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CAPSULE POUR LA PRÉVENTION DES MALADIES CARDIOVASCULAIRES

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Description**Field of the art**

5 **[0001]** The invention relates to pharmaceutical compositions for the prevention of cardiovascular diseases in high-risk patients. More specifically, the invention relates to a capsule comprising a combination of acetylsalicylic acid, an inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase chosen from a simvastatin compound and a pravastatin compound, and an inhibitor of the angiotensin converting enzyme (ACE) chosen from a lisinopril compound, a ramipril compound and a perindopril compound.

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State of the art

[0002] Cardiovascular disease is the main cause of mortality and morbidity in the developed world and it is becoming the main cause of mortality and morbidity worldwide. Although cardiovascular risk factors are well known, control thereof is below optimal, even in the most developed countries. Changes in eating habits and lifestyle undoubtedly reduce cardiovascular risk. Nevertheless, not enough work has been carried out to identify the most efficient and cost-effective way of implementing these changes in lifestyle. On the other hand, the treatment and prevention of cardiovascular disease is expensive and its cost is increasing.

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[0003] The low compliance with prescribed and self-administered treatments is well known to be a great problem in treating chronic diseases, such as in the case of cardiovascular disease. Compliance with chronic treatments is estimated at 50% in developed countries. The implications of poor compliance with treatments are important both for the individual and for society. For the patient, treatment benefits are reduced, producing infra-treatment and making it more difficult for the clinician to evaluate its effectiveness and to determine the best dosage for such treatments. For society, poor compliance leads to generating chemical waste, an increase in health costs and self-medication.

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[0004] Dosage complexity and adverse effects are the factors related to the drug that most affect prescription compliance. Both dosage complexity and adverse effects rapidly increase with the use of multiple therapies for the disease to be treated or with the treatment of more than one disease in the same patient, giving rise to less compliance with the medication.

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[0005] In this context, Wald and Law (Br. Med. J. 326, No. 7404, 1419-23, 2003) defined the term "polypill", referring to the combination of drugs such as statins, anti-hypertensive agents, aspirin and vitamins, such as folic acid, for use in a single daily intake. The term statins includes 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase-inhibiting compounds. And aspirin has the chemical name acetylsalicylic acid. These authors recommend the use of the polypill as the way to achieve an important effect in the prevention of cardiovascular disease with minimal adverse effects based on a meta-analysis carried out with random short-term clinical studies. The strategy of the polypill containing several effective components for decreasing cardiovascular risk factors would thus prevent a high incidence of heart attacks and strokes. They concluded that the polypill strategy would be safe and that its generalized use would have a greater impact in cardiovascular disease prevention in occidental countries than any other intervention and they estimated that the polypill could reduce the incidence of coronary disease and ictus in up to 88 and 80%, respectively.

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[0006] The authors analysed the most suitable patients for polypill intake. The candidates would be patients who had suffered an acute coronary syndrome or a brain ischaemic attack, patients with stable chronic angina, transitory ischaemic episodes and diabetics. Among the population without prior disease, the most determining factor is age such that 96% of deaths by acute coronary syndrome or ictus occur in people over 55 years of age, and preventive treatment for people over 55 years of age would prevent almost all of these deaths. That is, the best strategy would be to treat all patients with ischaemic disease and all people over 55 years of age.

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[0007] Several patents have thus been published regarding polypills for cardiovascular use.

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[0008] Patent application US2004219208 deals with sustained release medicinal products comprising an angiotensin II antagonist combined with one or more drugs chosen from compounds used in hypertension, hypoglycaemic drugs, lipid-lowering agents, anti-thrombotics, products for menopause and cytostatic drugs.

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[0009] Patent US6576256 deals with the combination of a hypocholesterolaemic drug such as an HMG-CoA reductase inhibitor, a renin-angiotensin system inhibitor, such as an ACE inhibitor, aspirin and at least one vitamin chosen from Vitamin B6, Vitamin B12 and folic acid.

[0010] Patent application WO03/020243 deals with the combination of a lipid-lowering agent, a renin-angiotensin system inhibitor and aspirin, and optionally at least one vitamin chosen from Vitamin B6, Vitamin B12 and folic acid.

[0011] Patent application WO2004/080488 deals with combinations of acetylsalicylic acid, HMG-CoA reductase inhibitors and anti-hypertensive substances chosen from calcium antagonists, ACE inhibitors, angiotensin II antagonists and diuretics.

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[0012] Patent application WO2005/011586 deals with the combination of a β -adrenergic receptor antagonist or a diuretic, or both, a hypocholesterolaemic drug such as an HMG-CoA reductase inhibitor, a renin-angiotensin system

inhibitor such as an ACE inhibitor, and aspirin.

[0013] Patent application WO2005/025673 deals with the combination of a hypoglycaemic agent of the biguanid family such as metformin, a lipid-lowering agent chosen from HMG-CoA reductase inhibitors, bile acid sequestrants, probucol and fibric acid compounds, and an antihypertensive chosen from renin-angiotensin system inhibitors, which may in turn be chosen from ACE inhibitors, angiotensin II antagonists and renin inhibitors, β -blockers, diuretics and calcium channel antagonists. The invention also relates to the presence of other optional components such as platelet anti-aggregating agents of the salicylate family, such as acetylsalicylic acid amongst others, and of various vitamin derivatives.

[0014] Patent application WO2006/020522 deals with various combinations to be administered at the start of several emergency symptoms, with cardiovascular symptoms amongst these. Amongst these combinations are combinations of aspirin and a statin that further comprise, amongst other chosen compounds, an ACE inhibitor.

[0015] Patent application WO2006/135415 covers nanoparticles in microemulsions, wherein the drugs to be combined may be aspirin, policosanol, atenolol, metoprolol, nadolol, propranolol, diltiazem, nifedipine, verapamil, captopril, enalapril, lisinopril, losartan, losartan in combination with hydrochlorothiazide, olmesartan, lovastatin, pravastatin, simvastatin, atorvastatin, bile acid sequestrants, cholestiramine, colestipol, gemfibrozil, clofibrate, probucol, anti-inflammatory drugs and antibiotics in general. The compositions may also include a nutritional supplement chosen from choline, folic acid, vitamin B6, vitamin B12, niacin, niacin combined chromium, vitamin C, vitamin E, coenzyme Q10 and ω -3 oils or combinations thereof.

[0016] Patent CN1785196 deals with a combination of aspirin, folic acid, simvastatin and ramipril.

[0017] Patent application US2006177504 deals with combinations of one or more anti-inflammatory agents and one or more medicinal products for the prophylaxis of ictus and cardiovascular disorders, such as aspirin, clopidogrel, ticlopidine, combinations of dipyridamole with aspirin, dipyridamole, cilostazol, pentoxifylline, HMG-CoA reductase inhibitors, ACE inhibitors, angiotensin receptor blockers, calcium channel blockers, as well as vasodilating, antihypertensive, platelet anti-aggregating agents and oral anticoagulants in general.

[0018] Patent application WO2006/105806 deals with compositions comprising a statin, a compound that suppresses the production or activity of angiotensin, an anti-inflammatory drug and at least one antioxidant. The statin can be chosen from lovastatin, simvastatin, pravastatin and fluvastatin, the compound that suppresses the production or activity of angiotensin can be chosen from angiotensin II antagonists and ACE inhibitors, such as valsartan, losartan, irbesartan,trandolapril, perindopril or ramipril, the anti-inflammatory drug is preferably acetylsalicylic acid and the antioxidant is a vitamin chosen from vitamin A, vitamin C and vitamin E.

[0019] Patent application WO2007/011524 deals with presentations for the daily intake of medicinal products comprising a hypoglycaemic agent that is a biguanid derivative, preferably metformin, a lipid-lowering agent, preferably simvastatin, an antihypertensive, preferably lisinopril, and aspirin, such that the active ingredients are presented separately in a same blister.

[0020] Patent application WO2007/027454, in connection with new dihydropyrimidines, deals with their combinations with antiplatelet agents, ACE inhibitors and lipid-lowering agents, amongst other families of pharmaceutical substances. Aspirin is cited amongst the antiplatelet agents, ramipril and lisinopril amongst the ACE inhibitors, and simvastatin and pravastatin amongst the lipid-lowering agents.

[0021] Patent application US2007116756 deals with compositions comprising therapeutic amounts of a hypocholesterolaemic agent, a renin-angiotensin system inhibitor, a diuretic, aspirin and optionally at least one β -adrenergic receptor blocker in a single-dose presentation, as well as procedures for their preparation, use and the treatment of patients with cardiovascular diseases.

[0022] Patent application WO2007/092270 deals with combinations or the combined therapy of an antiplatelet agent, a β -adrenergic receptor blocker, a RAAS (renin-angiotensin-aldosterone system) inhibitor and/or a cholesterol modifying agent, so that aspirin is amongst the possible antiplatelet agents and statins are amongst the cholesterol modifying agents. The RAAS inhibitor is a compound to be chosen from ACE inhibitors, angiotensin II antagonists and/or aldosterone blockers (spironolactone, eplerenone or derivatives thereof). Such combinations or combined therapies are claimed to reduce the mortality or morbidity caused by coronary artery diseases.

[0023] Patent CN101024082 relates to various formulations, comprised of sex hormones, lipid-lowering agents, anti-hypertensive agents, hypoglycaemic agents and anticoagulants, to be used in the prevention and treatment of cerebrovascular diseases. Statins can be found amongst the lipid-lowering agents, ACE inhibitors amongst the antihypertensives and aspirin amongst the anticoagulants.

[0024] US 2003/0049314 relates to an oral dosage form containing a combination of a therapeutically effective unit dosage of a cholesterol-lowering agent, a therapeutically effective unit dosage of an inhibitor of the rennin-angiotensin system, a therapeutically effective unit dosage of aspirin and a pharmaceutically acceptable carrier.

[0025] In India, Torrent Pharma has commercialised CVpill, the first cardiovascular polypill. CVpill is presented in a single kit containing a capsule and a tablet. The capsule contains 10 mg of atorvastatin in powder, 5 mg of ramipril in powder and a 75 mg tablet of aspirin formulated with an enteric coating. The tablet contains metoprolol succinate 50 mg formulated for delayed release. The capsule and the tablet are to be taken simultaneously once a day.

[0026] Patent IN2003MU00153 relates to a combipack that may comprise: a) a statin and aspirin, b) a statin, aspirin and a β -blocker, c) a statin, aspirin, a β -blocker and an ACE inhibitor, and d) a statin, aspirin, a β -blocker and an angiotensin II antagonist. In all cases each one of the components is packed individually in the corresponding blister.

