL/级分收集在24个级分中(12个级分/板,2个板/运行)。将经洗脱具有期望产物的级分分别进行合并,在减压下干燥,并且再悬浮/溶解于1mL水中,以及冻干约2天以得到具有约90%纯度呈白色蓬松固体状的24mg F4和62mg F6-7。

[0917] 罗汉果苷III_{A2}:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.45(m,1H,与HDO融合),4.88(m,1H),4.84(t,J=7.9Hz,2H),4.79(d,J=7.7Hz,1H),3.72(d,J=8.8Hz,1H),3.64(d,J=2.9Hz,1H),1.50(s,3H),1.38(s,3H),1.28(s,3H),1.27(s,3H),1.11(s,3H),0.89(d,J=6.3Hz,3H),0.86(s,3H),0.78(s,3H);ESI-MS,963.91$(MH)^+$,961.85$(M-H)^-$;分子式,$C_{48}H_{82}O_{19}$。

[0918] 罗汉果苷III:^{1}H NMR(400MHz,吡啶-d_5+D_2O),选择的信号:δ5.45(m,1H,6-H,与HDO

融合),5.11(d,J＝7.8Hz,1H,G3-1H),4.95(d,J＝7.8Hz,1H,G1-1H),4.78(d,J＝7.8Hz,1H,G2-1H),3.85(1H,m,24-H),3.68(d,J＝2.8Hz,1H,3-H),1.47(s,3H,28-Me),1.41(s,3H,26-Me),1.37(s,3H,27-Me),1.29(s,3H,19-Me),1.08(s,3H,29-Me),0.93(d,J＝6.3Hz,3H,21-Me),0.84(s,2H,30-Me),0.77(s,3H,18-Me);ESI-MS,963.84$(MH)^+$,961.92$(M-H)^-$;分子式,$C_{48}H_{82}O_{19}$。

[0919] 实施例59:甜化包

[0920] 通过使式(I)的化合物、(D)-葡萄糖、麦芽糖糊精和抗结块剂混合来制备含有即用甜味剂组合物的包。然后将混合物分配至单独的纸包,使得各个包含有约60毫克式(I)的化合物连同890毫克(D)-葡萄糖、40毫克麦芽糖糊精和10毫克抗结块剂。各个含有约1.0克甜味剂组合物的包提供了两茶匙糖的甜味。

[0921] 实施例60:液体浓缩物制剂/稀释剂

[0922] 通过使以下成分混合来制备浓缩的液体制剂:式(I)的化合物、柠檬酸三钠、磷酸、碳酸钙、一种或多种增味剂、一种或多种防腐剂、一种或多种着色剂以及任选的螯合剂。然后将混合物溶解于水和丙二醇的溶液中。

[0923] 实施例61:粉末浓缩物制剂/稀释剂

[0924] 通过使以下成分混合来制备浓缩的粉末制剂:式(I)的化合物、柠檬酸三钠、磷酸、碳酸钙、一种或多种增味剂、一种或多种抗结块剂、一种或多种防腐剂、一种或多种着色剂、以及任选的螯合剂。

[0925] 实施例62:饮料产品

[0926] 饮料产品混合以下成分:式(I)的化合物、柠檬酸三钠、磷酸、碳酸钙、一种或多种增味剂、一种或多种防腐剂、一种或多种着色剂以及任选的螯合剂。然后将混合物溶解于水以实现适于消耗的味道和稠度,并且相应地进行包装。任选地,可以将水碳酸化。

[0927] 实施例63:HTS-甜

[0928] 在FLIPR仪器(Fluorometric Intensity Plate Reader,Molecular Devices,Sunnyvale,CA)上使用自动荧光成像测定来确定化合物活性(EC_{50})。将稳定表达人甜味受体和混栖G蛋白的细胞接种至384孔板中(按照每孔约40,000个细胞)。使细胞在37℃下生长24小时。然后将细胞在用磷酸盐缓冲盐水中(D-PBS)(Invitrogen,Carlsbad,CA)的4μM钙染料Fluo-4AM(Molecular Probes,Eugene,OR)室温下加载1小时。用25μl D-PBS替代后,在FLIPR仪器中并且在室温下通过添加25μl补充有不同刺激物(浓度为期望的最终水平的两倍)的D-PBS来进行刺激。在标准化至刺激前测量的基本荧光强度之后,通过确定最大荧光增大(使用480nm激发和535nm发射)来定量受体活性。所选化合物的活性(EC_{50})示于下文的表1中。级别"A"表示EC_{50}小于17μM。级别"B"表示EC_{50}为17μM至30μM。级别"C"表示EC_{50}大于30μM。

[0929] 为了进行剂量-反应分析,将刺激物以0.4μM至200μM的10个不同浓度准备两份。使用非线性回归算法来确定EC_{50},其中允许Hill斜率、底部渐进线和顶部渐近线变化。为了确定应答于不同刺激物的细胞的hT1R2/hT1R3的依赖关系,使所选的化合物在亲本细胞(不表达人甜味受体)上经受类似的分析。

