



SKIN CARE CREAM

INFLUENCE OF PROCESS ON MONTANOV + SIMULSOL 165 EMULSIONS 6885B

Formula

A	<ul style="list-style-type: none">• MONTANOV 202 (<i>Arachidyl alcohol & behenyl alcohol & arachidyl glucoside - SEPPIC</i>)• SIMULSOL 165 (<i>Glyceryl stearate and PEG-100 stearate - SEPPIC</i>)• Caprylic capric triglyceride	2.50 % 2.50 % 20.00 %
B	<ul style="list-style-type: none">• SIMULGEL EG (<i>Sodium acrylate/acryloyldimethyltaurate copolymer and Isohexadecane and Polysorbate 80 - SEPPIC</i>)	0.50 %
C	<ul style="list-style-type: none">• Water	QSP 100 %
D	<ul style="list-style-type: none">• SEPICIDE HB (<i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butylparaben - SEPPIC</i>)• SEPICIDE CI (<i>Imidazolidinyl urea - SEPPIC</i>)• Fragrance	0.30 % 0.20 % 0.10 %

Procedure

1 : high shear mixing equipment (with a rotor stator mixing head)

Melt fatty phase at 80°C. Heat water to the same temperature. Add A onto C then start homogenizer (rotor stator – 1500rpm) for 4' (DUMEK 2 kg batch). Introduce SIMULGEL EG, and stop heating. Keep homogenization until temperature is 60°C. then stop the homogenizer and allow to cool with moderate stir. At approx 30°C introduce preservatives.

2 : medium shear mixing equipment (with a defloculating stirrer)

If you don't have any high shear mixer, you can use a defloculating stirrer. Dipperse SIMULGEL EG into water the heat the resulting gel to 80°C. Separately heat the fatty phase to 80°C then add it to aqueous phase while mixing (3000rpm). Keep the same shear during all the cooling step. At approx. 30°C add preservatives.

Comments

MONTANOV 202

Glucolipid emulsifier in harmony with nature. It produces emulsions with a very light, evanescent feel that are easy to apply and rapidly absorbed. These emulsions leave the skin feeling soft and non-greasy. Their matt finish effect helps prevent shine. MONTANOV 202 can promote liquid crystals according to the emulsion diagram, creating water reservoirs within the emulsion to help maintain skin moisturization. In combination with the other grades of the MONTANOV range, MONTANOV 202 can be used to modulate the texture and flexibility of the emulsions as desired.



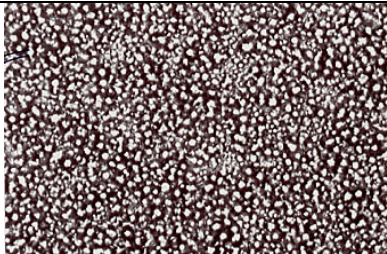
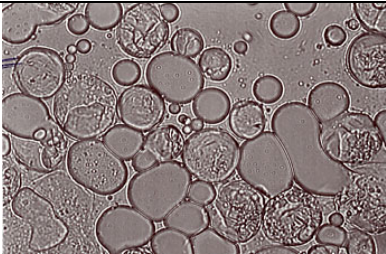
SIMULSOL 165

Self emulsifying base. Can be used synergistically with any emulsifier of MONTANOV range in order to produce smooth and stable creams.

SIMULGEL EG

Thickening and emulsifying agent in liquid form. Very easy to use (no predispersion or neutralization). SIMULGEL EG perfectly stabilizes emulsions against high temperatures giving rich, silky texture that are easy to apply and rapidly absorbed by the skin.

Characteristics

Procedure	1	2
Appearance	Soft cream	lotion
pH	6.8	
Viscosity	20,000 mPa.s BROOKFIELD LV 6rpm	5,400 mPa.s BROOKFIELD LV 6rpm
Stability	Stable at room temperature/40/50°C	
Microscopic examination		
Droplet's size	6μ	14 to 30μ
Texture analysis 57CO055 : measures suppleness and consistency	Maximal compression force (Newton,N) : 0.3N.	Can not be measured with a similar method due to lower viscosity
	This force is the required force for the spin to penetrate into the product at a fixed speed and deepness : the lower the force, the greater the suppleness.	

Notes

Caprylic capric triglyceride: DUB MCT (STEARINERIE DUBOIS)

Fragrance: ESPRIT DE FLEUR RS8217 (TECHNICOFLOR)

6885B° – SEPPIC – F0302

Since this formula has not been the object of a toxicological study, the use and handling of the products proposed is purely indicative and SEPPIC accepts no responsibility for their use by another party.