[0027] Currently the medical community indicates the need for having combinations of acetylsalicylic acid, hypocholesterolaemic agents, preferably HMG-CoA reductase inhibitors, and antihypertensives, preferably ACE inhibitors, comprising optimal doses of the three active ingredients in a single dosage form for the prevention of cardiovascular events in high risk populations (Schieffer B et al., Role of 3-hydroxy-3-methylglutaryl Coenzyme A reductase inhibitors, angiotensin-converting enzyme inhibitors, cyclooxygenase-2 inhibitors, and aspirin in anti-inflammatory and immunomodulatory treatment of cardiovascular diseases. *Am J Cardiol.* 2003 Jun 19; 91(12A):12H-18H. Review; Takeda T et al., Relationship between effects of statins, aspirin and angiotensin II modulators on high-sensitive C-reactive protein levels. *Atherosclerosis.* 2003 Jul; 169(1):155-8; Hippisley-Cox J et al., Effect of combinations of drugs on all cause mortality in patients with ischaemic heart disease: nested case-control analysis. *BMJ.* 2005 May 7; 330(7499): 1059-63; Kulkarni SP et al., Long-term adherence with cardiovascular drug regimens. *Am Heart J.* 2006 Jan; 151(1): 185-91; Gaziano TA et al., Cardiovascular disease prevention with a multidrug regimen in the developing world: a cost-effectiveness analysis. *Lancet.* 2006 Aug 19; 368(9536):679-86. Review; and Choudhry NK et al., Should patients receive secondary prevention medications for free after a myocardial infarction? An economic analysis. *Health Aff (Millwood).* 2007 Jan-Feb; 26(1): 186-94). In particular, high-risk populations are understood as people of more than 55 years of age, patients with a background of angor pectoris, ictus, arteriosclerosis, intermittent claudication, diabetes, coronary disease, peripheral vascular disease, altered platelet function, haemodialysis, hypercholesterolaemia, hypertension, myocardial infarction, congestive heart failure, ischaemia, nephropathy, cardiac arrest or restenosis, smokers, obese people and sedentary people.

[0028] Despite the fact that all state of the art inventions somehow claim combinations of acetylsalicylic acid, HMG-CoA reductase inhibitors and ACE inhibitors, only patent application WO2004/ 080488 describes a specific example of a combination of the three active ingredients without further components. Thus, example 18 describes a combination in the form of tablets containing 100 mg of aspirin, 10 mg of simvastatin and 20 mg of lisinopril, and similarly, example 19 describes another composition also in the form of tablets containing 100 mg of aspirin, 40 mg of simvastatin and 8 mg of perindopril. However, the examples are very briefly described and they lack sufficient description in order to be carried out in practice.

[0029] On the other hand, depending on each patient's background it may be necessary for the medical community to have the availability of a wide range of possible polypills from which to choose according to each patient. This is one of the main obstacles that slows down the implementation of these therapies since it is frequently difficult to find a combination that adapts in its quantitative composition to the requirements of an individual patient. This situation becomes more urgent every day, given the sensitivity of society in general, which demands increasingly more personalised therapies every day.

[0030] However, any current pharmaceutical technology that tries to put the aforementioned inventions into practice finds the obstacle that changes in the dosage of the components is not easily performed, which produces extra costs and delays when introducing quantitative changes in the formulas during the manufacturing procedures.

[0031] Therefore, on the one hand it is necessary to provide society and the medical community with combinations of acetylsalicylic acid, HMG-CoA reductase inhibitors and ACE inhibitors at fixed doses, all in a same dosage form, but such that the fixed doses may in turn be easily customized to the individual characteristics of each patient or subgroup of the population. All this presents problems in the size of the dosage form and the compatibility between the different components that must be solved.

Summary of the invention

[0032] In this sense the present invention offers new compositions in the form of capsules comprising a variable number of acetylsalicylic acid tablets, a variable number of tablets of an HMG-CoA reductase inhibitor and a variable number of tablets of an ACE inhibitor, such that the number of tablets of each active ingredient can be customized to the characteristics of the individual patients or subgroups of the population they are intended for.

[0033] For the present invention simvastatin and pravastatin have been chosen from the HMG-CoA reductase inhibitors since they figure amongst those most widely prescribed in therapy for hyper-cholesterolaemia. For its part, pravastatin used as a sodium salt is extremely advantageous at the formulation level given its solubility in water. Similarly, lisinopril, ramipril and perindopril figure amongst the most widely prescribed ACE inhibitors in hypertension therapy. From the pharmacotechnical point of view lisinopril has the advantage over other compounds of the same family that it is obtained with less impurities and that used as a dihydrate it turns out to be one of the most soluble in water. Similarly, perindopril used as an erbumine salt is also freely soluble in water, which results in greater ease of absorption.

Brief description of the drawings

[0034] Figure 1 shows a capsule representing the object of the present invention comprising 1 coated tablet comprising 100 mg of acetylsalicylic acid (A), 2 coated tablets each comprising 20 mg of simvastatin (S) and 1 coated tablet comprising 2.5 mg of ramipril (R).

Detailed description of the invention

[0035] The present invention relates to the manufacture of therapeutic combinations for the prevention of cardiovascular diseases comprising acetylsalicylic acid, HMG-CoA reductase inhibitors and ACE inhibitors at fixed doses that are adaptable to the doses required by individual patients or certain population subgroups.

[0036] Moreover, the compositions of the present invention have the advantage of preserving the active ingredients from degradation by light, as do capsules. This advantage is increased by the fact that the active ingredients are in turn present as coated tablets, a fact that prevents incompatibility between the different components. Based on the total weight of the tablet, the proportion of the coating is usually in the range of 1-12 % w/w, preferably 2-6 % w/w. The coating comprises a film-forming agent, such as a film-forming polymer, e.g. partially hydrolysed polyvinyl alcohol, hydroxypropylmethyl cellulose, or the like. The coating may comprise further conventional excipients.

[0037] In the course of the investigation it has been discovered that acetylsalicylic acid degrades to salicylic acid due to moisture. Subsequent acetylsalicylic acid sublimation occurs on the surface of ACE inhibitor tablets thus inducing its chemical degradation. A partially hydrolysed polyvinyl alcohol coating film (Opadry AMB™, Colorcon) has been found useful for protecting both acetylsalicylic acid and the ACE inhibitor tablets because of its moisture barrier properties. HMG-CoA reductase inhibitor tablets in the present invention may be coated with a coloured film, such as a hydroxypropylmethyl cellulose comprising film (Opadry Orange™, Colorcon) to hide darkened appearance. Opadry AMB coatings also may comprise one or more than one pigment.

[0038] As a result, the compositions of the present invention are safe, stable and effective and they are small in size, which allows them to be easily swallowed. According to one embodiment, they release the oral doses in a essentially immediate release format.

[0039] Finally, the evidence of toxicological safety together with the absence of pharmacodynamic and pharmacokinetic interactions, the benefits of the combined therapy of acetylsalicylic acid with HMG-CoA reductase inhibitors such as simvastatin and pravastatin, and with ACE inhibitors such as lisinopril, perindopril and ramipril, and the fact that the possible side effects are predictable, not serious and can be clinically controlled without great risk for the patients, allows the conclusion that the combinations of the present invention produce innovative, safe and effective treatments.

[0040] Simvastatin chemically corresponds to (4R,6R)-6-[2-[(1S,2S,6R,8S,8aR)-1,2,6,7,8,8a-hexahydro-8-hydroxy-2,6-dimethyl-1-naphthyl]ethyl]tetrahydro-4-hydroxy-2H-pyran-2-one 8-ester with 2,2-dimethylbutyric acid (WHO). Pravastatin chemically corresponds to (3R,5R)-7-[(1S,2S,6S,8S,8aR)-1,2,6,7,8,8a-hexahydro-6-hydroxy-2-methyl-8-[(S)-2-methylbutyryloxy]-1-naphthyl]-3,5-dihydroxy heptanoic acid (WHO). Lisinopril chemically corresponds to 1-[N²-[(S)-1-carboxy-3-phenylpropyl]-L-lysyl]-L-proline (WHO). Ramipril chemically corresponds to the 1-ethyl ester of (2S,3aS,6aS)-1-[(S)-N-[(S)-1-carboxy-3-phenylpropyl]alanyl]octa-hydrocyclopenta[b]pyrrol-2-carboxylic acid (OMS). Perindopril chemically corresponds to the 1-ethyl ester of (2S,3aS,7aS)-1-[(S)-N-[(S)-1-carboxybutyl]alanyl]hexahydro-2-indolinecarboxylic acid (OMS).

[0041] The present invention relates to a capsule customized to the individual characteristics of each patient or subgroup of the population for the prevention of cardiovascular diseases characterised in that it comprises:

(i)

a) w coated tablet(s) comprising 40.5 mg of acetylsalicylic acid and x coated tablet(s) comprising 81 mg of acetylsalicylic acid, wherein w is an integer chosen from 0 and 1, and x is an integer chosen from 0, 1 and 2, such that the total amount of acetylsalicylic acid is from 40.5 to 162 mg and w+x is 1 or 2; or

b) y coated tablet(s) comprising 50 mg of acetylsalicylic acid and z coated tablet(s) comprising 100 mg of acetylsalicylic acid, wherein y is an integer chosen from 0 and 1, and z is an integer chosen from 0, 1 and 2, such that the total amount of acetylsalicylic acid is from 50 to 200 mg and y+z is 1 or 2;

(ii)

a) s coated tablet(s) comprising 20 mg of simvastatin and t coated tablet(s) comprising 40 mg of simvastatin, wherein s is an integer chosen from 0, 1 and 2, and t is an integer chosen from 0, 1 and 2, such that the total amount of simvastatin is from 20 to 80 mg and s+t is 1 or 2; or

b) u coated tablet(s) comprising 20 mg of pravastatin or a pharmaceutically acceptable salt thereof and v coated

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tablet(s) comprising 40 mg of pravastatin or a pharmaceutically acceptable salt thereof, wherein u is an integer chosen from 0, 1 and 2, and v is an integer chosen from 0, 1 and 2, such that the total amount of pravastatin or a pharmaceutically acceptable salt thereof is from 20 to 80 mg and $u+v$ is 1 or 2; and

5 (iii)

a) p coated tablet(s) comprising 5 mg of lisinopril or a hydrated form, q coated tablet(s) comprising 10 mg of lisinopril or a hydrated form and r coated tablet(s) comprising 20 mg of lisinopril or a hydrated form, wherein p is an integer chosen from 0 and 1, q is an integer chosen from 0 and 1, and r is an integer chosen from 0, 1 and 2, such that the total amount of lisinopril or hydrated form is from 5 to 40 mg and $p+q+r$ is 1, 2 or 3; or

10 b) k coated tablet(s) comprising 2.5 mg of ramipril, m coated tablet(s) comprising 5 mg of ramipril and n coated tablet(s) comprising 10 mg of ramipril, wherein k is an integer chosen from 0 and 1, m is an integer chosen from 0 and 1, and n is an integer chosen from 0, 1 and 2, such that the total amount of ramipril is from 2.5 to 20 mg and $k+m+n$ is 1, 2 or 3; or

15 c) h coated tablet(s) comprising 2 mg of perindopril or a pharmaceutically acceptable salt thereof, i coated tablet(s) comprising 4 mg of perindopril or a pharmaceutically acceptable salt thereof, and j coated tablet(s) comprising 8 mg of perindopril or a pharmaceutically acceptable salt thereof, wherein h is an integer chosen from 0 and 1, i is an integer chosen from 0 and 1, and j is an integer chosen from 0, 1 and 2, such that the total amount of perindopril or a pharmaceutically acceptable salt thereof is 2 to 16 mg and $h+i+j$ is 1, 2 or 3;

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wherein:

the acetylsalicylic acid tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film;

the simvastatin tablets are coated with a hydroxypropylmethyl cellulose comprising film;

25 the pravastatin or pharmaceutically acceptable salt tablets are coated with a hydroxypropylmethyl cellulose comprising film;

the lisinopril or hydrated form tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film;

the ramipril tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film; and

30 the perindopril or pharmaceutically acceptable salt tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film.

