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(72) Inventeurs/Inventors:  
ALCANTARA MARTINS ZUCCHETTI, ROBERTO, BR;  
VILLA NOVA SILVA, LUCIANA, BR;  
CHITARRA SOUZA, SIMONI, BR;  
FANAN, SIMONE, BR;  
...

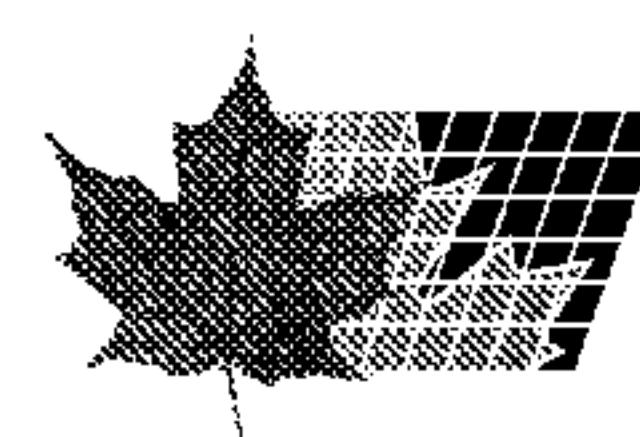
(73) Propriétaire/Owner:

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(54) Title: BIPHASIC SKIN COMPOSITION COMPRISING ASCORBIC ACID, CERAMIDES AND BETAGLYCANE

(57) Abrégé/Abstract:

The present invention relates to a biphasic composition for cosmetic or pharmaceutical use comprising antioxidants and beneficial compounds for the skin, such as moisturizers and immunomodulators. The composition comprises ascorbic acid as the antioxidant compound and ceramides as the selected moisturizing agent and betaglycane as the immunomodulator, presenting a low potential risk for sensitization and having effective antioxidant action, in addition to an outstanding sensitive effect.



(72) **Inventeurs(suite)/Inventors(continued):** GESZTESI, JEAN-LUC, BR; MARTINS MATHEUS, LUIZ GUSTAVO, BR; POMMEZ, PHILIPPE JOSEPH, BR

(73) **Propriétaires(suite)/Owners(continued):** INDUSTRIA E COMERCIO DE COSMETICOS NATURA LTDA., BR

(74) **Agent:** OGILVY RENAULT LLP/S.E.N.C.R.L., S.R.L.

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(71) Applicant (for all designated States except US): **INDÚSTRIA E COMÉRCIO DE COSMÉTICOS NATURA LTDA.** [BR/BR]; Rodovia Regis Bittencourt S/N, KM 293, CEP-06850 Itapecerica da Serra, SP (BR).

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(72) Inventors; and

**Published:**(75) Inventors/Applicants (for US only): **ALCANTARA MARTINS ZUCCHETTI, Roberto** [BR/BR]; Rua Serra do Japi, 242, Apto. 23B, Tatuapé, São Paulo, SP (BR). **VILLA NOVA SILVA, Luciana** [BR/BR]; Rua Américo Alves Pereira Filho, 564, Morumbi, São Paulo, SP (BR). **CHITARRA SOUZA, Simoni** [BR/BR]; Rua Estela, 22, Apto. 331, Paraíso, São Paulo, SP (BR). **FANAN, Simone** [BR/BR]; Rua Rafael Sampaio, 500, Campinas,

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(54) Title: TWO-COMPONENT COMPOSITION FOR COSMETIC OR PHARMACEUTICAL USE

(57) Abstract: The present invention relates to a biphasic composition for cosmetic or pharmaceutical use comprising antioxidants and beneficial compounds for the skin, such as moisturizers and immunomodulators. The composition comprises ascorbic acid as the antioxidant compound and ceramides as the selected moisturizing agent and betaglycane as the immunomodulator, presenting a low potential risk for sensitization and having effective antioxidant action, in addition to an outstanding sensitive effect.

WO 01/05357 A1

## BIPHASIC SKIN COMPOSITION COMPRISING ASCORBIC ACID, CERAMIDES AND BETAGLYCANE

### Field of the Invention

5 The present invention relates to an aqueous composition especially improved for cosmetic and pharmaceutical compositions, comprising antioxidant compounds and other beneficial compounds for the skin as moisturizers and immunomodulators.

### 10 Prior Art

Cosmetic and pharmaceutical compositions including antioxidants are very well known for improving the skin aspect, e. g., preventing marks from showing on the skin, such as wrinkles, flaccidity, spots, or to treat mild problems such as irritations and other 15 mild diseases.

