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(54) Title: COSMETIC FORMULATIONS

(57) Abstract: Topic of the invention is the use of fresh or dried yogurt in dermatological, cosmetic, cosmeceutic and pharmaceutical products, by making use of its emollient, siccitrizant and nourishing properties; due to lactic acid, essential fatty acids, enzymes, proteins, lipids, vitamins and minerals. Also the formulation contains besides yogurt, olive oil and almond oil, which support the barrier properties of the skin by supplying substances like, essential fatty acids and squalene, besides these, the formulation also contains Dexpanthenol as a siccitrizant.

DESCRIPTION

COSMETIC FORMULATIONS

5 **Technical Field**

This invention is about the use of fresh and dried yogurt formulations, by making use of its emollient, cicatrisant effects, in pharmaceutical, cosmeceutic and cosmetic products as an active ingredient or vehicle in; hair products, hand and body care products, body cleaning
10 products.

Prior Art

Yogurt has a prophylactic effect on many illnesses by strengthening the immune system. It is
15 known that lactic acid bacteria that are used in yogurt and yogurt production are preventive in; cancer, infections, gastro intestinal illnesses and asthma. Besides these properties, it acts as a source of proteins, lipids, vitamins and minerals. Yogurt cleans the skin, nourishes, moisturizes, balances the lipid quantity and the acid/alkaline ratio of the skin.

20 According to the EP 0 315 541 B1; the use of yogurt and kefir for cosmetical purposes is explained. In a powder formed cosmetical composition, which contains 50%-85% (weight %) lyophilised yogurt or kefir, has refreshing effect and contains at least one acidity receiver.

In patent EP 0 518 192 B1, a natural cosmetical agent used for skin or hair care
25 Is explained. The composition contains the following juices; parsley, cellery root and leaves, dandelion leaves, kiwi and beside these juices, it also contains, yogurt, olive oil and sea salt.

In the patent GB 2 037 160 a product is explained which by which the lipid is extracted from
30 "fat poor" lyophilised milk. The obtained product is rich in amino acids, which also at the same time contains yogurt's contents and the bacterial metabolites that are used in yogurt production, suitable for the creams which will be used cosmetically and pharmaceutically.

In WO 2006/076946 patent, a cleaning agent is explained which has an emollient effect and
35 which controls the skin humidity, containing a surfactant, a protein which is extracted from yogurt (in low concentrations like 0.5%) a plant extract and/or vitamins and provitamins.

Objective of Invention

The aim of this invention is to make use of yogurt due to its, cleaning, humidifying, emollient and sicatrizant effects originating from its chemical and biological composition, in dermatological, cosmetical, cosmeceutical and pharmaceutical, shampoos, creams, liquid soaps, shower gels, emulsions, and foams.

Description of the Invention

Topic of the invention is the use of fresh or dried yogurt in dermatological, cosmetic, cosmeceutic and pharmaceutical products, by making use of its emollient, sicatrizant and nourishing properties; due to lactic acid, essential fatty acids, enzymes, proteins, lipids, vitamins and minerals. Dry or fresh yogurt can be used as a vehicle or active ingredient in bath and shower gels, liquid soaps in concentrations between 1%-75% and also in topical emulsions, creams and foams between 1%-70% as a vehicle or active ingredient.

In addition, the formulations may, besides fresh and dried yogurts' contain, olive and almond oil, which support skin's barrier properties, supplying essential fatty acids and squalen, to the skin and hair, dexpanthenol which has sicatrizant effect, pantothenic acid (or dexpanthenol) which promotes healthy hair growth, and which also contains E and C vitamins.

The ingredients are used in the following concentrations; olive and almond oil 0,1%-15%, dexpanthenol 0,1%-10%, vitamin E 0,01%-5%, vitamin C 0,01%-10%, panthotenic acid 0,1%-10% (only in the shampoo form). Yogurt can be used fresh, spray dried or as the lyophilised form.

