



PROTECTIVE SUNCREAM VIVO SPF 15 – BROAD SPECTRUM 6833

Formula

A	<ul style="list-style-type: none">• Water• Xanthan gum• Magnesium aluminium silicate• Tetrasodium EDTA• Glycerin	QS 100% 0.30 % 1.50 % 0.20 % 7.00 %
B	<ul style="list-style-type: none">• C12-15 alkyl benzoate• MONTANOV 82 (Cetearyl alcohol and Coco glucoside - SEPPIC)• SEPIFEEL ONE (Palmitoyl proline / Magnesium palmitoyl glutamate / Sodium palmitoyl sarcosinate - SEPPIC)	20.00 % 4.20 % 0.80 %
C	<ul style="list-style-type: none">• Cyclomethicone• SEPIGEL 305 (Polyacrylamide and C13-14 isoparaffin and Laureth-7 - SEPPIC)	5.00 % 2.00 %
D	<ul style="list-style-type: none">• Methylene bis benzotriazolyl tetramethylbutylphenol (TINOSORB™)• Citric acid	20.00 % QS PH5.5
E	<ul style="list-style-type: none">• SEPICIDE HB (Phenoxyethanol/ Methylparaben/ Ethylparaben/ Propylparaben/ Butylparaben - SEPPIC)• SEPICIDE CI (Imidazolidinyl urea - SEPPIC)• Fragrance	0.30 % 0.20 % 0.30 %

Procedure

Disperse the xanthan gum into the aqueous phase (A). Add the silicate and the glycerin then heat to 80°C. Separately heat fatty phase (B) to 75°C. Add B to A then start homogenizing for 5' (6KG TRIMIX™ - rotor stator). At this step introduce the silicon oil and the SEPIGEL while continuously homogenizing. Allow to cool with continuous stir. Add the pre-acidified TINOSORB™ at approx. 50°C. Keep constant rate of shear and add preservatives and fragrance at 30°C.

Comments

MONTANOV 82

Glucolipid emulsifier in harmony with nature. It facilitates the formulation of sun care products that are stable in terms of texture, dispersion of sunscreens, protection factor, etc.

SEPIFEEL ONE

Significantly enriches the texture and reduces the watery feel without adding any greasy feel. SEPIFEEL ONE guarantees even, stable dispersion of mineral charges over time.



SEPIGEL 305

Agent épaississant et émulsionnant de présentation liquide très facile à utiliser (pas de prédispersion ni de neutralisation). SEPIGEL 305 stabilise parfaitement les émulsions aux tests de stabilité en température.

Characteristics

Appearance	white cream
pH	approx. 5
Viscosity	>100 000 mPa.s BROOKFIELD LV 6rpm
Stability	Stable at room temperature/40°C/50°C Stable when centrifuged 20' 3000 rpm 50°C

Assessment

Vitro SPF stable over time (measured at 1 month / 3 months) : 11 ± 1 / 12 ± 1 (% UVB absorption =91 - % UVA absorption =90) – star category ☆☆☆☆
(method SEPPIC 57CO033, vitro skin®, spectrophotometer LABSPHERE®)

Vivo SPF : 15 (5 volunteers- report DERMSCAN 1010320)

Notes

Xanthan gum: KELTROL T (KELCO)

C12-15 alkyl benzoate (distribué par SEPPIC dans certains pays)

Cyclomethicone : DC345 (DOW CORNING)

Fragrance: APHRODIS X010.029 (QUEST)

Methylene bis benzotriazolyl tetramethylbutylphenol : TINOSORB M (CIBA)- NB : 10% active sunfilter= 20% TINOSORB M) – the above formulation do contain 10% of sunfilter in active ingredient.

6833 – SEPPIC – A0207

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.