In this kind of composition, antioxidant compounds are commonly used, such as levogyrous ascorbic acid (LAA), popularly known as "Vitamin C" and proanthocyanidins (OPC) because, among other characteristics, they act against the free radicals which accelerate the aging process and the cellular degeneration.

20 Said compositions lack, however, the supplying of a substantial improvement in the general quality of the skin, because they normally approach one or another problem singly. In addition, if on the one hand antioxidants bring improvement benefits for the skin or help to the cells health, on the other hand they can cause sensitivities to certain people.

25 When sensitivities occur, they can be attributed to the nature of certain antioxidants or to the concentrations required to obtain the desired benefits, which can vary from 5 to 10% or even 20% by weight. Lower antioxidants concentrations might not be potentially irritant, however, the effects they produce are below what would be desirable.

30 Still in that respect, compositions comprising antioxidants derivatives are very used. Only as an example, LAA esters can be used instead ascorbic acid in its molecular form (LAA). This kind of composition gives rise, until nowadays, to a great discussion among scientists, as for its effectiveness.

35 One fact that reinforces the theory of a better effectiveness of the antioxidants in their original form is the quantity of studies and publications related to the stabilization of such compounds. Examples of these studies are described in Brazilian patent

applications PI 9704418-0 and PI 9704728-7 and in the prior art references mentioned therein, all of them dedicated to the LAA stabilization.

The OPC's, in their turn, are known by those skilled in the art from many already published works. One of these relates to the patent granted in the United States under 5 number US 4,698,360, to Masquelier, Jacque.

In that patent, anti-free radicals effects provided by such compounds are discussed, with therapeutic indications, including by oral, intravenous and topical route.

Compounds exclusively comprising OPC can bring beneficial effects to the user, however, they show a limited action and benefits scope.

10 In a further evolution, the patent granted in the United States to Lerner, Sheldom under number US 5,470,874 describes compositions comprising as main actives associated OPC's as a mixture to the ascorbic acid in its molecular form and derivatives as the ascorbyl palmitate.

15 As it can be noted from this last document mentioned, the composition taught therein to obtain a set of benefits for the skin is extremely complex, having always more than ten ingredients.

In addition to the composition complexity, the benefit scope provided by such composition is limited. Although the number of benefits counted is larger than the one described in US 4,698,360, these could bring some disadvantages.

20 A first disadvantage is a result of the high LAA contents used, always above 10%, sometimes reaching 25%, which cause a greater skin exfoliation and an uncomfortable sensation (burning), sometimes causing a contact allergy or even making the skin more sensitive to inflammations.

25 In addition, these high contents provide a very acid pH that causes a lower effectiveness in the complexing activity of the preservative included therein, namely EDTA, which leads to a faster degradation of the LAA.

30 Summarizing, the aggressive condition provided by the combination of compounds disclosed in the above patent becomes damaging also because it is free from any present or associated entity capable of reducing such aggressiveness in such a way to supply a comfortable product for the user.

Therefore, it is an objective of the present invention to provide a composition for cosmetic or pharmaceutical use which supplies a wide range of benefits, and while in

use, provides to the user a solution of commitment between the expected effectiveness, due to the presence of antioxidants, and the comfort for the user, with superior results when compared with the known compositions as far as improvement of skin quality are concerned.

5 **Summary of the Invention**

The present invention relates to a composition for cosmetic or pharmaceutical use wherein it comprises a first phase which contains an antioxidant compound in an aqueous medium, and a second phase which comprises a moisturizer compound and an immunomodulator, and wherein the proportion of said first to the second phase is 10 from 6:1 to 14:1.

In accordance with one aspect, there is provided the use of a composition of the invention as cosmetic.

In one aspect, the invention provides a composition for cosmetic or pharmaceutical use characterized in that it comprises a first phase comprising, in an 15 aqueous medium, ascorbic acid as an antioxidant compound present at 1 to 30% by weight, and a second phase which comprises 0.5 to 3.0% of ceramides as moisturizer and 0.5 to 3.0% of a betaglycane immunomodulator, the proportion between said first and second phases being in the range of 6:1 to 14:1 weight ratio, all percentages in weight relative to the total weight of the composition of each phase.

