

CLARIANT 

Crystal clean micellar gel

BU Consumer Care
Preservation
Global Marketing
Feb 2024

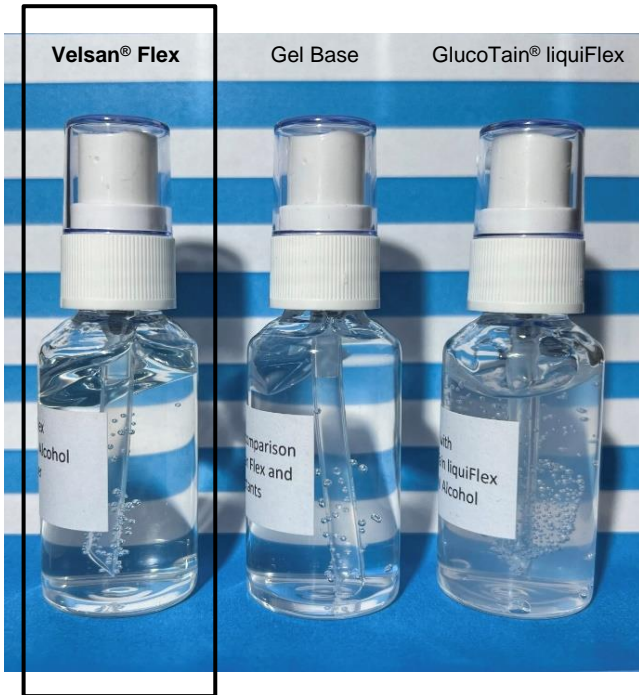
Greater chemistry

A detailed microscopic image of a micellar gel structure. It shows several spherical micelles with a textured, crystalline surface. The micelles are arranged in a cluster, with some overlapping. The lighting creates bright highlights and deep shadows, emphasizing the three-dimensional structure. A thin black line outlines a portion of the structure, and a small white oval highlights a specific detail on one of the micelles.



Micellar Gel with 1.5% Velsan Flex + 0.3% Benzyl Alcohol without further surfactant

CRYSTAL CLEAN MICELLAR GEL



KB 2023-008-006

A	Water	Diluent	Ad 100%
	Glycerin 85%	Humectant	3.00 %
	BioDTox	Active	2.00 %
	Benzyl Alcohol	Preservative	0.30 %
B	Aristoflex® Velvet (Clariant) Polyacrylate Crosspolymer-11	Rheology Modifier	1.00 %
C	Velsan® Flex (Clariant) Capryloyl/Caproyl Anhydro Methyl Glucamide (and) Water	Solubilizer & Preservative Booster	1.50 %

PROCEDURE

- I Mix components of A and stir until homogenous
- II Add B to I and stir at 200 rpm with a finger stirrer until polymer is fully hydrated.
- III In a separate beaker mix components of C and stir until fully solubilized .
- IV Add III to II and stir until solution is clear.
- V Add C to IV and stir until homogenous.
- VI Add D to V and stir until homogenous.
- VII Finally check pH and adjust if necessary to 6.3

RESULTS

Appearance	:	clear gel
pH	:	6.27
Viscosity (Brookfield, 20rpm; 20°C)	:	3500 mPas
Stability	:	12 weeks @ RT & 40°C
Microbiology DIN ISO 11930	:	Pass with criteria A

Cleansing – Solubilization – Preservative Boosting

Challenge: Clear application with high water content

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PRESERVATIVE SYSTEM	USE CONCENTRATION	EFFICACY @ pH 6.3					TOTAL
		Pa	Sa	Ec	Ca	Ab	
Unpreserved	blank	F	F	F	A	B	FAIL
Velsan® Flex + Benzylalcohol	0.5% 0.3%	A	A	A	A	A	PASS*



Challenge test data according to ISO 11930. requirements **F: FAIL** **A: PASSED A CRITERIA** **B: PASSED B CRITERIA**

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