[0042] Preferred amongst the pharmaceutically acceptable salts of pravastatin are those from alkaline metals or alkaline earth metals. The most preferred salt is the sodium salt. Lisinopril usually occurs as a dihydrate, which is therefore the preferred form used in the present invention. Amongst the pharmaceutically acceptable salts of perindopril are alkaline salts and alkylamine salts, the most preferred being the salt with *t*-butylamine, also called erbumine salt.

35 [0043] According to a particular embodiment, all tablets have unmodified release format. As used herein the term "unmodified release" format is understood to be defined as pertaining to the dissolution and bioavailability profile of an active ingredient wherein no additional modifications, be it chemical or physical, have been made to the ingredient with the specific intent to alter the dissolution or bioavailability profile from that of ingredient in a usual form. It is also understood that unmodified release is, essentially, immediate release of active ingredients. This is further understood to be traditional or conventional release format where no slow, delayed or extended release effect is incorporated. Immediate release means that the tablets rapidly dissolve in vitro and in the stomach or upper gastrointestinal tract. Preferably, immediate release means that at least 80% of the active ingredient is released within 60 minutes, preferably within 30 minutes of administration. The test method is a dissolution test given in examples 6 which is used for simvastatin or pravastatin and in example 7 which is used for the ACE inhibitor.

45 [0044] In a preferred embodiment of the present invention, the capsules are characterised in that they comprise:

(i)

50 a) one coated tablet comprising 81 mg of acetylsalicylic acid; or

b) one coated tablet comprising 100 mg of acetylsalicylic acid;

(ii)

55 a) two coated tablets each comprising 20 mg of simvastatin; or

b) two coated tablets each comprising 20 mg of pravastatin sodium salt; and

(iii)

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- a) one coated tablet comprising 5, 10 or 20 mg of lisinopril dihydrate; or
- b) one coated tablet comprising 2.5, 5 or 10 mg of ramipril; or
- c) one coated tablet comprising 2, 4 or 8 mg of perindopril erbumine salt.

5 [0045] In a preferred embodiment of the present invention, the capsules are characterised in that they comprise:

- (1) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg lisinopril dihydrate;
- 10 (2) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg lisinopril dihydrate;
- (3) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 20 mg lisinopril dihydrate;
- (4) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2.5 mg ramipril;
- 15 (5) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg ramipril;
- (6) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril;
- 20 (7) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2 mg perindopril erbumine;
- (8) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 4 mg perindopril erbumine;
- (9) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 8 mg perindopril erbumine;
- 25 (10) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg lisinopril dihydrate;
- (11) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg lisinopril dihydrate;
- 30 (12) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 20 mg lisinopril dihydrate;
- (13) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2.5 mg ramipril;
- (14) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg ramipril;
- 35 (15) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg ramipril;
- (16) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2 mg perindopril erbumine;
- 40 (17) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 4 mg perindopril erbumine;
- (18) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 8 mg perindopril erbumine;
- (19) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg lisinopril dihydrate;
- 45 (20) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg lisinopril dihydrate;
- (21) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 20 mg lisinopril dihydrate;
- (22) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2.5 mg ramipril;
- 50 (23) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg ramipril;
- (24) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril;
- 55 (25) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2 mg perindopril erbumine;
- (26) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 4 mg perindopril erbumine;

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- (27) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 8 mg perindopril erbumine;
- (28) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg lisinopril dihydrate;
- (29) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg lisinopril dihydrate;
- (30) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 20 mg lisinopril dihydrate;
- (31) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2.5 mg ramipril;
- (32) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg ramipril;
- (33) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg ramipril;
- (34) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2 mg perindopril erbumine;
- (35) one coated tablet comprising, 100 mg acetylsalicylic acid two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 4 mg perindopril erbumine; and
- (36) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 8 mg perindopril erbumine.

[0046] In the subsequent preferred embodiments of the present invention, the capsules are characterised in that they are made of hard gelatine.

[0047] In other subsequent preferred embodiments of the present invention, the capsules are characterised in that they are made of cellulose.

[0048] According to a particular embodiment, the capsules or tablets do not contain a further active compound, i.e. the capsules consist of components i), ii) and iii).

[0049] In a preferred embodiment of the present invention, the capsules are used for the prevention of cardiovascular diseases in high-risk populations, preferably in human subjects of more than 55 years of age, patients with a background of angor pectoris, ictus, arteriosclerosis, intermittent claudication, diabetes, coronary disease, peripheral vascular disease, altered platelet function, haemodialysis, hypercholesterolaemia, hypertension, myocardial infarction, congestive heart failure, ischaemia, nephropathy, cardiac arrest or restenosis, smokers, obese subjects and sedentary subjects.

[0050] The capsules of the present invention allow easy dose scaling by arithmetic progression at the physician's discretion by the minimum number of tablets per capsule and based on the characteristics of each patient or population subgroup to be treated. Acetylsalicylic acid doses have been determined based on the American standard of 81 mg (St. Joseph 81 mg Aspirin®) and the international standard of 100 mg. The scaling of possible doses is shown in Table 1.

Table 1. Dose scaling

Acetylsalicylic acid (40.5-162 mg, 50-200 mg; 40.5, 50 mg scaling)				
w, 40.5 mg	1	0	1	0
x, 81 mg	0	1	1	2
<i>Total</i>	<i>40.5 mg</i>	<i>81 mg</i>	<i>121.5 mg</i>	<i>162 mg</i>
y, 50 mg	1	0	1	0
z, 100 mg	0	1	1	2
<i>Total</i>	<i>50 mg</i>	<i>100 mg</i>	<i>150 mg</i>	<i>200 mg</i>
HMG-CoA reductase inhibitors (20-80 mg, 20 mg scaling)				
Simvastatin				
s, 20 mg	1	0	1	0
t, 40 mg	0	1	1	2
<i>Total</i>	<i>20 mg</i>	<i>40 mg</i>	<i>60 mg</i>	<i>80 mg</i>

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(continued)

Pravastatin Sodium salt									
u, 20 mg	1	0	1						0
v, 40 mg	0	1	1						2
<i>Total</i>	<i>20 mg</i>	<i>40 mg</i>	<i>60 mg</i>						<i>80 mg</i>
ACE inhibitors									
Lisinopril dihydrate (5-40 mg, 5 mg scaling)									
p, 5 mg	1	0	1	0	1	0	1	0	
q, 10 mg	0	1	1	0	0	1	1	0	
r, 20 mg	0	0	0	1	1	1	1	2	
<i>Totals</i>	<i>5 mg</i>	<i>10 mg</i>	<i>15 mg</i>	<i>20 mg</i>	<i>25 mg</i>	<i>30 mg</i>	<i>35 mg</i>	<i>40 mg</i>	
Ramipril (2.5-20 mg, 2.5 mg scaling)									
k, 2.5 mg	1	0	1	0	1	0	1	0	
m, 5 mg	0	1	1	0	0	1	1	0	
n, 10 mg	0	0	0	1	1	1	1	2	
<i>Total</i>	<i>2.5 mg</i>	<i>5 mg</i>	<i>7.5 mg</i>	<i>10 mg</i>	<i>12.5 mg</i>	<i>15 mg</i>	<i>17.5 mg</i>	<i>20 mg</i>	
Perindopril erbumine salt (2-16 mg, 2 mg scaling)									
h, 2 mg	1	0	1	0	1	0	1	0	
i, 4 mg	0	1	1	0	0	1	1	0	
j, 8 mg	0	0	0	1	1	1	1	2	
<i>Total</i>	<i>2 mg</i>	<i>4 mg</i>	<i>6 mg</i>	<i>8 mg</i>	<i>10 mg</i>	<i>12 mg</i>	<i>14 mg</i>	<i>16 mg</i>	

[0051] The capsules of the present invention may be of various materials, the most common of these being conventional hard gelatine capsules and cellulose capsules. Amongst the cellulose capsules we include, without this implying a limitation, those formed by various alkylcelluloses, such as methylcellulose, carboxymethyl cellulose, hydroxypropyl cellulose and the preferred hydroxypropylmethyl cellulose (HPMC).

[0052] Thus, in a practical embodiment the present invention relates to both hard gelatine capsules (0.12-1.66% of iron oxides, expressed as black iron oxide or red iron oxide, or mixtures thereof; 0.37-2.33% of titanium dioxide; and 100% gelatine q.s.) and cellulose capsules (99% HPMC; 0.2% of carrageenan; 0.15% of potassium chloride; and 0.65% pigments). The compositions of both the hard gelatine capsules and the cellulose capsules are not intended to imply limitations of the scope of the invention.

[0053] The tablets usually comprise pharmaceutically acceptable excipients such as diluents, binding agents, disintegrants, lubricants, glidants, antioxidants, pH regulators and film-forming polymers and the like.

[0054] Amongst the diluents we can name, without this necessarily implying a limiting nature, calcium phosphate, dicalcium phosphate, tricalcium phosphate, calcium sulphate, microcrystalline cellulose, kaolin, bentonite, starch, magnesium carbonate, several saccharides such as mannitol, lactose, either anhydrous, spray-dried or wet, sorbitol, sucrose, inositol, compressible sugar, trehalose, xylitol, and the like, and mixtures thereof.

[0055] Amongst the binders we can name, without this necessarily implying a limiting nature, acacia, microcrystalline cellulose, cellulosic solutions such as HPMC, 10-20% gelatine solutions, 20-50% glucose solutions, polyvinylpyrrolidone, 10-20% starch paste, sorbitol, tragacanth, polyethylene glycol, maltodextrin, polymethacrylates and the like, and mixtures thereof.

[0056] Amongst the disintegrants we can mention, without this necessarily implying a limiting nature, corn and potato starch, methylcellulose, cellulose in general, calcium carboxymethylcellulose, mineral clay powder such as bentonite/veegum, wetting agents such as sodium lauryl sulphate, super-disintegrants, so called due to the low concentration they are used at (typically 2-4%), such as croscarmellose, crospovidone, sodium starch glycolate and the like, and mixtures thereof.

[0057] Amongst the lubricants we can mention, without this necessarily implying a limiting nature, polyethylene glycol, poloxamer, magnesium stearate, calcium stearate, stearic acid, hydrogenated vegetable oils, talc, glyceryl behenate and the like, and mixtures thereof.

[0058] Amongst the glidants we can mention, without this necessarily implying a limiting nature, colloidal silica (1%),

talc, sodium stearyl fumarate, corn starch and the like, and mixtures thereof.

[0059] Amongst the antioxidants we can mention, without this necessarily implying a limiting nature, butylated hydroxyanisole, butylated hydroxytoluene, ascorbic acid, sodium ascorbate, propyl gallate, sodium or potassium metabisulphite, fumaric acid and the like, and mixtures thereof.

5 **[0060]** Amongst the pH regulators we can mention, without this necessarily implying a limiting nature, sodium bicarbonate, magnesium oxide, calcium phosphate, citric acid, potassium citrate and the like, and mixtures thereof.

[0061] Amongst the film-forming polymers we can mention, without this necessarily implying a limiting nature, polyvinyl acetate phthalate, certain cellulose derivatives such as cellulose acetate, HPMC, ethylcellulose, methylcellulose acetate succinate, polymethacrylates, methacrylic acid copolymers, methylcellulose acetate succinate, polyvinyl alcohol and the like, and mixtures thereof.

Embodiments of the invention

[0062] The present invention is additionally illustrated by means of the following examples.

