



Formulation

No. 2019

Grapefruit Shower Gel (Sulfate-Free)

DESCRIPTION

This formulation features **Suga®Nate 160NC**, **Cola®Teric CBS-HP**, **Cola®Mate LA-40**, and **Poly Suga®Mulse D9** in a gentle, naturally based body wash formulation which leaves skin feeling clean without excessive drying or irritation from harsh sulfates.

FORMULATION

Order	INCI Name	Trade Name	%
1	Water	Water	qs to 100.00
2	Sodium Laurylglucosides Hydroxypropylsulfonate	Suga®Nate 160NC	19.20
3	Disodium Lauryl Sulfosuccinate	Cola®Mate LA-40	4.00
4	Cocamidopropyl Hydroxysultaine (Fatty Acid)	Cola®Teric CBS-HP	9.60
5	Citrus Paradisi (Grapefruit) Peel Oil	Grapefruit Oil ¹	0.30
6	Sorbitan Oleate Decylglucoside Crosspolymer	Poly Suga®Mulse D9	0.30
7	Sodium Benzoate and Potassium Sorbate	Euxyl® K712 ²	1.00
8	Citric Acid	Citric Acid 50%	qs

PROCEDURE

1. In primary vessel, combine ingredients 1 – 2 and begin heating to 45°C.
2. Once at temperature, add ingredient 3
3. Mix until clear and uniform, then add ingredient 4.
4. In a separate vessel, combine ingredients 5 – 6 as a premix and add to batch.
5. Once clear and uniform, add ingredient 7.
6. Adjust pH to 5.0 - 5.5 with citric acid (viscosity is pH dependent).

TYPICAL PROPERTIES

Appearance Clear, Viscous Liquid
pH 5.0 – 5.5
Viscosity 5,000 – 7,000 cP

SUPPLIERS

¹Orchidia Fragrances, ²Schülke and Mayr

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