20 **Detailed Description of the Invention**

It was surprisingly found by the present inventors that a composition for cosmetic or pharmaceutical use comprising, at least one antioxidant in a first phase and, in a second phase, at least one moisturizing agent and one immunomodulator, wherein the application proportion between the first and the second phases ranges from 6:1 to 14:1 25 provides a wide range of benefits and, while in use, provides to the user both effectiveness, in view of the presence of antioxidants, and the comfort for the user, i.e., low potential of irritation, with superior results when compared with compositions known from the prior art as far as improvement of skin quality is concerned.

Antioxidants useful for the present invention should be understood as 30 compounds or mixture of compounds which have properties against the free radicals present in the body, especially in the skin.

Moisturizing agents useful for the present invention are compounds or mixtures of compounds able to restructure the skin barrier.

Immunomodulators are understood as any compound or mixture of compounds able to reinforce the skin immunological system.

According to a preferred embodiment of the present invention, the composition for cosmetic or pharmaceutical use comprises two different phases, which, due to their 5 nature, can be conveniently packed in only one dispenser. Each phase, however, must be present in sealed compartments within said dispenser, which prevent contact between the phases prior to the moment of use, when they are simultaneously dispensed from said dispenser, e.g., due to incompatibility between both of them, which

could lead to the unstableness or degradation of the compounds as time goes by. An example of this kind of package is described in patent document WO 97/27841.

According to the above embodiment of the invention, the composition comprises in a first dispenser compartment, a first phase containing an aqueous composition comprising an antioxidant, preferably ascorbic acid, present at a concentration from 1 to 30% and, in a second phase, a moisturizer such as ceramides, from 0.5 to 3.0%, and the sodic betaglycan carboxyl immunomodulator, also known as betaglycane, present in a content from 0.5 to 3.0%, the application proportion between said first and second phases being from 6:1 to 14:1. All percentages set forth above are in weight relative to the total weight of the composition of each phase.

In a preferred embodiment of the present invention, such composition comprises in a first dispenser compartment, a first phase in which an aqueous composition is present, comprising a plurality of antioxidants such as ascorbic acid, present at a percentage from 1 to 20%, and OPC's present from about 0.001 to 2.2% and, in a second phase, a moisturizer such as ceramides, preferably ceramides contained in a liquid crystal emulsion, also called lamellar ceramide, in a content from 0.5 to 3.0% associated to the sodic betaglycan carboxyl immunomodulator, also known as betaglycane, present in a content from 0.5 to 3.0%, the application proportion between said first and second phases being from 6:1 to 14:1, preferably, between 12:1 to 8:1. All the percentages mentioned above are in weight relative to the total weight of the composition of each phase.

It was found that the use of compositions as described above improves the strength and natural protection of the skin against external aggressions due to the association of the restructuring effect of the skin lipidic barrier by the lamellar ceramides with the reinforcement effect of the skin immunological system provided by the betaglycanes.

In an even more preferred embodiment of the invention, the composition comprises a first phase in a first dispenser compartment, where an aqueous composition is present comprising a plurality of antioxidants such as the ascorbic acid present at a percentage from 1 to 20%, preferably between 5 and 18%, and OPC's, present from about 0.001 to 2.2%, preferably between 0.01 and 1.7% and, in a second phase, a moisturizer such as ceramides, preferably ceramides contained in a liquid crystal emulsion, also called lamellar ceramide, in a range from 0.5 to 3.0%, preferably

between 1.5 to 2.5%, associated to sodic betaglycan carboxyl the immunomodulator, also known as betaglycane, which is present in a content from 0.5 to 3.0%, preferably between 1.5 to 2.5%, the application proportion between said first and second phases 5 being from 6:1 to 14:1, preferably, between 12:1 to 8:1, and most preferably, around 11:1. All the percentages above mentioned are in weight relative to the total weight of the composition of each phase.

It has been observed that an adequate proportion between the first phase and the second phase is at about 6:1 to 14:1, preferably between 12:1 to 8:1 and, most 10 preferably around 11:1. The association of the two phases recovers the skin vitality and imparts an improvement of the skin strength and natural protection.

In vitro studies carried out by the inventors showed that the effects obtained with the composition of the invention can be improved when the ascorbic acid is the levogyrous ascorbic acid (LAA), present within a selected concentration range.

15 Several essays were carried out by the inventors with the objective of determining in which concentration range the levogyrous ascorbic acid (LAA) has antioxidant and pro-oxidant activity and the results showed that LAA pro-oxidant action occurs in a concentration range between 0.005% and 0.01% while the antioxidant action occurs in ranges between 0.0001% and 0.001% and between 1 and 10%. In 20 these essays, it was also observed that at concentrations between 0.1 and 0.4%, preferably around 0.3 of OPC's associated to the LAA in an aqueous medium, the pro-oxidant effect of the LAA present in the percentage range where it acts as pro-oxidant is inhibited. This conclusion derives from the observation that, in this essay, the deoxyribose degradation decreases 78%.

