

Starting point formulation – Bodylotion (W/O) for extremely dry/atopic skin – efficient regeneration

This special formulation moisturizes the skin thanks to its urea and glycerine content. Valuable oils such as pumpkin and pomegranate seed oil contribute to the regeneration of damaged, atopic skin. The caring effect is supported by aloe vera and panthenol.

TIXOGEL-DMC contributes to the stabilization and the non-greasy skin feel of this unique formulation.

Formulation

Position	Component	INCI	Supplier	Function	Dosage (%)
A	Water demineralized	Aqua		Carrier	63.75
	Blanova Aloe Vera Gel 200x FD Powder	Aloe Barbadensis Leaf Juice Powder, Citric Acid	Azelis	Active	0.05
	Pentavitin	Saccharide Isomerate	dsm-firmenich	Moisturizing agent	0.50
	Urea	Urea	Carl Roth	Moisturizing agent	7.50
	D-Panthenol 75W	Panthenol, Aqua	BASF	Active	1.30
	Glycerin 99.5 %	Glycerin	Sigma Aldrich	Moisturizing agent	3.00
	Sodium Hydroxide Solution 5 %	Sodium Hydroxide, Aqua	Carl Roth	pH-regulator	0.05
B	ISOLAN PDI	Diisostearoyl Polyglyceryl-3 Dimer Dilinoleate	Evonik	Emulsifier W/O	1.70
	ISOLAN GPS	Polyglyceryl-4 Diisostearate/Polyhydroxystearate/Sebacate	Evonik	Emulsifier W/O	2.50
	Zinc Stearate	Zinc Stearate	Sigma-Aldrich	Stabilizer	1.00
	TEGOSOFT OER MB	Oleyl Erucate	Evonik	Emollient	5.00
	CETIOL® OE	Dicaprylyl Ether	BASF	Emollient	4.35
	Pomegranate Seed Oil	Punica Granatum Seed Oil	Gustav Heess	Emollient	1.50
	Pumpkin Seed Oil	Cucurbita Pepo Seed Oil	Henry Lamotte	Emollient	1.50
	KAHLWAX 6684	Jasminum Grandiflorum Flower Cera	KAHL	Consistency providing agent	0.50
	TIXOGEL-DMC	Dimethicone, Quaternium-90 Bentonite, Triethyl Citrate	BYK	Rheologie modifier	5.00
	Vitamin-C Palmitate (Ascorbyl Palmitate)	L-Ascorbyl Palmitate	dsm-firmenich	Antioxidant	0.30
	Cosphaderm T-50 NON GMO ECO	Tocopherol, Helianthus Annuus Seed Oil	Cosphatec	Antioxidant, product protection	0.30
C	Butterfly Kiss	Fragrance	Voegele	Parfum	0.20
Total					100.00

Instructions (manufacturing procedure)

- First, demineralized water is prepared. The remaining raw materials of phase A are then added one after the other in the order indicated and dissolved until a clear solution is obtained.
- Heat up phase A to 35 °C.
- Pour Tegosoft OER and Cetiol OE into another beaker. Then add Ascorbyl Palmitate. Heat up to 120 °C and keep the temperature for 1 min to dissolve it clearly. Cool down to 80 °C.
- Add the rest of the material of phase B to this beaker. Allow all materials to melt and keep the temperature at 65 °C
- Transfer phase A to phase B while the ultra turrax is running (1 min 4000 up to 8000 rpm). Homogenize for 1 min more to obtain a fine emulsion.
- Cool down to < 40 °C while stirring (wing stirrer 500 rpm). Then add the parfum and stir until homogeneous.
- Finally, homogenize again.

Characteristic data

- Appearance: pale green viscous emulsion.
- Storage stability: 3 months at 40 °C.

TIXOGEL-DMC is a rheology additive that thickens the oil phase and stabilizes the entire formulation while providing a very pleasant skin feel.



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