[0930] 表1:对于hT1R2/hT1R3的化合物EC_{50}

[0931]

化合物	EC_{50}
化合物 1	A
化合物 2	B
化合物 3	A
化合物 4	A
化合物 5	B
化合物 6	A
化合物 7	A
化合物 8	A

[0932]

化合物 9	B
化合物 10	A
化合物 11	C
化合物 12	B
化合物 13	B
化合物 14	A
化合物 15	A
化合物 16	B
化合物 17	A
化合物 18	A
化合物 19	A
化合物 20	A
化合物 21	A
化合物 23	A
化合物 29	C
化合物 30	C
化合物 31	C
化合物 32	C
化合物 33	C
化合物 34	C
化合物 35	B

[0933] 感觉研究

[0934] 实施例64:成对的比较测试

[0935] 将成对的比较测试(2选1强制选择差异测试,即,2-AFC)用于确定使用瑞鲍迪苷A与测试甜味化合物制备的样品之间的甜味强度等效值。将经过训练的外部专业小组成员用于味道测试。

[0936] 2-AFC测试,相对于300ppm瑞鲍迪苷A测试化合物溶液,以确定他们在甜味强度中

如何匹配。专业小组成员品尝两个样品，并且确定每一对中哪个样品更甜。专业小组成员在开始进行任何测试之前用水漱口。样品以随机、平衡的对提供至专业小组成员，并且用3位盲法编码标记。专业小组成员在样品之间以及对之间用水漱口。在每一对评估之后，有90秒延迟来清除口腔中的任何味道。各个测试进行三次重复。

[0937] 使用双尾检验的概率表(α＝0.05)，分析2-AFC数据以确定300ppm瑞鲍迪苷A与化合物溶液之间的显著性差异。

[0938] 使用0.25mL的样品量来进行成对的比较测试，并且所有样品由低钠缓冲液(LSB)pH约7.1来制备，并且含0％乙醇。专业小组成员发现300ppm化合物18明显比300ppm瑞鲍迪苷A更甜($p<0.05$)(表2)；250ppm化合物18与300ppm瑞鲍迪苷A的甜味没有显著差异($p>0.05$)(表3)；并且300ppm瑞鲍迪苷A与300ppm化合物1的甜味没有显著差异($p>0.05$)(表4)。类似地，发现化合物2-17、19-21和23至少与瑞鲍迪苷A一样甜。

[0939] 表2：专业小组成员选择作为甜味剂的样品，n＝42(14个专业小组成员×3次重复)。效能(Power)＝84％

[0940]

样品	总计
300ppm瑞鲍迪苷A	14
300ppm化合物18	28
总计	42
p-值	0.044

[0941] 表3：专业小组成员选择作为甜味剂的样品，n＝36(12个专业小组成员×3次重复)。效能＝75％

[0942]

样品	总计
300ppm瑞鲍迪苷A	16
250ppm化合物18	20
总计	36
p-值	0.681

[0943] 表4：专业小组成员选择作为甜味剂的样品，n＝45(15个专业小组成员×3次重复)。效能＝84％

[0944]

样品	**总计**
300ppm 瑞鲍迪苷 A	29

[0945]

300ppm 化合物 1	16
总计	45
p-值	0.072

[0946] 实施例65：检查所有适用的测试

[0947] 将检查所有适用的测试(即，CATA)用于确定样品中(包括瑞鲍迪苷A和测试甜味化

合物)的异味的存在。使用经过训练的外部专业小组成员进行味道测试。

[0948] 在CATA测试中,将化合物溶液连同300ppm瑞鲍迪苷A一起测试以确定各种属性的存在。专业小组成员品尝样品,并且被提供了属性清单,然后被要求指出在各个样品中他们感受到了哪些属性。专业小组成员在开始任何测试之前进行漱口。样品以随机、平衡的顺序提供至专业小组成员,并且用3位盲法编码标记。专业小组成员在样品之间用水漱口。在每个样品评估之后,有60秒延迟来清除口腔中的任何味道。各个测试进行一次重复。

[0949] 将CATA数据以选择测试中每个样品的每个属性的专业小组成员的百分比进行列表和呈现。将这些研究用于得到对化合物的整体味道特性的定性感觉。该测试发现了任何的明显的不希望的异味。查询的属性包括茴芹、涩味、苦味、冷却、延迟起效、残留、金属、麻木、盐、溶剂、酸味、甜味和鲜味。测试了本文描述的化合物,包括化合物1至35。结果表明化合物具有高度的甜味,并且具有低水平的异味(例如,低水平的苦味异味)。

[0950] 尽管本发明参考其具体实施方案进行了描述,本领域技术人员应理解,在不偏离本发明的真实主旨和范围的情况下,可以进行各种修改并用等价物替换。这包括未提供本文阐述的所有益处和特征的实施方案。另外,可以进行很多修改,以便使具体的情况、材料、物质的组合物、方法、方法步骤或步骤来适应本发明的目的、主旨和范围。所有此类修改意在包含于其附随权利要求的范围内。因此,本发明的范围仅参照附随权利要求来限定。