25 In one embodiment, the proanthocyanidins are group seed oligomers.

Advantageously, said first phase contains the antioxidants in their molecular 30 stable or original form (without degradation) but their salts and esters could also be used, certainly leading to good results. In this last case where salts, esters or polymerized antioxidants are to be used, it is believed that the separation between the first and the second phase prior to use could, in some particular cases, be unnecessary. In addition, other compounds can be easily added to the above described components without representing much difficulty for those skilled in the art. Just as an example, such compounds include fragrances thickeners, and moisteners or other moisturizers.

In another even more advantageous embodiment, the composition of the invention comprises, in a first phase, at least one antioxidant compound in an aqueous medium, at least one deoxygenating compound, and at least one metallic ions sequestering compound, and at least one reducing agent.

5 It has been now surprisingly found by the present inventors that the association of at least one antioxidant compound, in an aqueous medium, with a reducing agent, without considering the oxidation reaction stoichiometry, a deoxygenating agent and a metallic ions sequestering compounds, makes it possible to improve the performance and the synergy of such first phase with the second phase of said composition, even  
10 10 when using ascorbic acid contents lower than 10%, without impairing the composition performance, as it will be further described in detail.

For the purposes of the present invention, some terms definitions are presented below.

15 A reducing agent is any compound or mixture of compounds which shows a oxidation potential greater than the oxidation potential of the antioxidant to be stabilized so that the antioxidant subcompounds that are generated return to the original antioxidant form, that is to say, to its molecular form.

Concerning the deoxygenating compound, it is any compound or mixture of compounds able to diminish the oxygen solubility in a medium containing water and the  
20 antioxidant to be stabilized.

The metallic ions sequestering compound is any compound or mixture of compounds that shows a low complexing constant and is effective for capturing and retaining such ions at pH values under 5.0. The sequestering effectiveness comprises its capacity of complexing the metallic ions present in a medium containing water with  
25 the antioxidant to be stabilized, whereby minimizing and, preferably, preventing the decomposition catalysis of any antioxidant present in that medium.

The above embodiment of the invention is particularly adequate to obtain the desired stabilization effects and, at the same time, comfort for the user. In addition, it provides stabilization of compositions containing antioxidant compounds such as  
30 levogyrous ascorbic acid (LAA), proantocyanidins (OPC), or both, the obtained stabilization being effective for long periods of time.

According to that embodiment of the invention, wherein LAA is present as

antioxidant in a water containing medium, the deoxygenating compound is selected from the glycol group, most preferably among propylene glycol and butylene glycol and mixtures thereof, most preferably propylene glycol.

The metallic ions sequestering compound, in its turn, is selected from the group of 5 ethylenephosphonic acids, its salts and mixtures thereof, or from the group that comprises phosphonates, which include di-, tri-, tetra- and pentavalent acids, their salts and mixtures thereof. More specifically, the compound able to sequester metallic ions can be selected from the group that comprises sodium salt of 1-hydroxyethylidene (1,1 diphosphonic) acid, ethylenediaminetetra (methylenephosphonic) acid, sodium salt of ethylenediaminetetra (methylenephosphonic) acid, sodium salt of diethyleneaminepenta 10 (methylenephosphonic) acid, hydroxyethylidene (1,1 diphosphonic) acid and mixtures thereof. Preferably the metallic ions sequestering agent is 1- hydroxyethylidene (1,1 diphosphonic) acid commercialized under the name Dequest™ 2010 and supplied by MONSANTO.

15 In addition to the antioxidant, a preferred composition according to the invention comprises, in the first phase, about 15 to 19% of propylene glycol, about 0.01 to 1% of methyl paraben, about 0.05 to 1% of propyl paraben, from 0.05 to 0.5% of glutathion, from 0.1 to 0.5% of 1- hydroxyethylidene (1,1 diphosphonic) acid, the balance being water in enough quantity to complete 100% of the weight of such phase; wherein the 20 second phase also includes compounds selected from xantham gum thickeners, carbomer and its mixtures, present at about 0.3 to 0.7%, selected methyl paraben, prophil paraben preservatives and mixtures thereof, present at 0.09 to 0.27%.

