

C-306

MICELLAR SHAMPOO

GUIDELINE FORMULARY

DESCRIPTION

Mild shampoo
Silicone - Feel
Daily use

COMPOSITION

	%
AKYPO® FOAM LM 25	16.1
BETADET® S-20	13.2
AKYPO® SOFT 100 BVC	5.0
KAO SOFCARE® GP-1	1.0
KAOPAN® TW-IS399S	0.8
Polyquaternium-7 ⁽¹⁾	1.0
KAO Fragrance	q.s.
Preservative ⁽²⁾	0.5
Citric Acid (10% solution)	q.s.
Deionized Water	Up to 100

(1) Merquat™ 550 PR from Lubrizol

(2) Microcare® SB from Thor

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear viscous liquid	KCSA-258
pH (as it is):	Approx. 5.2	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 8,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Charge deionized water and dissolve Polyquaternium-7 until it is completely dissolved.

Add BETADET® S-20, stirring until total homogeneity.

Add AKYPO® FOAM LM 25, stirring until total homogeneity.

Add KAO SOFCARE® GP-1, stirring until the solution is completely clear.

Add a premixture of AKYPO® SOFT 100 BVC with parfum.

Add KAOPAN® TW-IS399S to increase viscosity and stir until complete incorporation.

Adjust pH to 5.0 - 5.5 with citric acid 10%.

Add preservative. Stir until complete homogeneous.

COMPONENTS

AKYPO® FOAM LM 25 (Potassium Laureth-4 Carboxylate, ≈ 60% a.m.): anionic character. Primary surfactant. Offers a soft and creamy foam, very stable and with special texture. Very mild and easy to thicken surfactant. Specially designed for sulfate-free formulations.

AKYPO® SOFT 100 BVC (Sodium Laureth-11 Carboxylate, ≈ 70% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Foaming co-surfactant, with solubilizing properties and very mild for the skin.

BETADET® S-20 (Lauryl Hydroxysultaine, ≈ 38% a.m.): amphoteric character. Very mild co-surfactant. It decreases the irritation level of anionic surfactants, improving the quality of the foam and performing also as a thickener. It improves the stability of the formula at extreme pH's and low temperature.

KAOPAN® TW-IS399S (PEG-160 Sorbitan Triisostearate, ≈ 75% a.m.): non-ionic character. Liquid thickener for any type of cleansing surfactant systems. Specially designed to increase viscosity of sulfate-free formulations. Processable at room temperature.

KAO SOFCARE® GP-1 (PPG-3 Caprylyl Ether, ≈ 100% a.m.): non-ionic character. Clear transparent liquid at room temperature. Multi-functional conditioning agent that imparts similar characteristics to those of silicones, such as feel and functionality. It improves foam generation and hair shine.

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