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SKIN REGENERATING COSMETIC COMPOSITION

The invention relates to a skin regenerating cosmetic composition.

There are many excellent compositions on the cosmetic market, the great part of which is based on synthetic materials. The skin regenerating compositions mainly due to their fat and water content improve the condition of the skin. Recently also the use of active ingredients of plant origin is discussed. Because of the great variety of the active ingredients of plant origin only the following are mentioned as examples: grape, palm, fruit of the cocoa tree, gingko leaf (German Patent specifications 1,492,023, 1,492,118, 1,492,148, 1,617,365, 1,767,098 and 2,232,733). But the plant residues obtained during the processing of agricultural cultivated plants and mainly as waste in the preserves industry have not been examined in view of their applicability in the cosmetic industry.

The aim of the present invention was to find new active ingredients of plant origin for the use in the cosmetic industry.

Some preferred embodiments concern plant pieces obtained as waste during the processing of agricultural cultivated plants which can be used as active ingredients in cosmetic compositions.

During our experiments it has been surprisingly found that by the extraction of the pod and/or grain

of green peas an active ingredient solution was obtained which was excellently suitable for calming inflamed skin, improving the scar tissue formation of wounded skin, for sun screening, and for treating pustules of other inflammatory conditions, when admixed in a suitable ratio with diluents and/or vehicles and optionally other known substances used in the cosmetic industry, e.g. propolis.

The present invention relates to skin regenerating cosmetic composition comprising, as active ingredient, an extract of the pod and/or grain of green peas obtained by extraction with water or with a mixture of water and a water miscible solvent; together with cosmetically acceptable vehicles and/or diluents.

The extract is prepared from the pod and/or grain of green peas with water or with a mixture of water and a water miscible organic solvent, preferably with the mixture of ethanol and water by steeping or boiling. After filtering the extract the solution of the active ingredient is formulated directly or after lyophilization with the usual cosmetic vehicles and/or diluents.

The composition of the invention shows a very favourable effect.

The face lotion (Example 7) was examined on 45 women aged from 20 to 65 years. The cream was applied after thorough cleaning twice a day, in the morning and evening. The treatment was continued for two weeks. The following types of face skin were examined: 35 slightly dry, 9 sensitive, dry, 1 very dry skin. The cream has been absorbed well during the treatment, the skin became smooth, velvety. During the treatment no allergic reaction, irritative dermatitis or hypersensitiveness were observed.

The body lotion (Example 9) was tested on 32 women

aged from 17 to 68 years. The composition was applied after thorough washing twice daily, in the morning and evening. The treatment was continued for two weeks. The following types of skin were examined: 2 normal sensitive, 4 dry sensitive, 18 dry and 8 normal skins. The composition has been absorbed well during each treatment, the skin became velvety, smooth, the skin tightening and dryness which occurred after washing (having a bath or shower) stopped and the skin was calmed and refreshed. No allergic reaction, irritative dermatitis or hypersensitiveness were observed.

The following non-limiting Examples show the compositions of the invention and the preparation of the active ingredient.

Example 1

Pods of green peas deprived of their grains were dried at room temperature in a manner usual for herbs, then crushed. 1 kg of the crushed substance was suspended in 4.00 litres of water and steeped in dry, cool place for 24 hours. After filtration the solution was boiled, then a 20 % by vol. solution was prepared with cosmetic Vaseline*oil. The solution was stored in dry, cool, dark place until use.

Example 2

Pods of green peas deprived of their grains were dried as in Example 1 then powdered. 4.5 litres of deionized water were added to 1 kg of the powdered substance. The mixture was boiled for 2 hours, the resulting solution was filtered and closed hermetically until use. It was stored in dark, cool, dry place.

Example 3

Pods of green peas deprived of their grains were dried as in Example 1 then powdered. 4.10 litres of 70 % by vol. of aqueous ethanol were added to 1 kg of the powdered substance. The substance was steeped for 72 hours, then the solution was filtered and after having been covered it was stored in dry, cool, dark place.

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Example 4

Pods of green peas deprived of their grains were dried as in Example 1 then powdered. 5 litres of deionized water were added to 1 kg of the powdered substance. The substance was steeped for 32 hours. After filtration the solution was boiled, then it was stored in dry, cool, dark place until use.

Example 5

Pods of green peas deprived of their grains which were obtained in the preserves industry were crushed, then diluted with water to 4-fold volume and steeped for 36 hours. After filtration the solution was boiled, then stored in dry, cool, dark place.

Example 6

1 kg of grain of green peas was ground and steeped in 5 litres of deionized water for 30 hours. After filtration the solution was boiled, then it was stored in dry, cool, dark place until use.

Example 7

1 kg of grain of green peas was ground and dried as in Example 1 then it was powdered. 4.5 litres of 70 % by vol. of ethanol were added to 1 kg of the powdered substance, then the substance was steeped for 36 hours, the solution was dried and lyophilized.

Example 8

4.0 litres of deionized water were added to 1 kg of dried and powdered grain of green peas, the mixture was boiled for 2 hours, the solution was filtered and stored in dry, cool, dark place until use.

Example 9

The wet mixture of grains and pods of green peas

(B)

obtained in the preserves industry was dried as in Example 1 then 1 kg of the dried mixture was steeped in 4.5 litres of deionized water for 36 hours. After filtration the solution was lyophilized.

