

Natural Baby shower

Mild and natural shower gel with a low preservative load due to a strong synergism between Sodium Benzoate and Velsan Flex. The soft and creamy foam providing gentle cleansing, leaving a pleasant and smooth after feel due to GlucoTain Sense.



Preservation system: Velsan Flex

- High preservation-boosting power
- COSMOS-approved
- 93% RCI
- ISO 16128 compliant
- Excellent water solubility
- Broad pH stability (pH 3.5–9)
- Solubilizing properties
- gentle cleansing

Preservative system	Use Conc.	Efficacy @ pH 5.7					
		Pa	Sa	Ec	Ca	Ab	TOTAL
Unpreserved	blank	F	A	B	A	F	FAIL
Velsan Flex Sodium Benzoate	0.5% 0.3%	A	A	A	A	A	PASS*

Other key ingredients to the formula

Ingredients	Key Benefits
Hostapon™ CCG	<ul style="list-style-type: none"> • moderately mild to skin • fluffy foam
GlucoTain™ Plus	<ul style="list-style-type: none"> • ultra-mild to skin, • airy foam, • gentle cleansing
GlucoTain™ Sense	<ul style="list-style-type: none"> • ultra-mild to skin, • creamy foam, • conditioning • gentle cleansing

Challenge test data according to ISO 11930. requirements

F: Fail **A:** Passed A Criteria **B:** Passed B Criteria

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

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AI 4019

	Trade Name / INCI	Function	% w/w
A	Water	Diluent	Ad 100 %
B	XG FNCSP-PC <i>Xanthan Gum</i>	Rheology Modifier	1.00 %
C	Hostapon CCG (Clariant) <i>Sodium Cocoyl Glutamate</i>	Anionic Surfactant	4.00 %
	GlucoTain Plus (Clariant) <i>Capryloyl/Caproyl Methyl Glucamide (and) Lauroyl/Myristoyl Methyl Glucamide</i>	Co-surfactant Foam Booster	10.00 %
	GlucoTain Sense (Clariant) <i>Sunfloweroyl Methyl Glucamide</i>	Co-Surfactant	1.92 %
D	Water	Diluent	10.00 %
	Sodium Benzoate	Preservative	0.30 %
E	Velsan Flex (Clariant) <i>Capryloyl/Caproyl Anhydro Methyl Glucamide (and) Water</i>	Multifunctional	0.50 %
F	Citric Acid solution 50 %	Neutralizer	q.s. pH 5.7

Procedure

- I Stir A using a propeller stirrer, add B to the top of the vortex and stir for about 30 min. until clear.
- II Mix components of C and stir until clear. Add mixture to phase I.
- III In a separate beaker mix the components of D and add to II.
- IV Add E to III and stir until the solution is clear. (magnetic stirrer)
- V Adjust the pH with F to 5.5 – 6.0

Results:

Appearance:	clear shower gel
pH:	5.7
Viscosity: (Brookfield, 20rpm; 20°C)	2900 mPa*s
Stability	12 weeks @ RT & 40°C