Dried or fresh yogurt , which are present in medical dermatological, cosmeceutical and pharmaceutical skin products, has sicatrizant and emollient properties and is used in amelioration of wounds, in burn treatment and as an emollient in dermatitis. At the same time due to its emollient and scatrizant effects, yogurt can be used in shampoos, liquid soaps, shower gels, alone or in an excipient, which can by itself regulate the skin flora, to dispell the dryness, to nourish, to balance the alkali/acid equilibrium and in supporting the barrier properties of the skin.

Different formulations are obtained which contain yogurt, almond oil, olive oil, dexpanthenol, vitamin E, vitamin C and panthotenic acid. In these formulations olive oil, almond oil are

used as excipients, dexpanthenol as a scatrizant , arlagard E or methylparaben as preservatives, sodium lauryl sulfate and alike as inorganic surfactants, antioxidants like citrid acid, vitamin C and vitamin E, sorbic acid, tetrasodium EDTA and alike, panthotenic acid as a sciatrizant and epithelizant, also contains lyzin hydrochloride, oats extract, cocamidopropil betain having skin nourishing effects. Formulations comprising the above mentioned substances are presented below.

Formulation Examples:

10 Shampoo:

The ingredients are listed below.

	Yogurt (fresh or dry)	20g
15	Hydroxypropylguar hydroxypropylammoniumchloride	0,3g
	Citric Acid	0,05g
	Tetrasodium EDTA	0,1g
	Methylparaben	0,3g
	Sodium PCA	1g
20	Arlagard E	0,6g
	Sodium Lauryl sulfate	25g
	TEA Cocoyl glutamate	8g
	Olive Oil	2g
	Almond Oil	2g
25	Vitamin E	0,1g
	Vitamin C	2g
	PEG-150 distearate	1g
	Laurilamide DEA	2g
	Lysine hydrochloride	0,05g
30	Pyroline	0,05g
	Sodium Chloride	0,8g
	Perfume	0,1g
	Panthotenic Acid	2g
	Water	32,55g

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Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperetaly up to 80°C. All are mixed together and homogenized. Cooled under agitation and perfume should be added at 30°C.

5 Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and panthotenic acid in between 0,1-10 grams.

10 This formulation can also be fromulated without using olive, almond oil and panthetonic acid, making use of yogurt as the active ingredient together with the rest of the ingredients.

Bath and Shower Gel:

15 The composition is given below.

	Yogurt (fresh or dry)	10g
	Methylcellulose	0,5g
	TEA laurile sulfate	35g
20	Oat (Avena sativa) Extract	2,5g
	Dexpanthenol	0,2g
	Hydrolized oat protein	2g
	Miristamid DEA	4g
	Vitamin E	1g
25	Vitamin C	2g
	Almond Oil	0,5g
	Olive Oil	0,1g
	Perfume	0,1-0,3g
	Water	41,9-42,1g

30

Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperetaly up to 80°C. All are mixed together and homogenized. Cooled under agitation and perfume should be added at 30°C.

Amount of the perfume can be adjusted in by taking away the part of the water that is added.

35

Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

- 5 This formulation can also be formulated without using olive, almond oil and panthetonic acid, making use of yogurt as the active ingredient together with the rest of the ingredients.

Liquid Soap:

10

The composition is given below.

	Yogurt (dried or fresh)	10g
	Sodium lauryl sulfate	20g
15	Cocoamidapropyl betain	14g
	Hydrolized milk protein	3g
	Olive oil	1g
	Almond Oil	1g
	Vitamin E	0,1g
20	Vitamin C	0,5g
	Dexpanthenol	1g
	Perfume	0,1-0,3g
	Water	49.1-49,3g

25

Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperetaly up to 80°C. All are mixed together and homogenized. Cooled under agitation and perfume should be added at 30°C.

- 30 Amount of the perfume can be adjusted in by taking away the part of the water that is added.

Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

35

This formulation can also be formulated without using olive, almond oil and panthetonic acid, making use of yogurt as the active ingredient together with the rest of the ingredients.

Besides, solid soap formulations can be made up by making use of the appropriate ingredients using yogurt in the same manner.

