

Mild & Tangle-Free Kids Shampoo



Formulation

A high-clarity gel shampoo built on a sulfate-free surfactant base with ReNuva RL-50 for deep follicular cleansing. Phase A is heated to 60°C for homogenization before Phase B addition. The system thickens upon pH adjustment and cooling, delivering a luxurious gel texture with a rich lather.

PHASE A

PHASE TOTAL: 63.8000%

PHASE INSTRUCTIONS

No phase instructions provided.

TRADE NAME	INCI NAME	FUNCTION	W/W %
Suga®Det L	Lauryl Glucoside	Surfactant	8.8000
Calchem BTMS-25	Behentrimonium Methosulfate (and) Cetearyl Alcohol	Conditioning Emulsifier	0.5000
Antil SPA 80 MB	Lauryl Glucoside (and) Polyglyceryl-2 Dipolyhydroxystearate	Co-surfactant	1.0000
Water	Aqua	Solvent	53.5000

PHASE B

PHASE TOTAL: 36.2000%

PHASE INSTRUCTIONS

No phase instructions provided.

TRADE NAME	INCI NAME	FUNCTION	W/W %
ReNuva™ RL-50 (Rhamnolipid)	Glycolipids	Biosurfactant	3.6000
Cola®Teric 1C	Sodium Cocoamphoacetate	Amphoteric Surfactant	12.5000
Cola®Teric COAB	Cocamidopropyl Betaine	Amphoteric Surfactant	14.9000
Citric Acid (30%)	Citric Acid	pH Adjuster	3.0000
Phenoxyethanol	Phenoxyethanol	Preservative	1.0000
Sodium Chloride	Sodium Chloride	Viscosity Modifier	1.2000

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Specifications

VISCOSITY

3200 mPa·s (Brookfield sp.4, 20 RPM, 25°C)

APPEARANCE

Clear to slightly hazy gel. Rich, creamy lather.
Smooth rinse-off.

PH TARGET

5.9 - 5.9

PROCEDURE

Heat Phase A to 60°C. Add Phase B under 450 RPM. Cool to 40°C, adjust pH with Citric Acid (30%), add NaCl for viscosity.

STABILITY TEST

4 wks @ 40°C/50°C · Freeze-thaw x3 · Viscosity check T0 & T4w