15 **[0063]** Example 1: Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 2.5, 5 or 10 mg ramipril.

a) Manufacture of the acetylsalicylic acid-coated tablets

20 **[0064]** They were manufactured according to the usual procedures in the industry, according to the following sequential procedure. The acetylsalicylic acid, sodium starch glycolate and microcrystalline cellulose 101 were sieved in the appropriate proportions, the three components were mixed, the previously sieved talc was then added, it was mixed again, compressed and the resulting core was coated with an Opadry AMB white OY-B-28920 aqueous film-forming solution. Coated tablets were thus obtained with 100 mg of acetylsalicylic acid, the composition of which is shown in Table 2. The composition of the Opadry AMB white OY-B-28920 coating agent is shown in Table 3. The ingredients for preparing the Opadry AMB white OY-B-28920 aqueous solution corresponding to 1 coated tablet of 100 mg of acetylsalicylic acid are shown in Table 4.

Table 2. Coated tablets, 100 mg of acetylsalicylic acid

30	Core	Components	Acetylsalicylic acid	100.000 mg
			Microcrystalline cellulose 101	20.000 mg
			Sodium starch glycolate	3.750 mg
			Talc	1.250 mg
			<i>Core total</i>	125.000 mg
35	Coating	Opadry AMB white OY-B-28920		6.250 mg
40			<i>Total coated tablet</i>	131.250 mg

Table 3. Opadry AMB white OY-B-28920

45	Partially hydrolysed polyvinyl alcohol	45.50%
	Titanium dioxide	32.00%
50	Talc	20.00%
	Soy lecithin	2.00%
	Xanthan gum	0.50%
55	<i>Total</i>	700.00%

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Table 4. Ingredients for preparing the aqueous solution of Opadry AMB white OY-B-28920 corresponding to 1 coated tablet of 100 mg of acetyl-salicylic acid

Opadry AMB white OY-B-28920	6.250 mg
Purified water	56.250 mg

b) Manufacture of the coated tablets comprising 20 mg of simvastatin

[0065] They were manufactured according to the usual procedures in the industry, according to the following sequential procedure. The micronized simvastatin, lactose monohydrate, pregelatinized starch 1500, ascorbic acid and citric acid were sieved in the appropriate proportions, said components were mixed, purified water was added, it was dried and sieved, thus obtaining Sieving 1. On the other hand, butylated hydroxyanisole (BHA) was prepared as granules at 0.4%. This was achieved from microcrystalline cellulose 102, which was sieved, mixed with an ethanol solution of BHA, which was then dried and sieved, thus obtaining BHA as granules at 0.4%. In turn, a mixture was prepared consisting of microcrystalline cellulose 102, the 0.4% BHA granules, colloidal anhydrous silica, talc and magnesium stearate, which was then sieved to obtain Sieving 2. Sieving 1 and Sieving 2 were mixed and compressed and the resulting core was coated with an Opadry orange 06023821 aqueous film-forming solution. Coated tablets with 20 mg of simvastatin were thus obtained the composition of which is shown in Table 5. The composition of the Opadry orange 06023821 coating agent is shown in Table 6. The ingredients for preparing the 0.4% BHA granules corresponding to 1 coated tablet of 20 mg of simvastatin are shown in Table 7. The ingredients for preparing Sieving 1 corresponding to 1 coated tablet of 20 mg of simvastatin are shown in Table 8. The ingredients for preparing the Opadry orange 06023821 aqueous solution corresponding to 1 coated tablet of 20 mg of simvastatin are shown in Table 9.

Table 5. Coated tablets, 20 mg of simvastatin

Core	Components	Micronized simvastatin	20.000 mg
		Lactose monohydrate	45.000 mg
		Pregelatinised starch 1500	10.000 mg
		Ascorbic acid	5.000 mg
		Citric acid	2.500 mg
		Microcrystalline cellulose 102	11.960 mg
		Butylated hydroxyanisole	0.040 mg
		Colloidal anhydrous silica	0.500 mg
		Talc	4.000 mg
		Magnesium stearate	1.000 mg
	<i>Core total</i>	<i>100.000 mg</i>	
Coating	Opadry orange 06023821	3.000 mg	
<i>Total coated tablet</i>		<i>103.000 mg</i>	

Table 6. Opadry orange 06023821

Hypromellose 606	37.80%
Hypromellose E15LVP	12.59%
Red iron oxide	0.19%
Yellow iron oxide	0.77%

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(continued)

Triethyl citrate	8.14%
Titanium dioxide	4.72%
Talc	33.27%
Povidone K30	2.52%
<i>Total</i>	<i>100.00%</i>

Table 7. Ingredients for preparing the 0.4% BHA granules corresponding to 1 coated tablet comprising 20 mg of simvastatin

Microcrystalline cellulose 102	10.000 mg
Butylated hydroxyanisole	0.040 mg
96° Ethanol	3.750 mg

Table 8. Ingredients for preparing Sieving 1 corresponding to 1 coated tablet comprising 20 mg of simvastatin

Micronized simvastatin	20.000 mg
Lactose monohydrate	45.000 mg
Pregelatinised starch 1500	10.000 mg
Ascorbic acid	5.000 mg
Citric acid	2.500 mg
Purified water	17.000 mg

Table 9. Ingredients for preparing the aqueous solution of Opadry orange 06023821 corresponding to 1 coated tablet comprising 20 mg of simvastatin

Opadry orange 06023821	3.000 mg
Purified water	27.000 mg

c) Manufacture of coated tablets comprising 2.5, 5 and 10 mg of ramipril.

[0066] They were manufactured according to the usual procedures in the industry, according to the following sequential procedure. The ramipril, sodium bicarbonate and pregelatinized starch 1500 were dry sieved and mixed in the appropriate proportions. The previously sieved microcrystalline cellulose 101 was added in two steps (premix and second mixture), being dry-mixed after each addition. HPMC was added into purified water, followed by mixing, drying and sieving, thus obtaining Sieving 1. Previously sieved microcrystalline cellulose 101 was added, mixed, previously sieved sodium stearyl fumarate was added, it was mixed, compressed, and the resulting core was coated with an Opadry AMB yellow aqueous

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film-forming solution. Coated tablets of 2.5, 5 and 10 mg of ramipril were thus obtained the compositions of which are shown respectively in Tables 10, 11 and 12. The breaking strength of the tablets obtained was 9-11 kp their disintegration time was 0.5-2 min. The composition of the Opadry AMB yellow coating agent is shown in Tables 13, 14 and 15, corresponding respectively to the coated tablets of 2.5, 5 and 10 mg of ramipril. The ingredients for preparing Sieving 1 corresponding to 1 coated tablet of 2.5, 5 and 10 mg of ramipril are shown respectively in Tables 16, 17 and 18. The ingredients for preparing the Opadry AMB yellow aqueous solution corresponding to 1 coated tablet of 2.5, 5 or 10 mg of ramipril are shown in Table 19.

Table 10. Coated tablet, 2.5 mg of ramipril

Core	Components	Ramipril	2.500 mg
		HPMC	0.500 mg
		Sodium bicarbonate	1.000 mg
		Pregelatinised starch 1500	10.000 mg
		Microcrystalline cellulose 101	86.200 mg
		Sodium stearyl fumarate	0.800 mg
<i>Core total</i>			<i>101.000 mg</i>
Coating	Opadry AMB yellow 80W32039		4.000 mg
<i>Total coated tablet</i>			<i>105.000 mg</i>

Table 11. Coated tablet, 5 mg of ramipril

Core	Components	Ramipril	5.000 mg
		HPMC	0.500 mg
		Sodium bicarbonate	2.000 mg
		Pregelatinised starch 1500	10.000 mg
		Microcrystalline cellulose 101	82.700 mg
		Sodium stearyl fumarate	0.800 mg
<i>Core total</i>			<i>101.000 mg</i>
Coating	Opadry AMB yellow 80W32656		4.000 mg
<i>Total coated tablet</i>			<i>105.000 mg</i>

Table 12. Coated tablet, 10 mg of ramipril

Core	Components	Ramipril	10.000 mg
		HPMC	0.500 mg
		Sodium bicarbonate	4.000 mg
		Pregelatinised starch 1500	10.000 mg
		Microcrystalline cellulose 101	75.700 mg
		Sodium stearyl fumarate	0.800 mg
<i>Core total</i>			<i>101.000 mg</i>
Coating	Opadry AMB yellow 80W32880		4.000 mg
<i>Total coated tablet</i>			<i>105.000 mg</i>

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*Table 13. Opadry AMB yellow
80W32039 for 2 coated tablets
comprising 5 mg of ramipril*

5

Partially hydrolysed polyvinyl alcohol	45.52%
Titanium dioxide	30.70%
Talc	20.00%
Soy lecithin	2.00%
Yellow iron oxide	1.30%
Xanthan gum	0.48%
<i>Total</i>	<i>100.00%</i>

10

15

*Table 14. Opadry AMB yellow
80W32656 for coated tablets
comprising 5 mg of ramipril*

20

Partially hydrolysed polyvinyl alcohol	45.52%
Titanium dioxide	29.61%
Talc	20.00%
Soy lecithin	2.39%
Yellow iron oxide	2.00%
Xanthan gum	0.48%
<i>Total</i>	<i>100.00%</i>

25

30

*Table 15. Opadry AMB yellow
80W32880 for coated tablets
comprising 10 mg of ramipril*

35

Partially hydrolysed polyvinyl alcohol	45.52%
Titanium dioxide	27.20%
Talc	20.00%
Soy lecithin	4.80%
Yellow iron oxide	2.00%
Xanthan gum	0.48%
<i>Total</i>	<i>700.00%</i>

40

45

50

55

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Table 16. Ingredients for preparing Sieving 1 corresponding to 1 coated tablet comprising 2.5 mg of ramipril

Ramipril	2.500 mg
HPMC	0.500 mg
Sodium bicarbonate	1.000 mg
Pregelatinised starch 1500	10.000 mg
Microcrystalline cellulose 101 (premix)	32.000 mg
Microcrystalline cellulose 101 (second mixture)	25.000 mg
Purified water	45.000 mg

Table 17. Ingredients for preparing Sieving 1 corresponding to 1 coated tablet comprising 5 mg of ramipril

Ramipril	5.000 mg
HPMC	0.500 mg
Sodium bicarbonate	2.000 mg
Pregelatinised starch 1500	10.000 mg
Microcrystalline cellulose 101 (premix)	28.500 mg
Microcrystalline cellulose 101 (second mixture)	25.000 mg
Purified water	40.000 mg

Table 18. Ingredients for preparing Sieving 1 corresponding to 1 coated tablet comprising 10 mg of ramipril

Ramipril	10.000 mg
HPMC	0.500 mg
Sodium bicarbonate	4.000 mg
Pregelatinised starch 1500	10.000 mg
Microcrystalline cellulose 101 (premix)	21.500 mg
Microcrystalline cellulose 101 (second mixture)	25.000 mg
Purified water	35.000 mg

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Table 19. Ingredients for preparing the Opadry AMB yellow aqueous solution corresponding to 1 coated tablet comprising 2.5, 5 or 10 mg of ramipril

Opadry AMB yellow	4.000 mg
Purified water	36.000 mg

d) Encapsulating procedure

[0067] The coated tablets of ramipril, simvastatin and acetylsalicylic acid were introduced in a proportion of 1:2:1 respectively, in #0 size hard gelatine capsules using an ordinary encapsulating machine for this purpose. Three different filling hoppers were enabled to this end, one for each type of tablet. The capsules were filled with the aid of a punch that pushed the tablets into the capsule, the machine being provided with a quality assurance system prepared to reject capsules with an incorrect number of tablets.

e) Stability study

[0068] Each of the batches of capsules obtained in a-d) packaged in an aluminium/aluminium (Alu/Alu) blister and in a PVC/PVDC (polyvinyl chloride/polyvinyl dichloride)-aluminium blister were subjected to variables conditions of temperature and relative humidity (rh) for 3 months, the following results being obtained on the impurities or degradation products found in the various conditions.

