



Formulation Guide Quillaja

Last update by PERA INGREDIENTS

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Liquid Make Up

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Water ³	Water (Aqua)	55.89
	Versene Na2 ⁴	Disodium EDTA	0.02
	Andean Q Ultra¹ (20% Solution)	Quillaja Saponaria Bark Extract	1.00
B	Supra H ¹⁵	Talc	3.54
	TiO2 # 3328 ⁵	Titanium Dioxide	7.39
	Unipure LC 182 ⁶	Iron Oxide (CI	1.68
	Unipure LC 381 ⁶	Iron Oxide (CI	0.41
	Unipure LC 989 ⁶	Iron Oxide (CI	0.19
	Ganzpearl GM-0600 ⁷	Polymethyl Methacrylate	1.20
	MT-500 TiO2 B ⁷	Titanium Dioxide (micronized)	2.36
C	1,3 Butylene Glycol ⁸	Butylene Glycol	5.60
	CMC 7MF ⁹	Cellulose Gum	0.30
	Veegum Regular ¹⁰	Magnesium Aluminium Silicate	1.20
	Vanzan NF ¹⁰	Xanthan Gum	0.15
D	Flora Mac ¹¹	Macadamia Integrifolia Seed Oil	6.00
	Jojoba Esters 15 ¹¹	Jojoba Esters	3.00
	Copherol 1250 ¹²	Tocopheryl Acetate	0.10
	Emersol 874 ¹²	Isostearic Acid	1.90
	Lexemul GDL ¹⁴	Glyceryl Dilaurate	1.90
	Silk Flo 364 ¹³	Hydrogenated Polydecene	3.00
	Emersol 7036 ¹²	Stearic Acid	1.80
	Brij 721 ¹⁶	Steareth-21	0.30
	Brij 72 ¹⁶	Steareth-2	0.30
E	Trolamine 99 ⁴	Triethanolamine	0.47
	Microcare MTG ²	Caprylyl Glycol (and) Methylsiothiazolinone	0.30
		Total	100.00

Procedure

In an appropriate vessel, weigh or meter water.

With moderate propeller agitation (PA), add EDTA & Quillaja, Mix 5 minutes. Add dries of Phase B to Phase A with moderate PA.

After 5 minutes, switch to high speed, high shear Homomixer agitation, and mix for 20 to 30 minutes (or even less time due to excellent wetting/ dispersing properties of Quillaja).

Begin heating to 70°C. Switch to PA. Add gums of Phase C to BG of Phase C, and mix until gums are wetted.

Add Phase C to Phase AB at 40-45°C with moderate PA. Continue heating to 70-75°C with PA.

In a separate vessel, combine ingredients of Phase D and heat to 70-75°C with moderate PA.

With both Phases at 75°C, add Phase D slowly to Phase ABC with moderate PA.

After 10 minutes of PA, homomix for 10 minutes, and then return to PA. Begin cooling batch; at 70°C, add Phase E and continue mixing with moderate PA to 30°C.

Sample batch and submit to QC for specification testing.

All Natural Cleansing Wipe

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	98.72
	Andean Q Ultra	Quillaja Saponaria Extract	0.50
	Campo Plantservative Wsr	Lonicera Caprifolium Flower extract and	0.50
	Citric Acid 50%	Lonicera Japonica Flower extract Citric Acid	0.28

Procedure

Add ingredients in Part A one by one into a vessel and mix until uniform.

Alcohol Free Face Toner

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	97.22
	Andean Q Ultra	Quillaja Saponaria Extract	0.50
	Campo Plantservative Wsr	Caprifolium Flower extract and	0.50
	Glycerin 99.7% USP	Lonicera Japonica Flower extract Glycerin	1.00
	Liquid Melon Panarom	Cucumis Melo (Melon) Fruit Extract	0.50
B	Citric Acid 50%	Citric acid	0.28

Procedure

Add water to mixing vessel. Add ingredients in Part A in order shown and mix until uniform.

Add ingredients in Part B in increments to achieve specified pH.

