

Plumeria Youth Treatment Cream Gel s-SG0010

A gentle anti-age treatment cream gel containing Biofruits Brasil and Retinol 15 D. **SchercemoI™* DID Ester** contributes rich moisturization. The ester, with its large molecular weight and branched structure, ensures targeted delivery of the actives. **Hydramol™* PGPL** and **TGL Esters** add humectancy and conditioning. **Carbopol®* Ultrez 21 Polymer** is an emulsion stabilizer.

INCI Name, Trade Name		Weight %	Function
A.	1. Deionized Water	84.10	Diluent
	2. Disodium EDTA, <i>Protachem NA2-P</i>	0.05	Chelating Agent
	3. PEG/PPG-8/3 Laurate, Hydramol™* PGPL Ester	0.50	Humectant
	4. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Carbopol®* Ultrez 21 Polymer	0.20	Rheology Modifier
B.	5. Deionized Water	2.00	Diluent
	6. Aminomethyl Propanol (95%), <i>AMP-Ultra™ PC 2000</i>	0.18	Neutralizer
C.	7. Phenoxyethanol, Methyl-, Ethyl-, Butyl-, Propyl-, (and) Isobutylparaben, <i>Phenip®</i>	1.00	Preservative
	8. Diisopropyl Dimer Dilinoleate, SchercemoI™* DID Ester	4.00	Emollient / Moisturizer
	9. Lauryl Lactate, SchercemoI™* LL Ester	3.00	Emollient / Moisturizer
	10. Acrylates/Acrylamide Copolymer (and) Mineral Oil (and) Polysorbate 85, Novemer®* EC-1 Polymer	1.70	Emulsifier / Rheology Modifier
	11. Polyglyceryl-3 Laurate, Hydramol™* TGL Ester	2.00	Moisturizer
	12. Malpighia Glabra (Acerola) Fruit Extract, Paullinia Cupana (Guarana) Seed Extract, Passiflora Edulis (Passionfruit) Fruit Extract, Sweet Almond Protein, Propylene Glycol, Sodium stearate, <i>Biofruits Brasil</i>	1.00	Botanical Extract Blend
	13. Caprylic/Capric Triglyceride (and) Retinol (Vitamin A), <i>Retinol 15 D</i>	0.15	Vitamin
	14. Fragrance, <i>Plumeria #S5-26204</i>	0.10	Fragrance
	15. D&C Orange No. 4 (1% soln)	0.01	Dye
	16. D&C Red No. 40 (1% soln)	0.01	Dye

Procedure:

1. Add warm (~40 °C) deionized water to mixing vessel. Dissolve EDTA into the water.
2. Disperse Carbopol®* Ultrez 21 Polymer by sprinkling on the surface of warm deionized water. After polymer has wetted, mix slowly for 10 minutes.
3. Add Hydramol™* PGPL Ester and mix until uniform.
4. In a separate vessel, pre-mix ingredients in PART B and add to PART A. Mix batch slowly until Ultrez 21 is neutralized and homogenous.
5. Add ingredients in PART C in the order shown, ensuring that each ingredient is completely dispersed before addition of next ingredient. Mix until smooth and homogenous.

Product Properties:

Appearance	Semi-viscous peach cream gel
pH	6.0 – 7.0
Viscosity (mPa·s)**	14,000 – 22,000
Yield Value (dyn/cm ²)	150 - 300
Specific Gravity (g/ml)	0.97 – 1.02
Total Solids (%)	8.0 – 13.0
Stability:	Passed 2 months @ 40 °C, 1 month @ 50 °C, 3 cycles freeze/thaw

** Brookfield RVT @ 20 rpm, #6 spindle, measured after 24 hours

Supplier References:

Protameen (2)

Noveon, Inc. (3, 4, 8, 9, 10, 11)

Angus/Dow (6)

Clariant Corporation (7)

Chemunion (12)

BASF (13)

Premier Specialties, Inc. (14)

Quantum Colours (15, 16)

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