1. Stability of the acetylsalicylic acid tablets

Start		
Salicylic acid	Other impurities	Total impurities
0.60%	Undetected	0.60%

3 months				
Conditions	Batch	Salicylic acid	Other impurities	Total impurities
25°C 60% rh	Alu/Alu	0.35%	Undetected	0.4%
	PVC/PVDC	0.34%	Undetected	0.4%
30°C 65% rh	Alu/Alu	1.43%	Undetected	1.4%
	PVC/PVDC	0.56%	Undetected	0.6%
40°C 75% rh	Alu/Alu	0.76%	Undetected	0.8%
	PVC/PVDC	1.76%	Undetected	1.8%

2. Stability of the simvastatin tablets

Start				
Lovastatin	Impurity A	Impurity C	Other impurities	Total impurities
Undetected	0.11%	Undetected	0.06%	0.17%
<i>Impurity A = simvastatin hydroxy acid</i>				
<i>Impurity C = anhydrosimvastatin</i>				

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3 months						
Conditions	Batch	L(1)	Impurity A	Impurity C	Other impurities	Total impurities
25°C 60% rh	Alu/Alu	0.02%	0.28%	n.d. (2)	0.05%	0.43%
	PVC/PVDC	0.02%	0.31%	n.d. (2)	0.05%	0.47%
30°C 65% rh	Alu/Alu	0.02%	0.22%	0.02%	0.29%	0.63%
	PVC/PVDC	0.02%	0.26%	0.02%	0.31%	0.69%
40°C 75% rh	Alu/Alu	0.02%	0.21%	0.06%	1.13%	1.50%
	PVC/PVDC	0.02%	0.36%	0.12%	1.69%	2.31%
(1) <i>lovastatin</i> (2) <i>undetected</i>						

3. Stability of the ramipril tablets

Start		
Impurity D	Unknown impurities	Total impurities
0.04%	0.05%	0.21%
<i>Impurity D = ramipril diketopiperazine</i>		

3 months						
Conditions	Batch	BHA	AA (1)	Impurity D	Impurity E	Total impurities
25°C 60% rh	Alu/Alu	n.d. (2)	n.d. (2)	0.1%	0.1%	< 0.1%
	PVC/PVDC	n.d. (2)	n.d. (2)	0.1%	0.1%	n.d. (3)
30°C 65% rh	Alu/Alu	n.d. (2)	n.d. (2)	0.1%	0.1%	0.1%
	PVC/PVDC	n.d. (2)	n.d. (2)	0.1%	0.2%	< 0.1%
40°C 75% rh	Alu/Alu	0.2%	0.1%	0.1%	0.2%	n.d. (3)
	PVC/PVDC	1.1%	n.d. (2)	0.4%	0.7%	0.2%
(1) <i>acetylsalicylic acid</i> (2) <i>undetected</i> (3) <i>undetected</i> <i>Impurity E = ramipril diacid</i>						

[0069] **Example 2:** Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril.

[0070] Similarly to example 1, the title capsules were prepared in which the only difference was the composition of the ramipril tablet, which is shown in Table 20. Tablet breaking strength was 9-11 kp and disintegration time 1-2 min.

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Table 20. Coated tablet of 10 mg ramipril

Core	Components	Ramipril	10.000 mg	
		HPMC	1.000 mg	
		Pregelatinised starch 1500	8.000 mg	
		Microcrystalline cellulose 101	78.200 mg	
		Sodium starch glycolate	2.000 mg	
		Sodium stearyl fumarate	800 mg	
		<i>Core total</i>	<i>100.000 mg</i>	
Coating	Opadry AMB yellow 80W32880		4.000 mg	
			<i>Total coated tablet</i>	<i>104.000 mg</i>

[0071] **Example 3:** Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 20 mg lisinopril dihydrate.

[0072] Similarly to example 1, the title capsules were prepared in which the only difference was the composition of the lisinopril dihydrate tablet, which is shown in Table 21. Tablet breaking strength was 5.5-7.5 kp and disintegration time < 1 min.

Table 21. Coated tablet, 20 mg of lisinopril dihydrate

Core	Components	Lisinopril dihydrate	20.000 mg	
		Corn starch	5.000 mg	
		Pregelatinised starch 1500	5.000 mg	
		Mannitol	25.000 mg	
		Calcium phosphate dihydrate	44.500 mg	
		Magnesium stearate	500 mg	
		<i>Core total</i>	<i>100.000 mg</i>	
Coating	Opadry AMB yellow 80W32039		4.000 mg	
			<i>Total coated tablet</i>	<i>104.000 mg</i>

[0073] **Example 4:** Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril.

[0074] Similarly to example 1, the title capsules were prepared in which the only difference was the composition of the ramipril tablet, which is shown in Table 22. Tablet breaking strength was 9-11 kp and disintegration time 0.5-2 min.

Table 22. Coated tablet, 10 mg of ramipril

Core	Components	Ramipril	10.000 mg	
		Pregelatinised starch 1500	10.000 mg	
		Microcrystalline cellulose 101	79.200 mg	
		Sodium stearyl fumarate	800 mg	
		<i>Core total</i>	<i>100.000 mg</i>	
Coating	Opadry AMB yellow 80W32880		4.000 mg	
			<i>Total coated tablet</i>	<i>104.000 mg</i>

[0075] **Example 5:** Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril.

[0076] Similarly to example 1, the title capsules were prepared in which the only difference was the composition of

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the simvastatin tablet, which is shown in Table 23.

Table 23. Coated tablets, 20 mg of simvastatin

Core	Components	Micronized simvastatin	20.000 mg
		Lactose monohydrate	51.960 mg
		Pregelatinized starch 1500	10.000 mg
		Ascorbic acid	5.000 mg
		Citric acid	2.500 mg
		Microcrystalline cellulose 101	5.000 mg
		Butylated hydroxyanisole	0.040 mg
		Colloidal anhydrous silica	0.500 mg
		Talc	4.000 mg
		Magnesium stearate	1.000 mg
<i>Core total</i>		<i>100.000 mg</i>	
Coating	Opadry orange 06023821	3.000 mg	
<i>Total coated tablet</i>		<i>103.000 mg</i>	

Example 6: Dissolution test for the simvastatin tablets

[0077] The dissolution test was performed on the simvastatin tablets of example 4. To this end 1 simvastatin tablet was introduced per capsule using size #0 hard gelatine and cellulose capsules, in a buffered aqueous medium at pH 7 and containing 0.5% sodium dodecyl sulphate in 0.01 N sodium phosphate, at 37°C. The results obtained are those of Table 24.

Table 24. Dissolution test for the simvastatin tablets

Time (min)	Capsules	
	Hard gelatine	Cellulose
5	18.78±47.39%	0.00%
15	69.69±13.98%	57.17±15.02%
30	85.05±7.36%	90.31±3.95%

Example 7: Dissolution test for the ramipril tablets

[0078] 1 ramipril tablet from example 4 was introduced per capsule using size #0 hard gelatine and cellulose capsules in an aqueous solution of 0.1 N HCl at 37°C. The results obtained are those of Table 25.

Table 25. Dissolution test for the ramipril tablets

Time (min)	Capsules	
	Hard gelatine	Cellulose
5	86.29±2.41%	6.93±83.65%
15	90.17±1.93%	84.68±2.65%
30	91.22±1.80%	89.49±2.37%

Example 8: Dissolution test for the acetylsalicylic acid tablets

[0079] 1 acetylsalicylic acid tablet from example 4 was introduced in a buffered aqueous medium at pH 4.5, at 37°C.

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The results obtained are those of Table 26.

Table 26. Dissolution test for the acetylsalicylic tablets

0 min	0%
5 min	40%
15 min	90%
30 min	96%

[0080] Example 9: Hard gelatine capsules containing one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets comprising 20 mg simvastatin and one coated tablet comprising 2.5, 5 or 10 mg ramipril.

[0081] Similarly to example 1, the title capsules were prepared in which the only difference was the composition of the ramipril tablets, which are shown in Tables 27, 28 and 29, corresponding respectively to the coated tablets of 2.5, 5 and 10 mg of ramipril.

Table 27. Coated tablet, 2.5 mg of ramipril

Core	Components	Ramipril	2.500 mg
		HPMC	0.441 mg
		Pregelatinised starch 1500	17.559 mg
		Microcrystalline cellulose 200	80.000 mg
		Sodium stearyl fumarate	0.500 mg
<i>Core total</i>		<i>101.000 mg</i>	
Coating	Opadry AMB yellow 80W32039		4.000 mg
<i>Total coated tablet</i>			<i>1105.000 mg</i>

Table 28. Coated tablet, 5 mg of ramipril

Core	Components	Ramipril	5.000 mg
		HPMC	0.882 mg
		Pregelatinised starch 1500	19.618 mg
		Microcrystalline cellulose 200	75.000 mg
		Sodium stearyl fumarate	0.500 mg
<i>Core total</i>		<i>101.000 mg</i>	
Coating	Opadry AMB yellow 80W32656		4.000 mg
<i>Total coated tablet</i>			<i>105.000 mg</i>

Table 29. Coated tablet, 10 mg of ramipril

Core	Components	Ramipril	10.000 mg
		HPMC	1.764 mg
		Pregelatinised starch 1500	18.736 mg
		Microcrystalline cellulose 200	70.000 mg
		Sodium stearyl fumarate	0.500 mg
<i>Core total</i>		<i>101.000 mg</i>	

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(continued)

Coating	Opadry AMB yellow 80W32880	4.000 mg
<i>Total coated tablet</i>		<i>105.000 mg</i>

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Claims

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1. A capsule which comprises:

(i)

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a) w coated tablet(s) comprising 40.5 mg of acetylsalicylic acid and x coated tablet(s) comprising 81 mg of acetylsalicylic acid, wherein w is an integer chosen from 0 and 1, and x is an integer chosen from 0, 1 and 2, such that the total amount of acetylsalicylic acid is from 40.5 to 162 mg and $w+x$ is 1 or 2; or
b) y coated tablet(s) comprising 50 mg of acetylsalicylic acid and z coated tablet(s) comprising 100 mg of acetylsalicylic acid, wherein y is an integer chosen from 0 and 1, and z is an integer chosen from 0, 1 and 2, such that the total amount of acetylsalicylic acid is from 50 to 200 mg and $y+z$ is 1 or 2;

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(ii)

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a) s coated tablet(s) comprising 20 mg of simvastatin and t coated tablet(s) comprising 40 mg of simvastatin, wherein s is an integer chosen from 0, 1 and 2, and t is an integer chosen from 0, 1 and 2, such that the total amount of simvastatin is from 20 to 80 mg and $s+t$ is 1 or 2; or
b) u coated tablet(s) comprising 20 mg of pravastatin or a pharmaceutically acceptable salt thereof and v coated tablet(s) comprising 40 mg of pravastatin or a pharmaceutically acceptable salt thereof, wherein u is an integer chosen from 0, 1 and 2, and v is an integer chosen from 0, 1 and 2, such that the total amount of pravastatin or a pharmaceutically acceptable salt thereof is from 20 to 80 mg and $u+v$ is 1 or 2; and