All Natural Shampoo & Body Wash

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	85.02
	Plantaren 2000 N UP	Cocamidopropyl betaine	10.00
	Andean Q Ultra	Quillaja Saponaria Extract	1.00
	Natrosol 250 HHR CS	Hydroxyethylcellulose	0.80
	Campo Plantservative Wsr	Lonicera Caprifolium Flower extract and Lonicera Japonica Flower extract	0.50
B	Glycerin 99.7% USP	Glycerin	0.90
	Barsolve NS-100	Polyglyceryl-10 Heptahydroxystearate	0.90
C	Orange/Lavender Essential Oil	CITRUS SINENSIS peel oil and lavandula angustifolia (lavender) oil	0.30
D	Citric Acid 50%	Citric acid	0.58

Procedure

Add water to mixing vessel. Slowly add Natrosol to water. Mix until Natrosol is well dispersed. Continue mixing while adding Plantservative. Mix batch until smooth gel is formed insuring batch is lump free. Continue mixing while adding the remaining ingredients in Part A in order shown. Premix Part B and heat to 55°C. Mix until uniform. Add Part C to Part B. Mix until clear and uniform. Add Part B/C to Part A. Mix until uniform. Add Citric Acid in increments to achieve specified pH. Mix until uniform.

Gentle Hand and Face Wash

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	93.80
B	Glycerin 99.7% USP Veg.	Glycerin	2.00
	Konjac Mannan Gel Powder	Mannan	0.75
C	Andean Q Ultra	Quillaja Saponaria Extract	2.00
	Campo Plantservative Wsr	Lonicera Caprifolium Flower extract and Lonicera Japonica Flower extract	0.50
D	Glycerin 99.7% USP Veg.	Glycerin	0.30
	Barsolve NS-100	Polyglyceryl-10 Heptahydroxystearate	0.30
E	Orange Oil 10 fold	CITRUS SINENSIS peel oil	0.10
F	Citric Acid 50%	Citric Acid	0.25

Procedure

Add water to mixing vessel. Premix ingredients in Part B. Add Part B to Part A. Mix until lump free gel is formed. Continue mixing while adding ingredients in Part C in the order given and mix until uniform. Premix ingredients in Part D and heat to 55°C. Add Part E to Part D. Mix until clear and uniform. Add Parts D/E to batch and mix until uniform. Add Citric Acid in increments to achieve specified pH.

All Natural Anti Bacterial Hand Sanitizer (formulation is intended for ingredient sampling)

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	95.99
	Andean Q Ultra	Quillaja Saponaria Extract	0.50
	Campo Plantservative Wsr	Lonicera Caprifolium Flower extract and Lonicera Japonica Flower extract	0.50
B	Glycerin 99.7% USP	Glycerin	2.00
	Konjac Mannan Gel Powder	Mannan	0.50
C	Melafresh T96	Melaleuca alternifolia (tea tree) leaf oil	0.20
	Peppermint 0122101	Mentha Piperita (Peppermint) Oil	0.05
	Idaho Quality Rectified		
D	Citric Acid 50%	Citric acid	0.26

Procedure

Add water to mixing vessel. Add remaining ingredients in Part A in order shown. Premix ingredients in Part B and add to Part A. Mix until lump free gel forms. Continue mixing while adding the ingredients in Part C. Mix until Uniform. Add Citric Acid in increments to achieve specified pH.

Organic Normalizing Shampoo

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	64.59
A1	Hyaluronic Acid BT	Sodium Hyaluronate	0.05
A2	Vegetable Glycerin	Glycerin	3.00
	Glutange Grano	Hydrolyzed Wheat Proteins	0.20
	Rosmarin Glyceric extract	Rosmarinus Officinalis Extract + Glycerine	0.50
	Natural Extract AP	Betaine	1.00
A3	Viscarin GP 209	Chondrus Crispus Extract	1.20
B	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	8.00 (=2% Extract)
C	Plantacare 818 UP	Coco Glucoside	18.00
D	Phenoxyethanol	Phenoxyethanol	0.50
	Benzoic Acid	Benzoic Acid	0.20
	Plantacare 818 UP	Coco Glucoside	4.00
E	Citric Acid	Citric Acid	0.26
			100.00

Production Method

Preliminary Phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase D: Mix the ingredients until clear solution; if necessary heat the phase to 40°C.