According to another preferred embodiment of the invention, the first phase of 25 the composition comprises antioxidant compounds in an aqueous solution, which also contains the deoxygenating compound and the metallic ions sequestering agent in a proportion varying from 2500:1 to 50:1. In addition, such first phase further includes LAA reducing agent in a ratio varying from 2520:1 to 20:1 in relation to the sum of the deoxygenating compound and the sequestering agent mass, and in proportion varying from 1:0,02 to 3000:1, in relation to the oxidant compound mass. An advantage 30 resulting from the invention is the LAA outstanding stability as time goes by. When compared to conventional compositions containing the same kind of reducing agent already known by those skilled in the art, the invention permits the use of reducing

compounds in significantly lower quantities, making their use possible in cosmetic and/or pharmaceutical compositions, thus overcoming the prior art disadvantages related to the bad smell aspect and the legal limitations of reducing compound concentration.

5 Suitable reducing agents are the ones already known for this purpose and include sulphurated compounds preferably chosen from the group composed of sodium dithionite, sodium disulphides, calcium disulphides, potassium disulphides, and even most preferably, Glutathion, as well as mixtures thereof.

10 In a commercially adequate cosmetic composition containing, for example, LAA as the antioxidant agent, it is usually employed within a range from about 0.01%, to about 30%, preferably from about 0.5% to about 20%, by weight, while the deoxygenating compound is used within a range from about 10% to about 25%, preferably from about 16% to about 19% and the sequestering agent is used within a range from about 0.01% to about 0.20%, preferably from about 0.10% to about 0.20%,  
15 all the percentages in weight, based on the total weight of the composition. The reducing agent is present in a concentration from about 0.01% to about 0.5%, preferably from about 0.05% to about 0.2%. The amounts of these components will depend, however, on the final objectives of the resulting composition, and they are not restrictive of the invention.

20 In another embodiment of the invention, a first phase of the invention composition comprises the LAA as described in the two last embodiments and OPC's present in a range of about 0.001 to 2.2%, or even present from about 0.01 to 1.7%, and preferably around 0.3%.

25 Any of these embodiments for the first phase can be successfully considered together with any one of the second phases described above in proportions from 6:1 to 14:1, preferably between 12:1 to 8:1, and most preferably, around 11:1.

30 The illustrative examples and tests presented below will better describe the present invention. Nevertheless, the illustrated data and procedures relate merely to some embodiment of the present invention and should not be considered as restrictive of its scope.

Example I:

A composition has been prepared comprising a first phase and a second phase, which

comprise:

### First Phase

Ingredient	% mass
Water	About 75
Propylene glycol	18
Methyl paraben	0.2
Propyl paraben	0.1
Glutathion	0.1
1-hydroxyethylidene (1,1 diphosphonic) acid (Dequest®)	0.15
LAA	from 1 to 30
OPC	0.3
Modified Xantham Gum	1.4

5

### Second Phase

Ingredient	% mass	
Water	76.20	Vehicle
Xantham Gum	0.27	Thickener
Methyl paraben (Nipagin)™	0.18	Preservative
Propyl paraben (Nipazol)™	0.09	Preservative
Carbomer (Carbopol 141)™	0.27	Thickener
Glycerin	9.09	Moistener
Essence	0.54	Fragrance
Lamellar ceramide	2.12	Skin barrier restructuration agent
Sodium Lauril lactilate	9.09	Disperser
Sodium carboxymethyl betaglycan (Betaglycane)	2.13	Stimulating active

The above composition permits the simultaneous application of selected proportions of compounds as defined in the first phase and in the second phase, what brings a surprising synergy, providing a wide range of benefits to the user. Among the beneficial effects of this product, many of which are explained in the further detailed

5 tests, the following properties of the composition on the skin are detected :

- improves its exuberance;
- assuages the aging marks of skin (wrinkles and flaccidity);
- improves the skin tint, assuaging the spots appearance;
- stimulates and protect the skin immunological system;
- 10 - improves and recover the skin lipidic barrier;
- reduces dark circles;
- improves the aspect of varicose legs;
- improves oral affections (aphthae).

The results of the tests showed below prove the perception of several benefits by

15 users, as well as prove the clinical effectiveness of the product.

A panel has been composed, in a blind study, with 45 volunteers evaluated at 4 moments: immediately after the first application; after one week of use; after one fortnight of use, and after 30 days of use of the product. The supplied product had selected proportions of the first phase to the second phase about 11:1 and had the

20 composition described in Example I above. In all the analyzed moments, the product was evaluated by the consumer and by the doctor. The results of this evaluation are described in Tables I and II, respectively, where the expressed percentages represent the amount of users who noticed that the correspondent benefit has indeed occurred.