5 Sun Protection Formulations:

The composition is given below

	Yogurt (dry or fresh)	20g
10	Oktilmethoxycinnamat	7,5g
	Benzophenon –3	6g
	Oktyl salicylate	5g
	Cyclometicone	1g
	Olive Oil	6g
15	Almond Oil	6g
	Cetostearyl alcohol	2g
	Stearyl alcohol	1,5g
	Vitamin E	0,1g
	Vitamin C	1g
20	Dexpanthenol	0,5g
	EDTA	0,1g
	Propyleny glycole	5g
	Oktadodecyl neopentanoat	8g
	Arlargard E	0,6g
25	Methylparaben	0,3g
	Water	29,4g

Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperately up to 80°C. All are mixed together and homogenized.

30 Cooled under agitation.

Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

35

Anti-aging Cream:

The composition is given below

5	Yogurt (dry and fresh)	20g
	Urea	5g
	Olive Oil	5g
	Almond Oil	5g
	cetostearylalcohol	2g
10	Glycerinmonostearat	2g
	Tween 80	2g
	BHA	0,1g
	Arlagard	0,3g
	Vitamin E	0,1g
15	Vitamin C	2,0g
	Dexpanthenol	2.0g
	Water	54.5g

20 Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperately up to 80°C. All are mixed together and homogenized. Cooled under agitation, yogurt is added to water phase.

25 Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

Napkin dermatitis cream:

30 Substances in cream form formulations are given below.

	Yogurt (dry or fresh)	20g
	Vitamin C	2g
	Vitamin E	1g
35	Abil WE09	4g
	Olive Oil	4g
	Almond Oil	4g

	Dimethicone	2g
	Paraffin Liquid	2,677g
	Dexpanthenol	2g
	Arlagard E	0,6g
5	BHA	0,02g
	EDTA	0,1g
	Water	57,603g

10 Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperately up to 80°C. All are mixed together and homogenized. Cooled under agitation, yogurt is added to water phase.

15 Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

Moisturizer Cream:

20	Yogurt (fresh or dry)	20g
	Urea	10g
	Olive Oil	5g
	Cetostearylalcohol	2g
	Glycerinemonostearate	2g
25	Tween 80	2g
	BHA	0,1g
	Arlagard	0,3g
	Vitamin E	0,1g
	Vitamin C	2.0g
30	Dexpanthenol	2.0g
	Water	49,5g

35 Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperately up to 80°C. All are mixed together and homogenized. Cooled under agitation, yogurt is added to water phase.

Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

5 Shaving Foam:

	Yogurt (fresh and dry)	20g
	Vitamin C	2g
	Vitamin E	1g
10	Olive Oil	2g
	Almond Oil	2g
	Cetyl alcohol	1g
	Stearyl alcohol	0,5g
	Dexpanthenol	2g
15	Superpolistat	5g
	Polisorbat 60	0,25g
	Steareth 2	1g
	Steareth 20	1g
	Arlagard E	0,6g
20	Glycerine	5g
	BHT	0,02g
	EDTA	0,1g
	Propellant	3g
	Water	63,53g

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Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperetaly up to 80°C. All are mixed together and homogenized. Cooled under agitation, yogurt is added to water phase.

30 Yogurt concentration in the formulations can be changed in between 1-75g, olive and almond oil in 0,1-15g, vitamin E in 0,01-5g, vitamin C in 0,01-10g and dexpanthenol in between 0,1-10 grams.

After shave cream:

35

Both the above formulated napkin dermatitis and moisturizer cream formulations can be used as an after shave cream as well.

Lip Cream:

5 Both the above formulated napkin dermatitis and moisturizer cream formulations can be used as an after shave cream as well.

As given above different formulations can be made by using fresh or dried yogurt, olive and almond oil and dexpanthenol. In mentioned formulations yogurt is used directly/naturally or by spraying or lyyofilizing.

