

# C-248

# SHOWER GEL

## ULTRA MILD

### GUIDELINE FORMULARY

#### DESCRIPTION

EO-free formulation

It leaves the skin soft and smooth

It gently removes dirt, oil and makeup without causing redness, over drying or irritation.

#### COMPOSITION

	%
BETADET® HR	16.3
BETADET® THC-2	12.0
EXCEPARL® LM-LC	1.9
Decyl Glucoside <sup>(1)</sup>	7.5
Exfolactive <sup>(2)</sup>	0.2
KAO Fragrance	q.s.
Preservative	q.s.
Dye(s)	q.s.
Citric Acid (10% solution)	q.s.
NaCl	0.5
Deionized Water	Up to 100

(1) Triton® CG-50 from Dow

(2) Exfolactive from Tecal

#### TECHNICAL CHARACTERISTICS

#### Kao Method

APPEARANCE (20°C):	Clear yellowish liquid	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 2,000	KCSA-227

## RECOMMENDED OPERATIVE METHOD

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Add to the water the following surfactants: Decyl Glucoside, BETADET<sup>®</sup> HR, BETADET<sup>®</sup> THC-2, and EXCEPARL<sup>®</sup> LM-LC stirring after each addition until total homogeneity.

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

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**BETADET<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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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