Addition scheme

- 1) In the main mixer, add A1 to water while mixing with blades; then homogenize with turbine and blades under vacuum for 10'.
- 2) Add ingredients A2 and mix, until solution, after each addition.
- 3) Add A3, homogenize with turbine and blades under vacuum for 10', then heat the phase to 65°C under vacuum. At this temperature, homogenize with turbine and blades under vacuum for 10'. Sample and check homogeneity.
- 4) Stop heating and add C, then mix for 5' while starting to cool to room temperature.
- 5) Add phase D and E while mixing with blades under vacuum for 5' after each addition. Take a sample for analytical controls.

Anti Dandruff-Shampoo

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Protelan LS 9011 (30%)	Sodium Lauroyl Sarcosinate	5.00
	Rewomid IPP 240	Cocamide Mipa	1.00
	Octopirox	Piroctone Olamine	0.20
B	Plantacare 818	Coco Glucoside	18.00
	Demin. Water	Aqua	51.00
	Inositol	Inositol	1.00
	Natrlquest E30	Trisodiummethylenediamine Disuccinate	0.20
	Styleze W10	Polyquaternium-55	0.40
	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	8.00 (= 2% Extract)
	Setacin 103 SP (30%)	Disodium Laureth Sulfosuccinate	8.00
C	Rewoderm LI S 80	PEG-200 Hydrogenated Glyceryl Palmate,	4.00
	Oxetal VD 92 (80%)	PEG-7 Glyceryl Cocoate	
	Parfum	PEG-90 Glyceryl Isostearate	1.00
D	Nipaguard SMG	Parfum	0.60
D	Nipaguard SMG	Sodium Hydroxymethylglycinate	0.80
E	Lactic Acid	Lactic Acid	0.80
			100.00

Production Method

Preliminary phase

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase C: Mix the ingredients until clear solution;

Addition scheme

- 1) In the main mixer, add ingredients A and heat the phase to 65°C until completely melt.
- 2) Stop heating and add, slowly and in sequence, ingredients B while mixing with blades for 10' after each addition. Check the homogeneity after each addition.
- 3) Add Phase C and mix with blades for 5'.
- 4) Add, in sequence, ingredients D and E and mix for 5' after each addition.
- 5) Cool to room temperature. Take a sample for analytical controls.

Conditioner

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	74.10
	Inositolo	Inositol	0.50
	Natural Extract AP	Betaine	0.50
	Maltitolo	Maltitol	4.00
A1	Salcare SC 92	Polyquaternium-32, Paraffinum liquidum, Aqua, PPG-1 Trideceth-6	3.00
B	Nexbase 2004 FG	Hydrogenated Polydecene	2.50
	Fancol VB	Limnanthes Alba Seed Oil, Butyrospermum Parkii Butter	1.50
	DUB 1215	C12-15 Alkylbenzoate	2.00
	BHA	BHA	0.10
	Brij 58	Ceteth-20	1.00
	Lanette O	Cetearyl Alcohol	1.50
	Phenoxyethanol	Phenoxyethanol	0.30
C	BC 2262	Phenyl Trimethicone, Silicone, Quaternium-15	0.25
D	Si-Tec Ame 6057	Amodimethicone, Cetrimonium Chloride	0.25
E	Parfum	Parfum	0.20
F	Demin. Water	Aqua	3.00
	Germall 115	Imidazolidinyl Urea	0.20
	NatrIquest E30	Trisodiummethylenediamine Disuccinate	0.10
G	Tocopherol	Tocopherol	1.00
	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	4.00 (=1% Extract)
			100.00

Production Method

Preliminary phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase F: Mix the ingredients in water until clear solution;

Phase G: Mix the ingredients until homogeneity;

Addition scheme

- 1) In the main mixer, add A ingredients and mix until clear solution. Add A1 while mixing with blades, under vacuum; then homogenize with both turbine and blades under vacuum for 10'. Heat to 75°C under vacuum. Sample and check homogeneity.
- 2) In a side melting vessel add ingredients B and heat to 75°C until complete melt.
- 3) Add slowly Phase B to Phase(A+A1) while homogenizing with turbine and blades under vacuum. Keep such conditions for 5-10'.
- 4) Cool to 40°C and add ingredients C and D, while homogenizing for 5' under vacuum after each addition.
- 5) Cool to 35°C then add ingredients E and phase F, while homogenizing for 5' under vacuum after each addition.
- 6) Cool to room temperature, add phase G and mix with blades for 5' under vacuum. Take a sample for analytical controls.