CLAIMS

1. The use of fresh and dry yogurt due to its hydrating emollient and nourishing effects in hair, hand and body cleaning products as a vehicle in cosmetic products or active ingredient in shampoos, bath and shower gels, liquid soaps, shaving foams and creams, sunscreens and such products which contain yogurt, lipids, surfactants, antioxidants, cicatrizants, nourishing substances, preservatives and water.
2. The formulation according to Claim 1 shampoo, in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing substance and one cicatrizant.
3. The formulation according to the Claim 2, besides the dry or fresh yogurt the vehicle substance that is used is olive oil, almond oil, TEA cocoly glutamate, PEG-150 distearate and lauramid DEA.
4. The formulation according to Claim 2, consistency enhancing agent derivative Hydroxypropylguar hydroxypropylammoniumchloride or similar guar derivatives, cellulose or methylcellulose, acrylic acid or one of its derivatives and sodium chloride.
5. The formulation according to Claim 2, uses tetrasodium EDTA, citric acid, vitamin C and E and sorbic acid as antioxidant.
6. The formulation according to Claim 2, the preservative substance is methylparaben, arlagard E and alike, sorbic acid and alike, propyl gallate and alike, hexamidin and derivatives, benzyl alcohol and alike.
7. The formulation according to Claim 2, the surfactant is sodium lauryl sulfate.
8. The formulation according to Claim 2, cicatrizant substance is lysin hydrochloride, pyrolin, panthetonic acid, dexpanthenol and alike.
9. The formulation according to Claim 2;
 - olive oil and almond oil separately between 0,1%-15%
 - vitamin C between 0,01%-15% and vitamin E's 0,01%-15%
 - panthetonic acid and dexpanthenol between 0,1%-10%.
10. The formulation according to Claim 1 bath and shower gel, in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing agent and one cicatrizant which is dexpanthenol.
11. The formulation according to Claim 10 vehicle substances are olive oil, almond oil and myristamide DEA.

12. The formulation according to Claim 10, consistency enhancing agent is methylcellulose, cellulose or one of the derivatives, acrylic acid and one of its derivatives.
13. The formulation according to Claim 10, that the antioxidant is vitamin C and vitamin E.
14. The formulation according to Claim 10, the surfactant is TEA lauryl sulfate.
15. The formulation according to Claim 10, nourishing agent is yogurt which is dry or fresh and besides oat extract and hydrolyzed oat protein.
16. The formulation according to Claim 10;
 - olive oil and almond oil separately in between 0,1%-15%
 - vitamin C 0,01%-10 and vitamin E 0,01%-5%
 - dexpanthenol 0,1%-10%
17. The formulation according to Claim 1 liquid soap, in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing agent and one sicatrizant as dexpanthenol or panthotenic acid.
18. The formulation according to Claim 17, the antioxidant is vitamin C and vitamin E.
19. The formulation according to Claim 17, the surfactant is sodium lauryl sulfate.
20. The formulation according to Claim 17, nourishing agent is cocamidopropyl betain and hydrolyzed milk protein besides dry or fresh yogurt.
21. The formulation according to Claim 10;
 - olive oil and almond oil separately in between 0,1%-15%
 - vitamin C 0,01% - 10 and vitamin E 0,01% - 5%
 - dexpanthenol weights 0,1%-10%
22. The formulation according to Claim 2,10 and 17 the formulations should be prepared as follows; Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated separately up to 80°C. All are mixed together and homogenized. Cooled under agitation
23. The formulation according to Claim 1, sunscreen cream in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing agent and one sicatrizant as dexpanthenol or panthotenic acid.
24. The formulation according to Claim 23, vehicle substances are olive oil, almond oil, cyclomethicone, cetostrearyl alcohol, stearyl alcohol, propylene glycole and oktyldodecyl nepoentonat besides dry or fresh yogurt.
25. The formulation according to Claim 23, antioxidant is vitamin C, vitamin E, and EDTA.