Example 10

3 kg of grain of green peas and 1 kg of pod of green peas were ground together then the mixture was dried as in Example 1. 1 kg of the dried mixture was boiled in 5 litres of deionized water for 3 hours. After filtration the product was covered and stored in dark, cool, dry place.

Example 11

Skin regenerating body lotion

Components	% by weight
Extract of Example 2	18.00
cetyl alcohol	1.83
stearin	4.70
Vaseline* oil (cosmetic quality)	2.33
castor oil	1.83
sodium laurylsulfate	1.17
sorbitol	3.60
glycerol	6.00
Nipagine*	0.20
tocopherol acetate	0.05
perfume oil	0.10
deionized water	60.19

Example 12

Skin regenerating face lotion

Components	% by weight
Extract of Example 3	18.00
cetyl alcohol	1.50
stearin	4.50
vaseline oil (cosmetic quality)	2.50
castor oil	2.00

Vaseline*MD	0.80
sodium laurylsulfate	1.17
sorbitol	3.70
glycerol	6.00
Nipagine *	0.20
tocopherol acetate	0.05
perfume oil	0.10
deionized water	59.48

Example 13

Skin regenerating composition for hand treatment

Components	% by weight
Extract of Example 5	18.00
cetyl alcohol	6.40
stearin	2.80
Vaseline*MD	2.80
Vaseline*oil (cosmetic quality)	2.80
castor oil	0.30
glycerol monostearate	0.50
lanoline	3.00
sodium laurylsulfate	0.83
sorbitol	3.00
glycerol	4.73
propylene glycol	2.00
Nipagine*	0.20
tocopherol acetate	0.07
vitamin A	0.01
vitamin K-III	0.05
perfume oil	0.13
propolis	0.11
deionized water	52.27

Example 14

Skin regenerating and hydrating lotion for shower

Components	% by weight
Extract of Example 2	20.00

Hostapur*SAS (Hoechst AG)	20.0
Genapol AMS (Hoechst AG)	40.0
betain	10.0
Genapol PMS	2.0
maize oil	2.0
perfume substance	0.6
deionized water	5.4

Example 15

Skin regenerating and hydrating shampoo

Components	% by weight
Extract of Example 6	37.0
Genapol ZRO (Hoechst AG)	35.0
Genapol AMS (Hoechst AG)	10.0
betain	8.0
coco-fatty acid diethanolamide	2.0
sodium chloride	1.4
perfume substance	0.2
distilled water	6.4

Example 16

Skin regenerating and hydrating tonic

Components	% by weight
Extract of Example 3	28.00
retinoin acid	0.05
ethanol (96 %)	61.25
propylene glycol	10.00
Tween*20	0.50
perfume substance	0.20

Example 17

Skin regenerating and hydrating liquid soap

Components	% by weight
Lyophilisate of Example 9	3.7
Genapol TSM (Hoechst AG)	3.0

Genapol LRO (Hoechst AG)	35.0
Medilan KA (Hoechst AG)	8.0
sodium chloride	1.3
distilled water	48.8
perfume substance	0.2

Example 18

Skin regenerating and hydrating face cleaning emulsion

Components	% by weight
Extract of Example 8	35.0
Hostaphat*KL 340N (Hoechst AG)	2.0
Hostacerin*DGS (Hoechst AG)	4.0
Hostacerin*PN 73 (Hoechst AG)	0.6
paraffin oil	5.0
isopropyl palmitate	6.0
propylene glycol	3.0
distilled water	44.2
perfume substance	0.2

Example 19

Body powder

4.25 g of the lyophilisate of Example 9 were mixed with 95.5 g of talc and 0.25 g of menthol. The product was sterilized by UV radiation.

Example 20

Skin regenerating body lotion

The composition is the same as in Example 11 wherein the 18.00 % by weight extract of the active ingredient can be prepared according to any of Examples 1 to 10.

Example 21

Skin regenerating face lotion

The composition is the same as in Example 12 wherein

the 18.00 % by weight extract of the active ingredient can be prepared according to any of Examples 1 to 10.

Example 22

Skin regenerating composition for hand treatment

The composition is the same as in Example 13 wherein the 18.00 % by weight extract of the active ingredient can be prepared according to any of Examples 1 to 10.

* Registered trademark.

CLAIMS:

1. Skin regenerating cosmetic composition comprising, as active ingredient, an extract of the pod and/or grain of green peas obtained by extraction with water or with a mixture of water and a water miscible solvent; together with cosmetically acceptable vehicles and/or diluents.

2. Composition according to claim 1 comprising a said extract of the pod of green peas as active ingredient.

3. Composition according to claim 1 comprising a said extract of the grain of green peas as active ingredient.

4. Skin regenerating cosmetic composition substantially as any described and exemplified herein.

5. Process for the preparation of skin regenerating cosmetic composition characterized in that the pod and/or grain of green peas optionally after having been dried is/are crushed then extracted with water or with a mixture of water and a water miscible solvent, and after filtration the solution of the active ingredient thus obtained is admixed directly or after lyophilization with cosmetically acceptable vehicles and/or diluents.

6. A process according to claim 5 wherein said extraction is performed with a mixture of water and ethanol.

7. Process for the preparation of skin regenerating cosmetic composition substantially as any described and exemplified herein.