

# Mild repair shampoo

CLARIANT<sup>E</sup>



Greater chemistry

# Mild & repair shampoo

## sulfate-free

	TRADE NAME	INCI	% W/W
A	Water	Diluent	ad 100 %
	Hostapon CGN (Clariant) Sodium Cocoyl Glutamate	Surfactant	6.00%
B	Genagen CAB 818 (Clariant) Cocamidopropyl Betaine	Co-Surfactant	11.00 %
	<b>Nipaguard SCE (Clariant)</b> Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid	Preservative	<b>1.00 %</b>
	Water	Diluent	30.00 %
C	Glucotain Care (Clariant) Cocoyl Methyl Glucamide	Co-Surfactant	7.50 %
	Glucotain Plus (Clariant) Capryloyl/Caproyl Methyl Glucamide, Lauroyl Myristoyl Methyl Glucamide	Co-Surfactant	3.00 %
	PEG-80 Sorbitan Laurate	Buffering Agent	1.00 %
	PEG-120 Methyl Glucose Dioleate	Rheology Modifier	1.00 %
D	Fragrance Water Liliy	Fragrance	0.20 %
E	Trisodium Citrate	Buffering Agent	0.50 %
	Water	Diluent	1.00 %
F	Citric Acid solution 50%	Neutralizing Agent	q.s. to pH 5.0-5.80

## PROCEDURE

- I Prepare phase A by adding Hostapon CGN into demineralized water.
- II Prepare phase B by premixing Genagen CAB 818 and Nipaguard SCE. Then add water and mix Phase I with Phase II.
- III After maintaining a clear solution, add phase C ingredients respectively to II. Make sure GlucoTain Care was pre-liquified at 32oC before usage.
- IV Add D and mixed F respectively.
- V Check the pH, Adjust pH with phase F to around 5.0-5.8.

# Sulfate – free & deep clean mild repair shampoo

## Challenge test results

PRESERVATIVE SYSTEM	USE CONCENTRATION	Pa	Sa	Ec	Ca	Ab	TOTAL
Unpreserved	-	A	A	A	A	B	B PASS
Nipaguard SCE (pH 5.7)	1.0%	A	A	A	A	A	A-PASS

Nipaguard SCE protects formulation against *Aspergillus brasiliensis* contamination

Challenge test data according to Eur. Pharm requirements

■ FAIL ■ PASSED A CRITERIA ■ PASSED B CRITERIA

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

Test Organism	Batch	Baseline	7 days	14 days	28 days	Criteria
<i>Pseudomonas paraeruginosa</i>	DSMZ 1128	2.00E+05	<10	<10	<10	A
<i>Staphylococcus aureus</i>	DSMZ 799	5.40E+05	<10	<10	<10	A
<i>Escherichia coli</i>	DSMZ 1576	6.20E+05	<10	<10	<10	A
<i>Candida albicans</i>	DSMZ 1386	4.50E+04	<10	<10	<10	A
<i>Aspergillus brasiliensis</i>	DSMZ 1988	2.30E+05		1.50E+04	9.00E+03	A