26. The formulation according to Claim 23, preservative is arlagard E and derivatives, methylparabene and similar paraben derivatives, sorbic acid and alike, propylgallate and alike, hexamidin and derivatives, benzyl alcohol and alike.
27. The formulation according to Claim 23, sunscreen agents are octylmethoxycinnamate, benzophenone-3 and octylsalisilate.
28. The formulation according to Claim 10;
- olive oil and almond oil seperately in between 0,1%-15%
 - vitamin C 0,01%-10 and vitamin E 0,01%-5%
 - dexpanthenol 0,1%-10%
29. The formulation according to Claim 1, anti aging cream in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing agent and one sicatrizant as dexpanthenol or panthotenic acid.
30. The formulation according to Claim 29, vehicle substance is olive oil, almond oil, cetostearyl alcohol and glycerine monostearat.
31. The formulation to Claim 29, the surfactant is tween 80.
32. The formulation according to Claim 29, antioxydant is BHA, vitamin C and vitamin E.
33. The formulation according to Claim 29, preservative is arlagard E.
34. The formulation according to Claim 29;
- olive oil and almond oil between 0,1%-15%
 - vitamin C 0,01%-10 and vitamin E 0,01%-5%
 - dexpanthenol 0,1%-10%
35. The formulation according to Claim 29, the anti aging cream contains 5% urea and moisturizing cream 10% urea.
36. The formulation according to Claim 1, napkin dermatitis in addition to yogurt which is dry or fresh, at least one vehicle substance, one consistency enhancing agent, one antioxidant, preservative, surfactant and at least one nourishing agent and one sicatrizant as dexpanthenol or panthotenic acid.
37. The formulation according to Claim 36, vehicle substance is olive oil, almond oil, dimethicone and liquid paraffin.
38. The formulation according to Claim 36, surfactant is AbilWE09.,
39. The formulation according to Claim 36, antioxydant is EDTA, vitamin C and vitamin E.
40. The formulation according to Claim 36, the preservative is arlagard E and derivatives, methylparaben and similar paraben derivatices, and other paraben

derivatives, sorbic acid and alike, propyl gallat and alike, hexamidin and derivatives, benzyl alcohol and alike.

41. The formulation according to Claim 36;
 - olive oil and almond oil between 0,1%-15%
 - vitamin C 0,01%-10 and vitamin E 0,01%-5%
 - dexpanthenol 0,1%-10%
42. The formulation according to Claim 29 and 36, can also be used as aftershave cream and lip cream.
43. The formulation according to Claim 1, after shave cream, at least one surfactant, one antioxydant , one preservative, propellant and as sicatrizant dexpanthenol or panthotenic acid.
44. The formulation according to Claim 43, vehicle substance is olive oil, almond oil, cetyl alcohol, stearyl alcohol, superpolistat and glycerine.
45. The formulation according to Claim 43 surfactant is polisorbat 60, steareth 2, and steareth 20.
46. The formulation according to Claim 43, antioxydant is vitamin C and Vitamin E, BHT and EDTA.
47. The formulation according to Claim 43, preservative is arlagard E and derivatives, methylparaben and similar paraben derivatives, other paraben derivatives, sorbic acid and alike, propyl gallate and alike, hexamidin and derivatives, benzyl alcohol and alike.
48. The formulation according to Claim 43;
 - olive oil and almond oil between 0,1%-15%
 - vitamin C 0,01%-10 and vitamin E 0,01%-5%
 - dexpanthenol 0,1%-10%
49. The formulation according to Claim 22,29,36 and 43, Water soluble ingredients are dissolved in water and are heated up to 80 degrees. Oil soluble parts are heated seperetaly up to 80°C. All are mixed together and homogenized. Cooled under agitation, yogurt is added to water phase.
50. The formulation according tot Claim 43 and 49, propellant should be added to the shaving foam.
51. The formulation according to Claim 1, is to be applied topically.

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K8/89 A61Q19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Yogurtene - INCI name: Yoghurt Powder" 20000601, 1 June 2000 (2000-06-01), pages 1-15, XP002994130 the whole document	1-51
X	WO 2006/052121 A (N. QUINTANA CHAVEZ) 18 May 2006 (2006-05-18) claims; examples	1-51
X	EP 1 537 847 A (KPSS KAO GMBH) 8 June 2005 (2005-06-08) claims; examples 1-4,8	1-51
P,X	WO 2007/110589 A (QUEST INTERNATIONAL SERVICES ET AL.) 4 October 2007 (2007-10-04) page 4, lines 7-12; claims; examples -/--	1-51

Further documents are listed in the continuation of Box C.

See patent family annex.

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	EP 0 315 541 A (OREAL) 10 May 1989 (1989-05-10) cited in the application claims	1-51
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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