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(iii)

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a) p coated tablet(s) comprising 5 mg of lisinopril or a hydrated form, q coated tablet(s) comprising 10 mg of lisinopril or a hydrated form and r coated tablet(s) comprising 20 mg of lisinopril or a hydrated form, wherein p is an integer chosen from 0 and 1, q is an integer chosen from 0 and 1, and r is an integer chosen from 0, 1 and 2, such that the total amount of lisinopril or hydrated form is from 5 to 40 mg and $p+q+r$ is 1, 2 or 3; or

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b) k coated tablet(s) comprising 2.5 mg of ramipril, m coated tablet(s) comprising 5 mg of ramipril and n coated tablet(s) comprising 10 mg of ramipril, wherein k is an integer chosen from 0 and 1, m is an integer chosen from 0 and 1, and n is an integer chosen from 0, 1 and 2, such that the total amount of ramipril is from 2.5 to 20 mg and $k+m+n$ is 1, 2 or 3; or

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c) h coated tablet(s) comprising 2 mg of perindopril or a pharmaceutically acceptable salt thereof, i coated tablet(s) comprising 4 mg of perindopril or a pharmaceutically acceptable salt thereof, and j coated tablet(s) comprising 8 mg of perindopril or a pharmaceutically acceptable salt thereof, wherein h is an integer chosen from 0 and 1, i is an integer chosen from 0 and 1, and j is an integer chosen from 0, 1 and 2, such that the total amount of perindopril or a pharmaceutically acceptable salt thereof is 2 to 16 mg and $h+i+j$ is 1, 2 or 3;

wherein:

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the acetylsalicylic acid tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film;

the simvastatin tablets are coated with a hydroxypropylmethyl cellulose comprising film;

the pravastatin or pharmaceutically acceptable salt tablets are coated with a hydroxypropylmethyl cellulose comprising film;

the lisinopril or hydrated form tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film;

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the ramipril tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film; and

the perindopril or pharmaceutically acceptable salt tablets are coated with a partially hydrolysed polyvinyl alcohol comprising film.

2. A capsule according to claim 1, which comprises:

(i)

- 5 a) one coated tablet comprising 81 mg of acetylsalicylic acid; or
 b) one coated tablet comprising 100 mg of acetylsalicylic acid;

(ii)

- 10 a) two coated tablets each comprising 20 mg of simvastatin; or
 b) two coated tablets each comprising 20 mg of pravastatin sodium salt; and

(iii)

- 15 a) one coated tablet comprising 5, 10 or 20 mg of lisinopril dihydrate; or
 b) one coated tablet comprising 2.5, 5 or 10 mg of ramipril; or
 c) one coated tablet comprising 2, 4 or 8 mg of perindopril erbumine salt.

3. A capsule according to claim 2, which comprises a combination chosen from:

- 20 (1) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg lisinopril dihydrate;
 (2) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg lisinopril dihydrate;
 25 (3) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 20 mg lisinopril dihydrate;
 (4) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2.5 mg ramipril;
 (5) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg ramipril;
 30 (6) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril;
 (7) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2 mg perindopril erbumine;
 35 (8) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 4 mg perindopril erbumine;
 (9) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 8 mg perindopril erbumine;
 (10) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg lisinopril dihydrate;
 40 (11) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg lisinopril dihydrate;
 (12) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 20 mg lisinopril dihydrate;
 45 (13) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2.5 mg ramipril;
 (14) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg ramipril;
 (15) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg ramipril;
 50 (16) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2 mg perindopril erbumine;
 (17) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 4 mg perindopril erbumine;
 55 (18) one coated tablet comprising 81 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 8 mg perindopril erbumine;
 (19) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg lisinopril dihydrate;

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(20) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg lisinopril dihydrate;

(21) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 20 mg lisinopril dihydrate;

5 (22) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2.5 mg ramipril;

(23) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 5 mg ramipril;

10 (24) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 10 mg ramipril;

(25) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 2 mg perindopril erbumine;

(26) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 4 mg perindopril erbumine;

15 (27) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg simvastatin and one coated tablet comprising 8 mg perindopril erbumine;

(28) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg lisinopril dihydrate;

20 (29) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg lisinopril dihydrate;

(30) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 20 mg lisinopril dihydrate;

(31) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2.5 mg ramipril;

25 (32) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 5 mg ramipril;

(33) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 10 mg ramipril;

30 (34) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 2 mg perindopril erbumine;

(35) one coated tablet comprising, 100 mg acetylsalicylic acid two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 4 mg perindopril erbumine; and

(36) one coated tablet comprising 100 mg acetylsalicylic acid, two coated tablets each comprising 20 mg pravastatin sodium salt and one coated tablet comprising 8 mg perindopril erbumine.

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4. Capsule according to claim 1, 2 or 3, wherein said capsule is made of hard gelatine.

5. Capsule according to claim 1, 2 or 3, wherein said capsule is made of cellulose.

40 6. Capsule according to any one of claims 1 to 5, wherein all tablets have an unmodified release profile.

7. The use of a capsule according to any of claims 1 to 6 for the manufacture of a drug for the prevention of cardiovascular diseases in high-risk populations.

45 8. The use according to claim 7 wherein high-risk populations are people of more than 55 years of age, patients with a background of angor pectoris, ictus, arteriosclerosis, intermittent claudication, diabetes, coronary disease, peripheral vascular disease, altered platelet function, haemodialysis, hypercholesterolaemia, hypertension, myocardial infarction, congestive heart failure, ischaemia, nephropathy, cardiac arrest or restenosis, smokers, obese people and sedentary people.

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Patentansprüche

55 1. Kapsel, umfassend

(i)

a) w beschichtete Tabletten, die 40.5 mg Acetylsalicylsäure umfassen, und x beschichtete Tabletten, die

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81 mg Acetylsalicylsäure umfassen, wobei w für eine unter 0 und 1 ausgewählte ganze Zahl steht und x für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Acetylsalicylsäure 40,5 bis 162 mg ist und $w+x$ 1 oder 2 ist; oder

b) y beschichtete Tabletten, die 50 mg Acetylsalicylsäure umfassen, und z beschichtete Tabletten, die 100 mg Acetylsalicylsäure umfassen, wobei y für eine unter 0 und 1 ausgewählte ganze Zahl steht und z für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Acetylsalicylsäure 50 bis 200 mg ist und $y+z$ 1 oder 2 ist;

(ii)

a) s beschichtete Tabletten, die 20 mg Simvastatin umfassen, und t beschichtete Tabletten, die 40 mg Simvastatin umfassen, wobei s für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht und t für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Simvastatin 20 bis 80 mg ist und $s+t$ 1 oder 2 ist; oder

b) u beschichtete Tabletten, die 20 mg Pravastatin oder ein pharmazeutisch annehmbares Salz davon umfassen, und v beschichtete Tabletten, die 40 mg Pravastatin oder ein pharmazeutisch annehmbares Salz davon umfassen, wobei u für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht und v für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Pravastatin oder einem pharmazeutisch annehmbaren Salz davon 20 bis 80 mg ist und $u+v$ 1 oder 2 ist; und

(iii)

a) p beschichtete Tabletten, die 5 mg Lisinopril oder eine hydratisierte Form umfassen, q beschichtete Tabletten, die 10 mg Lisinopril oder eine hydratisierte Form umfassen, und r beschichtete Tabletten, die 20 mg Lisinopril oder eine hydratisierte Form umfassen, wobei p für eine unter 0 und 1 ausgewählte ganze Zahl steht, q für eine unter 0 und 1 ausgewählte ganze Zahl steht und r für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Lisinopril oder einer hydratisierten Form 5 bis 40 mg ist und $p+q+r$ 1, 2 oder 3 ist; oder

b) k beschichtete Tabletten, die 2,5 mg Ramipril umfassen, m beschichtete Tabletten, die 5 mg Ramipril umfassen, und n beschichtete Tabletten, die 10 mg Ramipril umfassen, wobei k für eine unter 0 und 1 ausgewählte ganze Zahl steht, m für eine unter 0 und 1 ausgewählte ganze Zahl steht, und n für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Ramipril 2,5 bis 20 mg ist und $k+m+n$ 1, 2 oder 3 ist; oder

c) h beschichtete Tabletten, die 2 mg Perindopril oder ein pharmazeutisch annehmbares Salz davon umfassen, i beschichtete Tabletten, die 4 mg Perindopril oder ein pharmazeutisch annehmbares Salz davon umfassen, und j beschichtete Tabletten, die 8 mg Perindopril oder ein pharmazeutisch annehmbares Salz davon umfassen, wobei h für eine unter 0 und 1 ausgewählte ganze Zahl steht, i für eine unter 0 und 1 ausgewählte ganze Zahl steht und j für eine unter 0, 1 und 2 ausgewählte ganze Zahl steht, so dass die Gesamtmenge an Perindopril oder einem pharmazeutisch annehmbaren Salz davon 2 bis 16 mg ist und $h+i+j$ 1, 2 oder 3 ist;

wobei

die Acetylsalicylsäuretablets mit einem Film beschichtet sind, der teilweise hydrolysierten Polyvinylalkohol umfasst; die Simvastatintablets mit einem Film beschichtet sind, der Hydroxypropylmethylcellulose umfasst; die Pravastatintablets oder die Tabletts eines pharmazeutisch annehmbaren Salzes davon mit einem Film beschichtet sind, der Hydroxypropylmethylcellulose umfasst; die Lisinopriltablets oder die Tabletts einer hydratisierten Form mit einem Film beschichtet sind, der teilweise hydrolysierten Polyvinylalkohol umfasst; die Ramipriltablets mit einem Film beschichtet sind, der teilweise hydrolysierten Polyvinylalkohol umfasst; und die Perindopriltablets oder die Tabletts eines pharmazeutisch annehmbaren Salzes davon mit einem Film beschichtet sind, der teilweise hydrolysierten Polyvinylalkohol umfasst.

2. Kapsel nach Anspruch 1, umfassend:

(i)

- a) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst; oder
b) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst;

(ii)

- a) zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen; oder
b) zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen; und

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(iii)

- a) eine beschichtete Tablette, die 5, 10 oder 20 mg Lisinopril-Dihydrat umfasst; oder
b) eine beschichtete Tablette, die 2,5, 5 oder 10 mg Ramipril umfasst; oder
c) eine beschichtete Tablette, die 2, 4 oder 8 mg des Erbuminsalzes von Perindopril umfasst.

