



All-Natural Plant-Based Body Wash (Sulfate-Free)

DESCRIPTION

This 100% plant-based cleanser uses a combination of **Suga®Nate 160NC** and **Suga®Nate 100NC** to create a gentle lather that effectively lifts away dirt and oil without irritation. Also featured is **Poly Suga®Mulse D9** for emolliency and to incorporate the essential oils of your choice, so your skin is left feeling healthy and refreshed.

FORMULATION

Order	INCI Name	Trade Name	%
1	Water	Water	qs to 100.00
2	Pentylene Glycol	A-Leen® 5+ ¹	1.00
3	Lactic Acid	PURAC® HiPure 90 ²	3.22
4	Glycerin	Glycerin	3.00
5	Xanthan Gum	Keltrol® CG LAX-T ³	0.75
6	Sodium Decylglucosides Hydroxypropylsulfonate	Suga®Nate 100NC	17.00
7	Sodium Laurylglucosides Hydroxypropylsulfonate	Suga®Nate 160NC	10.00
8	Sodium Cocoyl Glutamate	Plantapon® ACG 50 ⁴	4.00
9	Sorbitan Oleate Decylglucoside Crosspolymer	Poly Suga®Mulse D9	5.00
10	Lavandula Angustifolia (Lavender) Oil	Lavender Oil ⁵	0.20
11	Cymbopogon Citratus (Lemongrass) Oil	Lemongrass Oil ⁵	0.05
12	Sodium Hydroxide	NaOH 50%	qs to pH 5.0 – 5.5

¹Minasolve, ²Corbion, ³CP Kelco, ⁴BASF, ⁵Orchidia Fragrances

PROCEDURE

1. In primary vessel, combine ingredients 1 – 3.
2. In a separate vessel, disperse xanthan gum in glycerin to create a smooth slurry.
3. Add the slurry to the primary vessel with moderate mixing. Mix until completely hydrated.
4. Add ingredients 6 – 9. Mix until uniform.
5. Add ingredients 10 – 11. Mix until clear, heating to 40 – 45°C if necessary.
6. Adjust to pH 5.0 – 5.5 with ingredient 12.

TYPICAL PROPERTIES

Appearance	Clear, Viscous Liquid
pH	5.0 – 5.5
Viscosity (LV3, 6 rpm)	4,000 – 8,000 cP
Surfactant Solids	15.7 – 16.5%

INGREDIENTS

Water, Sodium Decylglucosides Hydroxypropylsulfonate, Sodium Laurylglucosides Hydroxypropylsulfonate, Sorbitan Oleate Decylglucoside Crosspolymer, Glycerin, Lactic Acid, Sodium Cocoyl Glutamate, Pentylene Glycol, Xanthan Gum, Sodium Hydroxide, Lavender Oil, Lemongrass Oil

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