Organic Cleansing Gel x Impure Skin

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	56.55
	Xylisorb 300	Xylitol	1.00
	Vegetable Glycerin	Glycerin	3.00
	Melissa (Water Demin.)	Melissa Officinalis Distillate	2.00
	Hamamelis (Water Demin.)	Hamamelis Virginiana Distillate	2.00
	Rosemary Glycerine Extract	Rosmarinus Officinalis Extract+Glycerine	1.00
B	Viscarin PC 389	Chondrus Crispus Extract	1.00
C	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	8.00 (=2% Extract)
D	Plantacare 818 UP	Coco Glucoside	20.00
E	Ethanol (from Organic Wheat)	Ethanol	5.00
	Phenoxyethanol	Phenoxyethanol	0.40
	Lavanda Hxbrida Essential Oil	Lavandula Hybrida Oil	0.05
F	Lactic Acid	Lactic Acid	0.30
			100.00

Production Method

Preliminary phase

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase E: Mix the ingredients in a stainless steel container until clear solution;

Addition scheme

- 1) In the main mixer, add A phase ingredients and mix until a clear solution is obtained. Add B, homogenize with turbine and blades under vacuum for 10', then heat the phase to 65°C under vacuum. At this temperature, homogenize with turbine and blades under vacuum for 10'. Sample and check homogeneity.
- 2) Stop heating and add ingredient C, then mix for 5' while starting to cool to room temperature.
- 3) Add D and phase E while mixing with blades under vacuum for 5' after each addition.
- 4) Add F and mix with blades for 5' under vacuum. Take a sample for analytical controls.

Cleansing Fluid for Atopic Skin

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	72.25
A1	Comixan ST/HV	Xanthan Gum	0.50
A2	Veegum HV	Magnesium Aluminum Silicate	1.30
A3	Aristoflex AVC	Ammonium/Acryloyldimethyltaurate/ VP/Copolymer	0.50
A4	Fancol VB	Limnathes Alba Seed Oil, Butyrospermum Parkii Butter	1.00
B	Panthenolo	Panthenol	0.50
	Natural Extract AP	Betaine	2.00
	Allantoin	Allantoin	0.10
	Glycerin	Glycerin	2.00
	Green Clay	Solum Fullonum	2.00
	Oryza Sativa Starch	Oryza Sativa Starch	2.00
	Hombitan	Titanium Dioxide	0.50
	Granlux AOX GL	Picea Alba Extract, Glycerin	1.00
C	Sericin	Sericin	0.50
	Demin. Water	Aqua	5.00
D	Covafresh	Menthyl Lactate	0.10
	Phenylethyl Alcohol	Phenylethyl Alcohol	0.50
	Asansa DS 912	Sodium Silicaluminate	5.00
	Biovert Substrate	Glucose	1.00
	Biovert Emzyme	Lactoperoxidase, Glucose Oxidase	0.05
	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	2.00 (=0.5% Extract)
	Lactic Acid	Lactic Acid	0.20
			100.00

Production Method

Preliminary phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase C: Mix the ingredients until homogeneity;

Addition scheme

- 1) In main mixer add A1 to water and homogenize for 5'; then heat the phase to 40°C, then homogenize for 5'.
- 2) Add A2 and heat to 80°C while homogenizing with turbine and blades. Sample and check homogeneity.
- 3) Add A3 and homogenize for 10'. Then add A4 and homogenize for 5' while starting to cool to room temperature. Check homogeneity.
- 4) Add, in sequence, ingredients B and homogenize with turbine and blades under vacuum for 5' after each addition.
- 5) Add phase C and homogenize with turbine and blades under vacuum for 5'.
- 6) Add, in sequence, ingredients D and mix with blades for 5' after each addition. Take a sample for analytical controls.

