

**Enjoy the sun**

**CLARIANT** 



Greater chemistry

# Enjoy the SUN SPF 30\* (AVI 7483)

TRADE NAME	INCI	% W/W
<b>A</b> Water	Aqua	Ad 100
Glycerin 85%	Glycerin	3.00
Aristoflex Silk	Sodium Polyacryloyldimethyltaurate	1.30
Aristoflex HMB	Ammonium Acryloyldimethyltaurate/Beheneth-25 Methacrylate Crosspolymer	0.30
<b>B</b> Hostaphat KL 340 D	Trilaureth-4 Phosphate	2.00
Cetearyl Alcohol	Cetearyl Alcohol	1.00
<b>Velsan SC</b>	<b>Sorbitan Caprylate</b>	<b>2.00</b>
Plantasens Olive LD	Hydrogenated Ethylhexyl Olivatate (and) Hydrogenated Olive Oil Unsaponifiables	5.00
Caprylic/Capric Triglyceride	Caprylic/Capric Triglyceride	2.00
Eclipsogen AVB	Butyl Methoxydibenzoylmethane	4.00
Eclipsogen OC	Octocrylene	5.00
Eclipsogen BP3	Benzophenone-3	4.00
Eclipsogen EHMC	Ethylhexyl Methoxycinnamate	3.00
<b>C</b> Eclipsogen Sorb M	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	0.70
<b>D</b> Caprylyl Methicone	Caprylyl Methicone	1.00
<b>E</b> Vagestop	Glycerin, Water, Sparassis Crispa Extract	2.00
<b>Nipaguard SCP</b>	<b>Sorbitan Caprylate (and) Phenoxyethanol</b>	<b>1.00</b>
<b>F</b> Citric acid	Citric acid	q.s

\* Calculated

## PROCEDURE

- I** Mix A until the gel is homogeneous and heat at 85°C.
- II** Mix B and heat to 85°C.
- III** Add C to A.
- IV** Add II to III while stirring with high shear tool for approx. 2 min. at 19000 rpm until homogeneous.
- V** Cool down to 35 -30°C stirring at approx. 200 rpm; add D.
- VI** Finally add the components of E.
- VII** Adjust the pH with F to 5.5-6.

## RESULTS

<b>Appearance</b>	:	white cream
<b>pH</b>	:	5.5 - 6
<b>Viscosity</b> (Brookfield, 20rpm; 20°C)	:	17800 mPas
<b>Stability</b>	:	3 months at RT and 40°C
<b>Challenge test</b>	:	"A" – Pass (Eur.Pharm)

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## Complex Formulation with

- > 15% Organic UV Filter
  - Velsan SC for solubilizing and stabilizing UV Filters
  - pH 5.5–6.0
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## Preserved with

- Nipaguard SCP
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Passes Eur. Pharm. Challenge test with A-pass



# Enjoy the SUN SPF 30\* (AVI 7483)

## Challenge test results

PRESERVATIVE SYSTEM	USE CONCENTRATION	Pa	Sa	Ec	Ca	Ab	TOTAL
Unpreserved (23BSF10/2-5)	-	A	B	A	F	F	FAIL
Nipaguard SCP 2% 1,3-Propandiol (23BSF10/2-6)	1.0% 2.0%	A	A	A	A	A	A-PASS

Test Type: Eur. Pharm Colony forming units per g after:

Test Organism	Batch	Baseline	2 days	7 days	14 days	28 days	Criteria	
Pseudomonas aeruginosa	DSMZ 1128	3,80E+05	<10	<10	<10	<10	A	
Staphylococcus aureus	DSMZ 799	4,30E+05	3,00E+01	<10	<10	<10	A	
Escherichia coli	DSMZ 1576	1,08E+06	<10	<10	<10	<10	A	
Candida albicans	DSMZ 1386	8,40E+04	-	<10	<10	<10	A	
Aspergillus brasiliensis	DSMZ 1988	8,00E+04	-	-	<10	<10	A	
							Resulting final criteria	Pass A

Velsan SC and Nipaguard SCP ensures protection of formulation with a high amount of organic UV filter

Challenge test data according to Eur. Pharm requirements

■ FAIL ■ PASSED A CRITERIA ■ PASSED B CRITERIA

**Pa:** Pseudomonasparaeruginosa, **Sa:** Staphylococcus aureus,  
**Ec:** Escherichia coli, **Ca:** Candida albicans;  
**Ab:** Aspergillus brasiliensis