

Clear Hydrating Body Wash with Suspended Beads CL-B0004

This clear hydrating body wash with beads demonstrates the excellent suspending ability and clarity provided by **Carbopol®* Aqua SF-1 Polymer**.

	INCI Name, Trade Name	Weight %	Function
1.	Deionized Water	41.78	Diluent
2.	Acrylates Copolymer (30%), Carbopol®* Aqua SF-1 Polymer	7.50	Rheology Modifier
3.	Sodium Laureth Sulfate (2 mole, 26%), Sulfochem™* ES-2TK Surfactant	39.00	Surfactant
4.	Sodium Hydroxide (18%)	1.20**	Neutralizer
5.	Cocamidopropyl Betaine (35%), Chembetaine™* C Surfactant	8.00	Surfactant
6.	PEG-8, <i>Lipo Polyglycol® 400</i>	0.50	Humectant
7.	Disodium EDTA, <i>Protachem NA2-P</i>	0.05	Chelating Agent
8.	Phenoxyethanol, Methyl-, Ethyl-, Butyl-, Propyl-, (and) Isobutylparaben, <i>Phenonip®</i>	0.50	Preservative
9.	Benzophenone-4, <i>Uvinul® MS-40</i>	0.01	UV Absorber
10.	FD&C Blue No. 1 (0.1%)	0.28	Dye
11.	D&C Yellow No. 10 (0.1%)	0.18	Dye
12.	Mineral Oil, Vitamin E, Gelatin, Mica, Titanium Dioxide, <i>Lipopearls™ LTI-0293 (color – white)</i>	1.00	Moisturizer

** q.s. to pH 6.6

Procedure:

1. Add **Carbopol®* Aqua SF-1 Polymer** to deionized water. Add **Sulfochem™* ES-2TK Surfactant** with gentle mixing.
2. Neutralize to pH 6.6 with sodium hydroxide.
3. Add remaining ingredients in order while mixing.
4. Check pH and adjust with additional sodium hydroxide if necessary to pH 6.5 – 6.6.
5. Check viscosity, adjust with NaCl if necessary. (Note: High levels of NaCl will affect clarity).

Product Properties:

Appearance Clear, aqua-blue liquid with suspended beads

pH 6.4 – 6.8

Viscosity (mPa s)*** 5,500 – 7,500

Yield Value (dyn/cm²) 150 – 250

Turbidity (NTU)**** 8 – 16

Stability: Passed 3 months @45°C, 5 cycles freeze/thaw

Carbopol®* Aqua SF-1 Polymer 2.3

Actives (%)

Surfactant Actives (%) 12.6

*** Brookfield RVT @ 20 rpm, #4 spindle, measured @ 24 hours

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

Supplier References:

Noveon, Inc. (2, 3, 5)

Lipo (6, 12)

Protameen (7)

Clariant (8)

BASF (9)

Quantum Colours (10, 11)

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