

Bath Gelee

CL-B0019

The exceptional ability of **Hydramol™* PGDS Ester** to enhance viscosity is demonstrated in this formulation. Used as the sole thickening agent in this unique formulation, it forms a thick, stiff bath gel that thins and spreads on skin when it comes into contact with hot water from the bath or shower.

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	51.995	Diluent
	2. Disodium EDTA, <i>Protacide NA-2</i>	0.050	Chelating Agent
	3. PEG-90 Diisostearate, Hydramol™* PGDS Ester	2.500	Thickener
	4. Isostearamidopropyl Ethyldimonium Ethosulfate, Propylene Glycol, Schercoquat™* IAS Quaternium	0.500	Conditioner
	5. Sodium Laureth Sulfate (28%, 2 mole), Sulfochem™* ES-2 Surfactant	30.000	Surfactant
	6. Ammonium Lauryl Sulfate (30%), Sulfochem™* ALS Surfactant	10.000	Surfactant
	7. Polyglyceryl-3 Laurate, Hydramol™* TGL Ester	2.000	Moisturizer
	8. DMDM Hydantoin, <i>Glydant®</i>	0.400	Preservative
B.	9. 30%, 3 mole), urfactant	2.000	Surfactant
	10. Fragrance, <i>Fresh & Clean #PSI-01890 Fragrance</i>	0.500	Fragrance
C.	11. FD&C Blue No. 1 (1% soln), FD&C Blue No. 1	0.055	Dye

Procedure:

1. Add water to mixing vessel. Dissolve Disodium EDTA while mixing into the water.
2. Heat batch to 60°C. Add remaining ingredients in PART A in the order given, ensuring that each ingredient is completely dissolved before the addition of the next ingredient.
3. Cool while mixing to 35°C.
4. Pre-blend PART B and add to the batch while mixing. Mix until uniform.
5. Add color in PART C as desired.

Product Properties:

Appearance Clear blue, viscous gel

pH 5.5 – 6.5

Viscosity (mPa·s)** 12,000 – 18,000 (25°C)

30,000-40,000 (23°C)

Total Solids (%) 16.0 – 21.0

Specific Gravity (g/ml) 0.97 – 1.02

Turbidity (NTU)*** 0 – 10

Stability: Passed 3 months @ 40°C, 1 month @ 50°C, 3 cycles freeze/thaw

** Brookfield RVT @ 20 rpm, 25°C, #5 spindle, measured @ 24 hours

*** HF Scientific, Inc., Micro 100 Turbidimeter

Supplier References:

Protameen (2)

Noveon, Inc. (3, 4, 5, 6, 7, 9)

Lonza (8)

Premier Specialties, Inc. (10)

Quantum Colours (11)

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