

Refreshing Facial Serum

F-0181(EU)

This serum has been specially developed to refresh the skin literally and figuratively. The combination of **PemuPur™* START polymer**, which is natural-derived and efficient, and **Hydramol™* TGL ester**, which is an ECOCERT certified water-dispersible humectant and a low level of Sodium Stearoyl Glutamate acting as co-emulsifier, provides excellent stabilization of the emulsion at low viscosity with a refreshing sensory during application. The serum contains up to 20% of oils, including **Schercemol™* 1818 ester**, selected for a soft but not greasy afterfeel. **Actiphyte™* grapefruit seed** helps to purify and unify skin tone. **Argireline®* Amplified peptide** is a multifunctional ingredient able to improve and relax appearance of expression wrinkles and to address aging-related changes of skin for an overall younger-looking appearance.

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	66.20	Diluent
	2. Polyglyceryl-3 Laurate, Hydramol™* TGL ester	0.50	Humectant
	3. Glycerin	2.00	Humectant
B.	4. Propanediol, <i>Zemea® Propanediol</i>	3.00	Humectant
	5. Microcrystalline Cellulose (and) Sphingomonas Ferment Extract (and) Cellulose Gum, PemuPur™* START polymer	0.70	Polymeric Emulsifier
C.	6. Sodium Stearoyl Glutamate, <i>Amisoft® HS-11P</i>	0.10	Co-emulsifier
D.	7. Isostearyl Isostearate, Schercemol™* 1818 ester	5.00	Emollient
	8. Coco-Caprylate/Caprate, <i>MIGLYOL® Coco 810 RSPO-MB</i>	15.00	Emollient
E.	9. 1,2-Hexanediol, <i>Dermosoft® Hexiol</i>	1.00	Preservative
	10. Caprylyl Glycol, <i>Dermosoft® Octiol</i>	0.20	Preservative
	11. Sodium Benzoate	0.10	Preservative
	12. Alcohol denat	2.00	Diluent
	13. Water (and) Acetyl Hexapeptide-8 (and) Sodium Benzoate, Argireline®* Amplified peptide solution	2.00	Skin Conditioning Agent
	14. Citrus Grandis (Grapefruit) Seed Extract, Actiphyte™* Grapefruit Seed GL80NP	2.00	Skin Conditioning Agent
	15. Fragrance, <i>Baby Aloe Vera</i>	0.20	Fragrance

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Product Properties:

Appearance	Fluid emulsion
pH	5.50 – 6.50
Viscosity (mPa·s)**	1700 – 2100
Yield Value (dyn/cm ²)**	130 – 230
Recommended Packaging	Dropper
Stability:	Pass 1 month @50 °C, 40 °C, 25 °C and 5 freeze/thaw cycles
Thickener (% active)	0.70

**Brookfield® RV, DVII+ Viscometer (Brookfield AMETEK, Inc.)
spindle 4 @ 20 rpm, 25 °C @ 24 hours

Supplier References:

Lubrizon Advanced Materials, Inc. (2, 5, 7)
 DuPont Tate & Lyle Bio Products (4)
 Ajinomoto OmniChem (6)
 IOI Oleo GmbH (8)
 Evonik Dr. Straetmans GmbH (9, 10)
Lipotec SAU (13, 14)
 Sensient Fragrances (15)

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Procedure:

1. In an appropriate clean beaker, weigh the ingredients of **PHASE A** and mix them together under stirring.
2. Premix the ingredients of **PHASE B** under stirring and once the dispersion is completed add to the batch under stirring and heat up to 60 °C, then add **PHASE C**.
3. In a separate vessel, weigh the ingredients of **PHASE D**, mix them together under stirring and heat up to 60 °C.
4. Then add **PHASE D** to batch under stirring and homogenize with Ultra-Turrax® at 10000rpm for 1 minute.
5. Let it cool down to 35 °C and add ingredients of **PHASE E**, one by one, under stirring until uniform.