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3. Kapsel nach Anspruch 2, die eine Kombination umfasst, die ausgewählt ist unter:

(1) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 5 mg Lisinopril-Dihydrat umfasst;

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(2) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 10 mg Lisinopril-Dihydrat umfasst;

(3) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 20 mg Lisinopril-Dihydrat umfasst;

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(4) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 2,5 mg Ramipril umfasst;

(5) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 5 mg Ramipril umfasst;

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(6) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 10 mg Ramipril umfasst;

(7) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 2 mg Perindopril-Erbumin umfasst;

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(8) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 4 mg Perindopril-Erbumin umfasst;

(9) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 8 mg Perindopril-Erbumin umfasst;

(10) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 5 mg Lisinopril-Dihydrat umfasst;

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(11) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 10 mg Lisinopril-Dihydrat umfasst;

(12) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 20 mg Lisinopril-Dihydrat umfasst;

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(13) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 2,5 mg Ramipril umfasst;

(14) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 5 mg Ramipril umfasst;

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(15) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 10 mg Ramipril umfasst;

(16) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 2 mg Perindopril-Erbumin umfasst;

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(17) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 4 mg Perindopril-Erbumin umfasst;

(18) eine beschichtete Tablette, die 81 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 8 mg Perindopril-Erbumin umfasst;

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(19) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 5 mg Lisinopril-Dihydrat umfasst;

(20) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20

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mg Simvastatin umfassen, und eine beschichtete Tablette, die 10 mg Lisinopril-Dihydrat umfasst;
(21) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 20 mg Lisinopril-Dihydrat umfasst;
(22) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 2,5 mg Ramipril umfasst;
(23) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 5 mg Ramipril umfasst;
(24) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 10 mg Ramipril umfasst;
(25) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 2 mg Perindopril-Erbumin;
(26) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 4 mg Perindopril-Erbumin umfasst;
(27) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg Simvastatin umfassen, und eine beschichtete Tablette, die 8 mg Perindopril-Erbumin umfasst;
(28) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 5 mg Lisinopril-Dihydrat umfasst;
(29) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 10 mg Lisinopril-Dihydrat umfasst;
(30) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 20 mg Lisinopril-Dihydrat umfasst;
(31) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 2,5 mg Ramipril umfasst;
(32) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 5 mg Ramipril umfasst;
(33) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 10 mg Ramipril umfasst;
(34) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 2 mg Perindopril-Erbumin umfasst;
(35) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 4 mg Perindopril-Erbumin umfasst; und
(36) eine beschichtete Tablette, die 100 mg Acetylsalicylsäure umfasst, zwei beschichtete Tabletten, die je 20 mg des Natriumsalzes von Pravastatin umfassen, und eine beschichtete Tablette, die 8 mg Perindopril-Erbumin umfasst.

4. Kapsel nach Anspruch 1, 2 oder 3, wobei die Kapsel aus Hartgelatine gefertigt ist.
5. Kapsel nach Anspruch 1, 2 oder 3, wobei die Kapsel aus Cellulose gefertigt ist.
6. Kapsel nach einem der Ansprüche 1 bis 5, wobei alle Tabletten ein unmodifiziertes Freisetzungsprofil aufweisen.
7. Verwendung einer Kapsel nach einem der Ansprüche 1 bis 6 zur Herstellung eines Medikaments zur Verhinderung von kardiovaskulären Erkrankungen bei Hochrisikobevölkerungsgruppen.
8. Verwendung nach Anspruch 7, wobei die Hochrisikobevölkerungsgruppen Menschen, die älter als 55 Jahre sind, Patienten mit dem Hintergrund einer Angina Pectoris, von Iktus, Arteriosklerose, der Schaufensterkrankheit, Diabetes, einer Koronarerkrankung, einer peripheren vaskulären Erkrankung, einer veränderten Blutplättchenfunktion, von Hämodialyse, einer Hypercholesterinämie, von Bluthochdruck, eines Myokardinfarktes, von Herzinsuffizienz, von Ischämie, von Nephropathie, eines Herzstillstandes oder der Restenose, Raucher, fettleibige Personen und Personen mit sitzender Tätigkeit sind.

Revendications

1. Capsule qui comprend :

5 (i)

a) w comprimé (s) enrobé (s) comprenant 40,5 mg d'acide acétylsalicylique et x comprimé(s) enrobé(s) comprenant 81 mg d'acide acétylsalicylique, où w est un entier choisi parmi 0 et 1, et x est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale d'acide acétylsalicylique soit de 40,5 à 162 mg et w+x soit 1 ou 2 ; ou

10 b) y comprimé(s) enrobé(s) comprenant 50 mg d'acide acétylsalicylique et z comprimé(s) enrobé(s) comprenant 100 mg d'acide acétylsalicylique, où y est un entier choisi parmi 0 et 1, et z est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale d'acide acétylsalicylique soit de 50 à 200 mg et y+z soit 1 ou 2 ;

15 (ii)

a) s comprimé(s) enrobé(s) comprenant 20 mg de simvastatine et t comprimé(s) enrobé(s) comprenant 40 mg de simvastatine, où s est un entier choisi parmi 0, 1 et 2, et t est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale de simvastatine soit de 20 à 80 mg et s+t soit 1 ou 2 ; ou

20 b) u comprimé(s) enrobé(s) comprenant 20 mg de pravastatine ou un sel pharmaceutiquement acceptable de celle-ci et v comprimés enrobés) comprenant 40 mg de pravastatine ou un sel pharmaceutiquement acceptable de celle-ci, où u est un entier choisi parmi 0, 1 et 2, et v est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale de pravastatine ou un sel pharmaceutiquement acceptable de celle-ci soit de 20 à 80 mg et u+v soit 1 ou 2 ; et

25 (iii)

a) p comprimé (s) enrobé (s) comprenant 5 mg de lisinopril ou une forme hydratée, q comprimé(s) enrobé (s) comprenant 10 mg de lisinopril ou une forme hydratée et r comprimé(s) enrobé(s) comprenant 20 mg de lisinopril ou une forme hydratée, où p est un entier choisi parmi 0 et 1, q est un entier choisi parmi 0 et 1, et r est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale de lisinopril ou forme hydratée soit de 5 à 40 mg et p+q+r soit 1, 2 ou 3 ; ou

30 b) k comprimé(s) enrobé(s) comprenant 2,5 mg de ramipril, m comprimé(s) enrobé(s) comprenant 5 mg de ramipril et n comprimé(s) enrobé(s) comprenant 10 mg de ramipril, où k est un entier choisi parmi 0 et 1, m est un entier choisi parmi 0 et 1, et n est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale de ramipril soit de 2,5 à 20 mg et k+m+n soit 1, 2 ou 3 ; ou

35 c) h comprimé(s) enrobé(s) comprenant 2 mg de périndopril ou un sel pharmaceutiquement acceptable de celui-ci, i comprimé(s) enrobé(s) comprenant 4 mg de périndopril ou un sel pharmaceutiquement acceptable de celui-ci, et j comprimé(s) enrobé(s) comprenant 8 mg de périndopril ou un sel pharmaceutiquement acceptable de celui-ci, où h est un entier choisi parmi 0 et 1, i est un entier choisi parmi 0 et 1, et j est un entier choisi parmi 0, 1 et 2, de sorte que la quantité totale de périndopril ou un sel pharmaceutiquement acceptable de celui-ci soit de 2 à 16 mg et h+i+j soit 1, 2 ou 3 ;

45 où :

les comprimés d'acide acétylsalicylique sont enrobés avec un film comprenant de l'alcool polyvinylique partiellement hydrolysé ;

les comprimés de simvastatine sont enrobés avec un film comprenant de l'hydroxypropylméthylecellulose ;

50 les comprimés de pravastatine ou sel pharmaceutiquement acceptable sont enrobés avec un film comprenant de l'hydroxypropylméthylecellulose ;

les comprimés de lisinopril ou forme hydratée sont enrobés avec un film comprenant de l'alcool polyvinylique partiellement hydrolysé ;

les comprimés de ramipril sont enrobés avec un film comprenant de l'alcool polyvinylique partiellement hydrolysé ; et

55 les comprimés de périndopril ou sel pharmaceutiquement acceptable sont enrobés avec un film comprenant de l'alcool polyvinylique partiellement hydrolysé.

2. Capsule selon la revendication 1, qui comprend :

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(i)

- a) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique ; ou
b) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique ;

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(ii)

- a) deux comprimés enrobés comprenant chacun 20 mg de simvastatine ; ou
b) deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine ; et

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(iii)

- a) un comprimé enrobé comprenant 5, 10 ou 20 mg de lisinopril dihydrate ; ou
b) un comprimé enrobé comprenant 2,5, 5 ou 10 mg de ramipril ; ou
c) un comprimé enrobé comprenant 2, 4 ou 8 mg de sel d'erbumine de périndopril.

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3. Capsule selon la revendication 2, qui comprend une combinaison choisie parmi :

- (1) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 5 mg de lisinopril dihydrate ;
(2) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 10 mg de lisinopril dihydrate ;
(3) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 20 mg de lisinopril dihydrate ;
(4) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 2,5 mg de ramipril ;
(5) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 5 mg de ramipril ;
(6) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 10 mg de ramipril ;
(7) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 2 mg de périndopril erbumine ;
(8) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 4 mg de périndopril erbumine ;
(9) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 8 mg de périndopril erbumine ;
(10) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 5 mg de lisinopril dihydrate ;
(11) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 10 mg de lisinopril dihydrate ;
(12) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 20 mg de lisinopril dihydrate ;
(13) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 2,5 mg de ramipril ;
(14) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 5 mg de ramipril ;
(15) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 10 mg de ramipril ;
(16) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 2 mg de périndopril erbumine ;
(17) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 4 mg de périndopril erbumine ;
(18) un comprimé enrobé comprenant 81 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 8 mg de périndopril erbumine ;
(19) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant

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chacun 20 mg de simvastatine et un comprimé enrobé comprenant 5 mg de lisinopril dihydrate ;
(20) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 10 mg de lisinopril dihydrate ;
(21) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 20 mg de lisinopril dihydrate ;
5 (22) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 2,5 mg de ramipril ;
(23) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 5 mg de ramipril ;
10 (24) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 10 mg de ramipril ;
(25) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 2 mg de périmdopril erbumine ;
(26) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 4 mg de périmdopril erbumine ;
15 (27) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de simvastatine et un comprimé enrobé comprenant 8 mg de périmdopril erbumine ;
(28) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 5 mg de lisinopril dihydrate ;
20 (29) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 10 mg de lisinopril dihydrate ;
(30) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 20 mg de lisinopril dihydrate ;
(31) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 2,5 mg de ramipril ;
25 (32) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 5 mg de ramipril ;
(33) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 10 mg de ramipril ;
30 (34) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 2 mg de périmdopril erbumine ;
(35) un comprimé enrobé comprenant, 100 mg d'acide acétylsalicylique deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 4 mg de périmdopril erbumine ; et
35 (36) un comprimé enrobé comprenant 100 mg d'acide acétylsalicylique, deux comprimés enrobés comprenant chacun 20 mg de sel de sodium de pravastatine et un comprimé enrobé comprenant 8 mg de périmdopril erbumine.

- 40 4. Capsule selon la revendication 1, 2 ou 3, **caractérisée en ce que** ladite capsule est constituée de gélatine dure.
5. Capsule selon la revendication 1, 2 ou 3, **caractérisée en ce que** ladite capsule est constituée de cellulose.
- 45 6. Capsule selon l'une quelconque des revendications 1 à 5, **caractérisée en ce que** tous les comprimés ont un profil de libération non modifié.
7. Utilisation d'une capsule selon l'une quelconque des revendications 1 à 6 pour la fabrication d'un médicament pour la prévention de maladies cardiovasculaires dans des populations à haut risque.
- 50 8. Utilisation selon la revendication 7 dans laquelle les populations à haut risque sont des personnes âgées de plus de 55 ans, les patients avec des antécédents d'angine de poitrine, ictus, artériosclérose, claudication intermittente, diabète, maladie coronarienne, maladie vasculaire périphérique, fonction plaquettaire altérée, hémodialyse, hypercholestérolémie, hypertension, infarctus du myocarde, insuffisance cardiaque congestive, ischémie, néphropathie, arrêt cardiaque ou resténose, tabagisme, personnes obèses et personnes sédentaires.