Anti-plaque Toothpaste

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	23.59
	Viscarin GP 209	Chondrus Crispus Extract	1.00
A1	Deionized Water	Aqua	5.00
	Sodium Saccharin	Sodium Saccharin	0.25
	Sodium Monofluorophosphate	Sodium Monofluorophosphate	0.76
	Sorbitol (Sol. 70%)	Sorbitol	25.00
	PEG-8	PEG-8	4.00
B	Tetrasodium Pyrophosphate	Tetrasodium Pyrophosphate	1.75
	Tetrapotassium Pyrophosphate	Tetrapotassium Pyrophosphate	1.75
	Tixosil 73	Hydrated Silica	7.00
	Tixosil 43	Hydrated Silica	7.00
	Aerosil 200	Silica	1.00
	Sodium Bicarbonate	Sodium Bicarbonate	12.00
C	Sorbitol (Sol. 70%)	Sorbitol	2.00
	A310 Tudor Aspen	Titanium Dioxide	0.50
D	Demin. Water	Aqua	4.00
	Andean QD Ultra Powder	Quillaja Saponaria Extract	2.00
E	Aroma	Aroma	1.20
	Irgasan DP 300	Triclosan	0.20
			100.00

Production Method

Preliminary phases

Phase C: Mix the ingredients until homogeneous suspension;

Phase D: Mix the ingredients until clear solution under cupboard; excessive foam formation must be avoided.

Phase E: Mix the ingredients until clear solution;

Addition scheme

1) In main mixer, add Viscarin PC 209 to water and homogenize with turbine and blades, under vacuum, for 10', then heat the phase to 65°C, always under vacuum. At this temperature, homogenize with turbine and blades under vacuum for 10'. Sample and check homogeneity.

2) In a side mixer add ingredients A1, mixing until clear solution after each addition.

3) Add phase A1 to phase A and homogenize with turbine and blades for 10' while starting to cool to room temperature.

4) Add, in sequence, ingredients B and homogenize with turbine and blades for 10' after each addition. Check homogeneity of the phase after each addition.

5) Add, in sequence, phases C, D and E while mixing with blades under vacuum for 5' after each addition. Take a sample for analytical controls.

Gum-Mild Toothpaste

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	30.09
	Sodium Saccharin	Sodium Saccharin	0.25
	Sodium Monofluorophosphate	Sodium Monofluorophosphate	0.76
	Sorbitol (Sol. 70%)	Sorbitol	28.00
	PEG-8	PEG-8	4.00
A1	Viscarin GP 389	Chondrus Crispus Extract	0.50
B	Calcio Fosfato Idrato	Dicalcium Phosphate	3.00
C	Deionized Water	Aqua	3.00
	A310 Tudor Aspen	Titanium Dioxide	1.00
D	Tixosil 73	Hydrated Silica	8.00
	Tixosil 43	Hydrated Silica	10.00
	Aerosil 200	Silica	2.00
E	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	8.00 (=2% Extract)
F	Irgasan DP 300	Triclosan	0.20
	Aroma	Aroma	1.20
			100.00

Production Method

Preliminary phases

Phase C: Mix the ingredients until homogeneity;

Phase E: Dissolve the powder into water until clear solution, under cupboard; excessive foam formation must be avoided.

Phase F: Mix the ingredients until clear solution;

Addition scheme

- 1) In the main mixer add ingredients A and mix with blades until clear solution. Then add A1 and homogenize with turbine and blades under vacuum for 10'. Successively heat the phase to 65°C under vacuum. At this temperature, homogenize with turbine and blades under vacuum for 10'. Sample and check homogeneity.
- 2) Add, in sequence, B and phase C and homogenize with turbine and blades for 10' after each addition.
- 3) Add, in sequence, ingredients D and homogenize with turbine and blades for 10' after each addition. Check homogeneity of the mix after each addition.
- 4) Add, in sequence, E and phase F while mixing with blades under vacuum for 5' after each addition. Sample product for analytical controls.

