



## Opaque Bodywash Formulation

Phase	Ingredient	Wt. %
A	Deionized water	47.60
	Carbopol 934	0.10
	Zemea® Propanediol	2.00
	Polyquaternium-10	0.25
B	Ammonium Lauryl Sulfate	25.00
	Sodium Laureth Sulfate	15.00
	Cocamidopropyl Betaine	5.00
	Cocamide MEA	2.00
C	Glycol Stearate	1.50
D	Fragrance	0.15
E	DMDM Hydantoin	0.20
F	Citric Acid	0.00
G	Sodium Chloride	1.20
Viscosity		7,150 cP

### Manufacturing Process

1. Dissolve the Polyquaternium-10 in water, heat to 65-70°C, and add remainder of phase A.
2. Heat phase B to 65-70°C and add to phase A.
3. Add phase C and mix at 65-70°C until phase C melts and is dispersed.
4. Slowly cool to 40°C with mixing, and add phases D and E.
5. Adjust pH to 6.0-6.5 with phase F.
6. Adjust viscosity to 7,000-15,000 cps with phase G.

### For additional information or samples:

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