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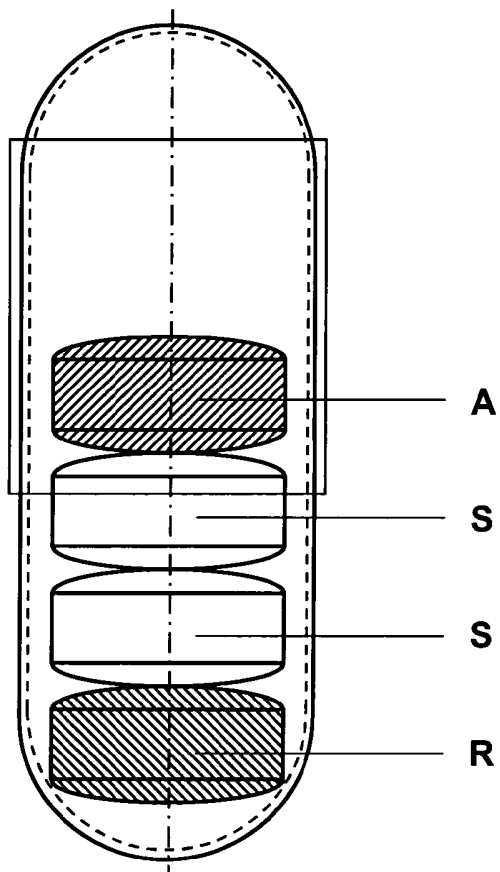


Fig. 1

REFERENCES CITED IN THE DESCRIPTION

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Kapszula kardiovaszkuláris betegségek megelőzésére

Szabadalmi igénypontok

1. Kapszula mely tartalmaz:

(i) a) w 40.5 mg acetilszalicilsavat tartalmazó bevont tablettát és x bevont, 81 mg acetilszalicilsavat tartalmazó bevont tablettát, ahol w értéke 0 és 1 közül választott, és x értéke 0, 1 és 2 közül választott, oly módon, hogy az acetilszalicilsav összmenyisége 40.5-162 mg és w+x értéke 1 vagy 2; vagy

b) y 50 mg acetilszalicilsavat tartalmazó bevont tablettát és z 100 mg acetilszalicilsavat tartalmazó bevont tablettát, ahol y értéke 0 és 1 közül választott, és z értéke 0, 1 és 2 közül választott, oly módon, hogy az acetilszalicilsav összmenyisége 50-200 mg és y+z értéke 1 vagy 2;

(ii) a) s 20 mg simvastatint tartalmazó bevont tablettát és t 40 mg simvastatint tartalmazó bevont tablettát, ahol s értéke 0, 1 és 2 közül választott, és t értéke 0, 1 és 2 közül választott, oly módon, hogy a simvastatin összmenyisége 20-80 mg és s+t értéke 1 vagy 2; vagy

b) u 20 mg pravastatint vagy gyógyászatilag elfogadható sóját tartalmazó bevont tablettát és v 40 mg pravastatint vagy gyógyászatilag elfogadható sóját tartalmazó bevont tablettát, ahol u értéke 0, 1 és 2 közül választott, és v értéke 0, 1 és 2 közül választott, oly módon, hogy a pravastatin vagy gyógyászatilag elfogadható sójának összmenyisége 20-80 mg és u+v értéke 1 vagy 2; és

(iii) a) p 5 mg lisinopril vagy hidrátált formáját tartalmazó bevont tablettát, q 10 mg lisinopril vagy hidrátált formáját tartalmazó bevont tablettát és r 20 mg lisinopril vagy hidrátált formáját tartalmazó bevont tablettát, ahol p értéke 0 és 1 közül választott, q értéke 0 és 1 közül választott, és r értéke 0, 1 és 2 közül választott, oly módon, hogy a lisinopril vagy hidrátált formájának összmenyisége 5-40 mg és p+q+r értéke 1, 2 vagy 3; vagy

b) k 2.5 mg ramipril tartalmazó bevont tablettát, m 5 mg ramipril tartalmazó bevont tablettát és n 10 mg ramipril tartalmazó bevont tablettát, ahol k értéke 0 és 1 közül választott, m értéke 0 és 1 közül választott, és n értéke 0, 1 és 2 közül választott, oly módon, hogy a ramipril összmenyisége 2.5-20 mg és k+m+n értéke 1, 2 vagy 3; vagy

c) h 2 mg perindopril vagy gyógyászatilag elfogadható sóját tartalmazó bevont tablettát, i 4 mg perindopril vagy gyógyászatilag elfogadható sóját tartalmazó bevont tablettát, és j 8

mg perindoprilt vagy gyógyászatilag elfogadható sóját tartalmazó bevont tablettát, ahol h értéke 0 és 1 közül választott, i értéke 0 és 1 közül választott, és j értéke 0, 1 és 2 közül választott, oly módon, hogy a perindopril vagy gyógyászatilag elfogadható sójának összmenyisége 2-16 mg és $h+i+j$ értéke 1, 2 vagy 3;

ahol:

az acetilszalícilsav tabletták részlegesen hidrolizált polivinilalkoholt tartalmazó filmmel bevontak;

a simvastatin tabletták hidroxipropilmetil cellulózt tartalmazó filmmel bevontak;

a pravastatint vagy gyógyászatilag elfogadható sóját tartalmazó tabletták hidroxipropilmetilcellulózt tartalmazó filmmel bevontak;

a lisinoprilt vagy hidratált formáját tartalmazó tabletták részlegesen hidrolizált polivinilalkoholt tartalmazó filmmel bevontak;

a ramipril tabletták részlegesen hidrolizált polivinilalkoholt tartalmazó filmmel bevontak; és

a perindoprilt vagy gyógyászatilag elfogadható sóját tartalmazó tabletták részlegesen hidrolizált polivinilalkoholt tartalmazó filmmel bevontak.

2. Az 1. igénypont szerinti kapszula, mely tartalmaz:

- (i) a) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettát; vagy
b) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettát;
- (ii) a) két, egyenként 20 mg simvastatint tartalmazó bevont tablettát; vagy
b) két, egyenként 20 mg pravastatinnátriumsót tartalmazó bevont tablettát; és
- (iii) a) egy 5, 10 vagy 20 mg lisinoprildihidrátot tartalmazó bevont tablettát; vagy
b) egy 2,5, 5 vagy 10 mg ramiprilt tartalmazó bevont tablettát; vagy
c) egy 2, 4 vagy 8 mg perindoprilerbumínsót tartalmazó bevont tablettát.

3. Egy 2. igénypont szerinti kapszula, mely egy, alábbiak közül választott kombinációt tartalmaz:

- (1) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettát, két, egyenként 20 mg simvastatint tartalmazó bevont tablettát és egy 5 mg lisinoprildihidrátot tartalmazó bevont tablettát;
- (2) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettát, két, egyenként 20 mg simvastatint tartalmazó bevont tablettát és egy 10 mg lisinoprildihidrátot tartalmazó bevont tablettát;
- (3) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettát, két, egyenként 20 mg simvastatint tartalmazó bevont tablettát és egy 20 mg lisinoprildihidrátot tartalmazó bevont tablettát;

- (4) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 2.5 mg ramiprilt tartalmazó bevont tablettá;
- (5) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 5 mg ramiprilt tartalmazó bevont tablettá;
- (6) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 10 mg ramiprilt tartalmazó bevont tablettá;
- (7) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 2 mg perindoprilérbumint tartalmazó bevont tablettá;
- (8) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 4 mg perindoprilérbumint tartalmazó bevont tablettá;
- (9) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 8 mg perindoprilérbumint tartalmazó bevont tablettá;
- (10) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 5 mg lizinoprilidihidrátot tartalmazó bevont tablettá;
- (11) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 10 mg lizinoprilidihidrátot tartalmazó bevont tablettá;
- (12) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 20 mg lizinoprilidihidrátot tartalmazó bevont tablettá;
- (13) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 2.5 mg ramiprilt tartalmazó bevont tablettá;
- (14) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 5 mg ramiprilt tartalmazó bevont tablettá;
- (15) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 10 mg ramiprilt tartalmazó bevont tablettá;
- (16) egy 81 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravastatin nátriumsót tartalmazó bevont tablettá és egy 2 mg perindoprilérbumint tartalmazó bevont tablettá;

- (17) egy 81 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 4 mg perindoprilérbumint tartalmazó bevont tablettá;
- (18) egy 81 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 8 mg perindoprilérbumint tartalmazó bevont tablettá;
- (19) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 5 mg lisinoprilidihidrátot tartalmazó bevont tablettá;
- (20) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 10 mg lisinoprilidihidrátot tartalmazó bevont tablettá;
- (21) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 20 mg lisinoprilidihidrátot tartalmazó bevont tablettá;
- (22) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 2.5 mg ramiprilé tartalmazó bevont tablettá;
- (23) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 5 mg ramiprilé tartalmazó bevont tablettá;
- (24) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 10 mg ramiprilé tartalmazó bevont tablettá;
- (25) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 2 mg perindoprilérbumint tartalmazó bevont tablettá;
- (26) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 4 mg perindoprilérbumint tartalmazó bevont tablettá;
- (27) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg simvastatint tartalmazó bevont tablettá és egy 8 mg perindoprilérbumint tartalmazó bevont tablettá;
- (28) egy 100 mg acetilszalicilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 5 mg lisinoprilidihidrátot tartalmazó bevont tablettá;

(29) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 10 mg lisinopril-dihidrátot tartalmazó bevont tablettá;

(30) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 20 mg lisinopril-dihidrátot tartalmazó bevont tablettá;

(31) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 2.5 mg ramipril-t tartalmazó bevont tablettá;

(32) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 5 mg ramipril-t tartalmazó bevont tablettá;

(33) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 10 mg ramipril-t tartalmazó bevont tablettá;

(34) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 2 mg perindopril-erbumint tartalmazó bevont tablettá;

(35) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 4 mg perindopril-erbumint tartalmazó bevont tablettá; és

(36) egy 100 mg acetilszalícilsavat tartalmazó bevont tablettá, két, egyenként 20 mg pravasztatin nátriumsót tartalmazó bevont tablettá és egy 8 mg perindopril-erbumint tartalmazó bevont tablettá.

4. Az 1., 2. vagy 3. igénypont szerinti kapszula, ahol a kapszula kemény zselatínból készült.

5. Az 1., 2. vagy 3. igénypont szerinti kapszula, ahol a kapszula cellulózból készült.

6. Az 1-5. igénypontok bármelyike szerinti kapszula, ahol valamennyi tablettá nem-módosított leadási profilú.

7. Az 1-6. igénypontok bármelyike szerinti kapszula alkalmazása magas rizikójú populációban cardiovascularis betegségek megelőzésére szolgáló gyógyszer előállítására.

8. A 7. igénypont szerinti alkalmazás, ahol a magas rizikójú populáció 55 évnél idősebb emberek csoportja, akik angina pectoris, ictus, arteriosclerosis, intermittens claudicatio, diabetes, koszorúér betegség, perifériás érrendszeri betegség, módosult véraláfutás funkció, haemodialysis, hypercholesterolaemia, magas vérnyomás, myocardialis infarktus, congestív szívelégtelenség, ischaemia, nephropathia, szívleállás vagy restenosis háttérrel rendelkeznek, dohányosok, elhízott emberek és ülő életmódú emberek.

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