Mouthwash for Irritated Gums

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	Deionized Water	Aqua	8.20
	Glycerin	Glycerin	10.00
	Sodium Saccharin	Sodium Saccharin	0.02
	Sodium Benzoate	Sodium Benzoate	0.50
	Sodium Fluoride	Sodium Fluoride	0.23
	Maltitol	Maltitol	8.00
	Sorbitol (Sol. 70%)	Sorbitol	50.00
A1	Viscarin GP 209	Chondrus Crispus Extract	0.35
B	Tixosil 43	Hydrated Silica	8.00
C	Lactic Acid	Lactic Acid	0.10
D	Andean QD Ultra (25% Aq. Sol.)	Quillaja Saponaria Extract+Aqua	8.00 (=2% Extract)
E	Tween 60	Polysorbate 60	0.60
	Aroma	Aroma	1.00
	Ethanol	Ethanol	5.00
			100.00

Production Method

Preliminary phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase E: Mix the ingredients until clear solution;

Addition scheme

1) Add ingredients A in the main mixer and mix until clear solution after each addition. Then, add A1 and homogenize with turbine and blades under vacuum for 10', then heat the phase to 65°C under vacuum. At this temperature, homogenize with turbine and blades under vacuum for 10'. Sample and check homogeneity.

2) Add B and homogenize for 10'. Check homogeneity. Cool down to 35-40°C.

3) Add, in sequence, C, D and phase E and mix with blades under vacuum for 5' after each addition. Cool to RT. Take a sample for analytical controls.

Personal Hygiene Cleanser

Phase	Ingredients (Trade Name)	Ingredients (Trade Name)	% w/w
A	DEIONIZED WATER	AQUA	32.06
	LACTIC ACID (80%)	LACTIC ACID	0.80
	L-ARGININE	ARGININE	0.90
	ALLANTOIN	ALLANTOIN	0.09
	BETAINE	BETAINE	1.80
	SORBITOLO LGK (70%)	SORBITOL	9.00
	XYLISORB 300	XYLITOL	0.40
A1	COMIXAN ST/HV	XANTHAN GUM	0.40
A2	ARISTOFLEX AVC	AMMONIUM ACRYLOYLDIMETHYLTAURATE / VP COPOLYMER	0.30
B	TOCOPHERYL ACETATE	TOCOPHERYL ACETATE	1.80
	SAGE GLYCOLIC EXTRACT	SALVIA OFFICINALIS EXTRACT + PROPYLENE GLYCOL	1.00
	PHENOXYETHANOL	PHENOXYETHANOL	0.80
	PHENYLETHYL ALCOHOL	PHENETHYL ALCOHOL	0.10
C	OXINEX ST LIQUID	DIETHYLHEXYL SYRINGYLIDENEMALONATE	0.10
D	DEIONIZED WATER	AQUA	40.00
	VEEGUM HV	SODIUM ALUMINUM SILICATE	2.00
E	DEIONIZED WATER	AQUA	2.00
	SODIUM BENZOATE	SODIUM BENZOATE	0.25
	NATRLQUEST E 30	TRISODIUMMETHYLENEDIAMINE DISUCCINATE	0.20
	ANDEAN QD ULTRA (25%Aq. Sol)	QUILLAJA SAPONARIA EXTRACT + AQUA	8.00 (= 2% Extract)
			102.00

Production Method

Preliminary phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase B: Mix the ingredients until clear solution;

Phase D: Add Veegum HV to water and heat to 80°C while homogenizing with turbine and blades. At this temperature homogenize for 10’ and then start to cool to room temperature while mixing with blades.

Phase E: Mix the ingredients until clear solution;

Addition scheme

- 1) In main mixer add ingredients A and mix until clear solution after each addition. Then add A1 and homogenize for 5’; then heat the phase to 40°C and at this temperature homogenize the phase for 5’.
- 2) Add A2 and homogenize for 10’. Check homogeneity.
- 3) Add phase B and homogenize with turbine and blades under vacuum for 5’.
- 4) Add C and homogenize with turbine and blades under vacuum for 5’.
- 5) Add phase D and homogenize with turbine and blades under vacuum for 5’.
- 6) Add phase E and mix with blades for 5’. Take a sample for analytical controls.