**Table 1: Evaluation of the product performance by the consumer**

Attributes	After 1st Application (%)	After 7 days (%)	After 15 days (%)	After 30 days (%)
Protection	8.9	86.7	86.7	93.3
Skin lightening	40.0	80.0	91.1	95.5
More exuberance	86.7	95.5	97.8	97.8
Improvement of softness	93.3	95.5	97.8	97.8
Improvement of tensing action	93.3	95.5	95.5	95.5
Moisture improvement	93.3	97.8	97.8	97.8
Improvement of fine lines (fine wrinkles)	15.5	55.5	64.5	68.9
Cared/Nourished	68.9	97.8	97.8	97.8

**Table 2: Evaluation of the product performance by the doctor**

Attributes	After 1st Application (%)	After 7 days (%)	After 15 days (%)	After 30 days (%)
Skin lightening	13.3	60.0	68.9	68.9
Improvement of softness	95.5	95.5	97.8	97.8
Improvement of tensing action	82.2	93.3	93.3	93.3
Moisture improvement	95.5	97.8	97.8	97.8
Improvement of fine lines	17.8	55.5	62.2	68.9

It was observed that the above mentioned results are achieved firstly due to the selection of the nature of the antioxidant compounds and of the moisturizing agents

associated to immunomodulators, which, when in contact with skin, produce an advantageous synergistic effect. It is worth observing that in the group of users, all of them indistinctly noticed an improvement greater than 93% for seven out of eight benefits evaluated.

5 In addition, equally important, the proportion of availability of the first and second phases permitted to find a solution of commitment between the effective antioxidant action and the comfort to the user.

## CLAIMS

1. Composition for cosmetic or pharmaceutical use characterized in that it comprises a first phase comprising, in an aqueous medium, ascorbic acid as an antioxidant compound present at 1 to 30% by weight, and a second phase which comprises 0.5 to 3.0% of ceramides as moisturizer and 0.5 to 3.0% of a betaglycane immunomodulator, the proportion between said first and second phases being in the range of 6:1 to 14:1 weight ratio, all percentages in weight relative to the total weight of the composition of each phase.
2. Composition according to claim 1, characterized in that the first phase comprises ascorbic acid present at 1 to 10% by weight relative to the total weight of the composition of each phase.
3. Composition according to claim 1, characterized in that the first phase comprises a mixture of antioxidants comprising ascorbic acid, present at 1 to 20%, and proanthocyanidins, present at 0.001 to 2.2%, all percentage in weight relative to the total weight of the composition of each phase.
4. Composition according to claim 3, wherein said ceramides is lamellar ceramides.
5. Composition according to claim 4, wherein the proportion between said first and second phases is 12:1 to 8:1 weight ratio.
6. Composition according to claim 5, characterized in that the mixture of antioxidants of the first phase comprises 5 to 18% of ascorbic acid and 0.01 to 1.7% of proanthocyanidins and the second phase comprises 1.5 to 2.5% of lamellar ceramides as moisturizer, and 1.5 to 2.5% of betaglycane as the immunomodulator, all percentage in weight relative to the total weight of the composition of each phase.
7. The Composition according to claim 6 wherein the proportion between said first and second phase is 11:1 weight ratio.

8. Composition according to any one of claims 3 to 7, characterized in that the ascorbic acid is in the levogyrous molecular form, the proanthocyanidins are grape seed oligomers present at 0.1 to 0.4% by weight relative to the total weight of the composition of each phase, wherein said first and second phases are maintained separated prior to the moment of use.
9. The composition of claim 8, wherein the proanthocyanidins are grape seed oligomers present at about 0.3% by weight relative to the total weight of the composition of each phase.
10. Composition according to claim 9, characterized in that the first phase further includes from 15 to 19% of propylene glycol, from 0.01 to 1% of methyl paraben, from 0.05 to 1% of propyl paraben, from 0.05 to 0.5% of glutathion, from 0.1 to 0.5% of 1-hydroxyethylidene (1,1 diphosphonic) acid, the balance being water in enough quantity to complete 100% of the weight of such phase; wherein the second phase further includes compounds selected from xantham gum thickeners, carbomer and its mixtures, present at from 0.3 to 0.7%, and preservatives selected from methyl paraben, propyl paraben and mixtures thereof, present at 0.09 to 0.27%.
11. Use of a composition as claimed in any one of claims 1 to 10 as a cosmetic.