

C-247

STRENGTHENING SHAMPOO

GUIDELINE FORMULARY

DESCRIPTION

SLES and sulfate free formulation
Enriched with vitamins and nutrients

COMPOSITION

	%
BETADET® HR	16.3
AKYPO® FOAM RL 40	13.3
BETADET® THC-2	12.0
EXCEPARL® LM-LC	2.0
Decyl Glucoside ⁽¹⁾	7.5
Sodium Chloride	0.5
Panthenol 50% ⁽²⁾	0.4
Keratin ⁽³⁾	0.2
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative	q.s.
Deionized Water	Up to 100

(1) Triton® CG-50 from Dow

(2) Provit® 50 from BASF

(3) Keratec™ IFP PE from CRODA

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear yellowish liquid	KCSA-258
pH (as it is):	Approx. 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 2000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Add to the water the following surfactants: Decyl Glucoside, BETADET® HR, BETADET® THC-2, AKYPO® FOAM RL 40 and EXCEPARL® LM-LC stirring after each addition until total homogeneity.

Add Panthenol and Keratin, and stir until complete homogenization.

Adjust pH (it is recommended to use diluted sodium hydroxide to increase it and lactic acid if a pH decrease is necessary).

Add the other additives: preservative (soluble), fragrance (15 minutes of agitation are usually needed to solubilize it), dye(s) (diluted in water) and other (extracts, etc.).

Adjust the final viscosity using Sodium Chloride until desired level.

COMPONENTS

AKYPO® FOAM RL 40 (Sodium Laureth-5 Carboxylate, ≈ 60% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Mild foam-booster for Personal Care products. Produces a rapid foam and improves the foam behaviour of cleansing products when used as co-surfactant.

BETADET® HR (Cocamidopropyl Betaine, ≈ 35% dry matter): amphoteric character. Secondary surfactant. It decreases the irritation level of the anionic surfactants on the skin, improving level and quality of the foam. Additional thickening affect.

BETADET® THC-2 (Disodium Cocoamphodiacetate, ≈ 40% a.m.): amphoteric character. Very mild co-surfactant. It decreases the irritation level of the anionic surfactants on the skin, improving volume and quality of the foam. Additional thickening affect.

EXCEPARL® LM-LC (Lauryl Lactate, ≈ 100% a.m.): non-ionic character. Liquid ingredient derived from renewable sources. Thickener for cleansing compositions. It can be added at room temperature. Recommended dosage for rinse-off formulations, between 0.3 and 3%. For skin care application, it performs as skin emollient with high/medium spreadability and low oiliness. Recommended use percentage for skin care is 10% max. Excellent solubilizing properties for UV-filters.

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose.

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in harmony with nature.

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