Cleansing Milk

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	DEIONIZED WATER	AQUA	58.65
	GLYCERIN	GLYCERIN	4.00
	NATRLQUEST E30	TRISODIUM METHYLENEDIAMINE DISUCCINATE	0.30
	ALLANTOIN	ALLANTOIN	0.20
	NATURAL EXTRACT AP	BETAINE	1.00
	ACIDO CITRICO	CITRIC ACID	1.10
	L – ARGININE BASE	ARGININE	2.20
A1	COMIXAN ST/HV	XANTHAN GUM	0.60
B	NEXBASE 2004 FG	HYDROGENATED POLYDECENE	9.00
	FANCOL VB	LIMNANTHES ALBA, BUTYROSPERMUM PARKII	9.00
	OXYNEX ST LIQUID	DIETHYLHEXYL SYRINGYLIDENEMALONATE	0.10
	VITAMINE E ACETATE	TOCOPHERYL ACETATE	0.30
	LANETTE O	CETEARYL ALCOHOL	0.50
	ZANTHALENE 20% AQ SOLUTION	ZANTHOXYLUM ALATUM FRUIT EXTRACT +AQUA	1.00
	FENOSSETANOLO	PHENOXYETHANOL	0.80
	IRGASAN DP 300	TRICLOSAN	0.25
	BRIJ 72	STEARETH 2	2.00
	BRIJ 721	STEARETH 21	2.00
C	ANDEAN QD ULTRA (25% Aq. Sol)	QUILLAJA SAPONARIA EXTRACT + AQUA	4.00 (= 1% Extract)
D	DEIONIZED WATER	AQUA	2.00
	SAGE GLYCOLIC EXTRACT	SALVIA OFFICINALIS EXTRACT + PROPYLENE GLYCOL	0.50
	GERMALL II	DIAZOLIDINYL UREA	0.25
F	PARFUM	PARFUM	0.25
			100.00

Production Method

Preliminary phases

Prepare a 25% solution of Andean QD Ultra in deionised water under cupboard

Phase D: Mix the ingredients until clear solution;

Addition scheme

- 1) In the main mixer, add ingredients A and mix until clear solution. Add A1 and homogenize for 5'; then heat to 40°C. At this temperature homogenize the phase for 5'. Then, heat the phase to 75°C while mixing with blades.
- 2) In a side mixer add ingredients B and heat to 75°C until complete melting.
- 3) Add Phase B to Phase(A+A1) while homogenizing with turbine and blades under vacuum. Keep such conditions for 5-10'.
- 4) Cool to 40°C and add, in sequence, C and phase D. Homogenize 5' under vacuum after each addition.
- 5) Cool to room temperature, then add F and mix with blades for 5' under vacuum. Take a sample for analytical controls.

Organic Face Purifying Lotion

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	EAU	AQUA/WATER	73,3
	PRODHYBIO EAG BLEUET	AQUA/WATER	15
		GLYCERIN	
		CENTAUREA CYANUS FLOWER	
	PRODHYDERM O3 CE	AQUA/WATER	0,5
B	EAU	AQUA/WATER	10
	QUILLAJA SAPONARIA BIO	QUILLAJA SAPONARIA EXTRACT	0,2
C	ACIDE DEHYDROACETIQUE	DEHYDROXYACETIC ACID	1
	ALCOOL BENZYLIQUE	BENZYLIC ALCOHOL	

- 1) Prepare A
- 2) Add B under stirring
- 3) Add C under stirring

Organic Face Cream

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	EAU	AQUA/WATER	9,6
	PRODHYBIO EF	AQUA/WATER	19
	PRODHYCREME CE	GLYCERYL STEARATE SE	14
		CAPRYLIC/CAPRIC TRIGLYCERIDE	
		HYDROGENATED COCONUT OIL	
		CETYL ALCOHOL	
		STEARYL ALCOHOL	
		DICAPRYLRL CARBONATE	
		SORBITAN STEARATE	
B	HUILE JOJOBA BIO	SIMMONDSIA CHINENSIS OIL	3
	PRODHYSOFT TCM	CAPRYLIC/CAPRIC TRIGLYCERIDE	10
	EAU	AQUA/WATER	25
C	PRODHYGEL XT	XANTHAN GUM	0,4
	EAU	AQUA/WATER	15
	QUILLAJA SAPONARIA BIO	QUILLAJA SAPONARIA EXTRACT	0,4
	PRODHYDERM CONCOMBRE CE	AQUA/WATER	0,8
		GLYCERIN	
		CUCUMIS SATIVUS FRUIT EXTRACT	
	PRODHYDERM O3 CE	GLYCERIN	0,5
		PYRUS MALUS EXTRACT	
		SODIUM LACTATE	
	PAM EXTRACT KS	GLYCERIN	0,5
		AQUA/WATER	
		CITRUS GRANDIS	
		POTASSIUM SORBATE	
D	TOCOPHEROL	TOCOPHERYL	0,8
E	ACIDE DEHYDROACETIQUE	DEHYDROXYACETIC ACID	1
	ALCOOL BENZYLIQUE	BENZYLIC ALCOHOL	

