

# Bath Gel with Vitamin E Moisturizing Beads CL-B0010

This sparkling blue bath gel creates luxurious foam, and features gelatin beads containing Vitamin E and mineral oil to moisturize and nourish the skin. **Carbopol®\* Ultrez 20 Polymer** provides efficient thickening in the presence of moderate levels of surfactant while maintaining a high level of clarity. The visual appeal of this formula is further enhanced by the moisturizing beads, which are effectively suspended by **Carbopol®\* Ultrez 20 Polymer**.

	INCI Name, Trade Name	Weight %	Function
<b>A.</b>	1. Deionized Water	46.13	Diluent
	2. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <b>Carbopol®* Ultrez 20 Polymer</b>	1.00	Rheology Modifier
	3. Propylene Glycol	6.00	Humectant
	4. Sodium Laureth Sulfate (3 mole, 28%), <b>Sulfochem™* ES-3 Surfactant</b>	30.00	Surfactant
	5. Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben, <i>Germaben® II</i>	1.00	Preservative
<b>B.</b>	6. Deionized Water	5.00	Diluent
	7. Benzophenone-4, <i>Uvinul® MS-40</i>	0.02	UV Absorber
	8. Disodium EDTA, <i>Protachem NA2-P</i>	0.10	Chelating Agent
<b>C.</b>	9. Sodium Hydroxide (18%)	2.80	Neutralizer
	10. Cocamidopropyl Betaine (35%), <b>Chembetaine™* C Surfactant</b>	4.00	Surfactant
	11. Fragrance, #J9262	0.60	Fragrance
	12. Polysorbate-20, <i>Protasorb L-20</i>	0.80	Solubilizer
	13. Mineral Oil, Vitamin E, Gelatin, Mica, Titanium Dioxide, <i>Lipopearl™ LTI-0293 (color – white)</i>	1.00	Moisturizer
	14. <b>FD&amp;C Blue No. 1 (0.1%)</b>	0.05	Dye
	15. <b>D&amp;C Green No. 5 (0.1%)</b>	1.50	Dye

## Procedure:

1. Disperse Carbopol®\* Ultrez 20 Polymer by sprinkling on the surface of warm (~40°C) deionized water without mixing.
2. Begin gentle mixing when polymer is wetted. Add propylene glycol. Mix until uniform. Add remaining ingredients in PART A in order.
3. Pre-combine PART B ingredients. Heat water to dissolve. Add PART B to PART A.
4. Add remaining ingredients in order to batch. Pre-combine fragrance and Polysorbate-20 before adding to batch. Mix until uniform.
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7. Pre-combine PART B ingredients. Heat water to dissolve. Add PART B to PART A.
8. Add remaining ingredients in order to batch. Pre-combine fragrance and Polysorbate-20 before adding to batch. Mix until uniform.

**Product Properties:**

Appearance	Viscous, clear blue gel with beads
pH	6.6 – 6.8
Viscosity (mPa s)**	3,500 – 6,500
Yield Value (dyn/cm <sup>2</sup> )	200 – 300
Turbidity (NTU)***	8 – 15
Stability:	Passed 3 months @45°C, 5 cycles freeze/thaw

Surfactant Actives (%) 10.4

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

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

**Supplier References:**

**Noveon, Inc. (2, 4, 10)**

Dow / VWR (3)

ISP (5)

BASF (7)

Protameen (8, 12)

Bell Flavors and Fragrances (11)

Lipo (13)

**Quantum Colours (14, 15)**

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