- 1) Prepare A at 80°C
- 2) Add B und stirring at 70°C
- 3) Add C under stirring at 50°C
- 4) Add D under stirring at 40°C

Organic Shampoo

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	EAU	AQUA/WATER	52,6
	PRODHYGEL CG	CARRAGEENAN	3
B	EAU	AQUA/WATER	12,4
	QUILLAJA SAPONARIA BIO	QUILLAJA SAPONARIA EXTRACT	1,4
	PRODHYBIO EF VERVEINE	AQUA	10
		VERBENA OFFICINALIS	
		CITRIC ACID	
		SODIUM BENZOATE	
	PRODHYBIO EAG TILLEUL DE BARONNIES	POTASSIUM SORBATE	2
		TILIA CORDATA EXTRACT	
C	PLANTACARE 810 UP	CAPRYLYL CAPRYL GLUCOSIDE	10
C	EAU	AQUA/WATER	4
	ACIDE CITRIQUE	CITRIC ACID	0,2
D	EAU	AQUA/WATER	4
	BENZOATE SODIUM	SODIUM BENZOATE	0,2
	SORBATE DE POTASSIUM	POTASSIUM SORBATE	0,2

1)Prepare A at 40°C

2)Add B under stirring at 40°C

3)Add C under stirring at 35 °C

4)Add D under stirring at 35 °C

Organic Shower Gel

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	EAU	AQUA/WATER	65,4
	PRODHYGEL CG	CARRAGEENAN	2,5
B	PRODHYBIO EA ORANGER	AQUA	12
		CITRUS AURANTIUM AMARA	
		CITRIC ACID	
		SODIUM BENZOATE	
		POTASSIUM SORBATE	
	QUILLAJA SAPONARIA BIO	QUILLAJA SAPONARIA EXTRACT	0,5
	SABOSOL PB	COCAMIDO PROPYL BETAINE	10
	PRODHYDERM PECHE CE	AQUA	1
		GLYCERIN	
		PRUNUS PERSICA EXTRACT	
C	EAU	AQUA/WATER	4
	ACIDE CITRIQUE	CITRIC ACID	0,2
D	EAU	AQUA/WATER	4
	BENZOATE SODIUM	SODIUM BENZOATE	0,2
	SORBATE DE POTASSIUM	POTASSIUM SORBATE	0,2

- 1) Prepare A at 40°C
- 2) Add B under stirring at 40°C
- 3) Add C under stirring at 35°C
- 4) Add D under stirring at 35°C

Organic Eye Line Lathery Gel

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% w/w
A	EAU	AQUA/WATER	41,3
	PRODHYGEL CG	CARRAGEENAN	2
	EAU	AQUA/WATER	20
B	PRODHYBIO EF HAMAMELIS	AQUA	20
		HAMAMELIS VIRGINIANA WATER	
		CITRIC ACID	
		SODIUM BENZOATE	
		POTASSIUM SORBATE	
	PRODHYGEL XT	XANTHAN GUM	0,5
C	PRODHYBIO EA HAMAMELIS	AQUA	13
		HAMAMELIS VIRGINIANA	
		CITRIC ACID	
		SODIUM BENZOATE	
		POTASSIUM SORBATE	
	QUILLAJA SAPONARIA BIO	QUILLAJA SAPONARIA EXTRACT	0,7
	PRODHYDERM KIGELIA CE		1,5
D	ACIDE DEHYDROACETIQUE	DEHYDROXYACETIC ACID	1
	ALCOOL BENZYLIQUE	BENZYLIC ALCOHOL	

- 1)Prepare A at 40°C
- 2)Add B under stirring at 40°C
- 3)Add C under stirring at 35°C
- 4)Add D under stirring at 35°C