

Body Polishing Shower Gel Using Carbopol® ETD 2020 Polymer

This mild, foaming shower gel features jojoba beads to exfoliate and cleanse, leaving the skin feeling smooth.

Ingredient /INCI-CTFA Name		Weight, %	Function	Trade Name (Supplier)
PART A				
1.	Deionized Water	52.45	Diluent	Carbopol [®] ETD 2020 (Noveon, Inc.)
2.	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	1.10	Rheology Modifier	
3.	Disodium EDTA	0.05	Chelating Agent	
PART B				
4.	Butylene Glycol	2.00	Humectant	Nipagin [®] M (Nipa Laboratories)
5.	Propylene Glycol	1.00	Humectant	
6.	Methylparaben	0.20	Preservative	
7.	Propylparaben	0.10	Preservative	Nipasol [®] M (Nipa Laboratories)
8.	Phenoxyethanol	0.60	Preservative	Phenoxetol [®] (Nipa Laboratories)
PART C				
9.	Disodium Dimethicone Copolyol Sulfosuccinate (30%)	25.00	Primary Surfactant	Mackanate™ DC-30 (McIntyre)
10.	Polysorbate 20	1.50	Solubilizing Agent	Tween [®] 20 (ICI Surfactants)
11.	Cocamidopropyl Betaine (30%)	2.00	Amphoteric Surfactant / Foam Booster	Tego [®] Betain L 7 (Th. Goldschmidt)
12.	Sodium Laureth Sulfate (28%, 2 mole EO)	8.00	Secondary Surfactant	Texapon [®] NSO (Henkel)
PART D				
13.	Triethanolamine (99%)	1.00	Neutralizing Agent	
PART E				
14.	Hydrogenated Jojoba Oil	5.00	Skin-Conditioning Agent	Florabeads [®] , Jojoba-Arizona Sky 40/60 (Floritech)
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PROPERTIES:

Appearance:	Clear gel with blue beads
pH:	5.0 - 5.5
Viscosity* (cP):	5,000 - 7,000
Yield Value (dynes/cm ²):	320 - 400
Stability Data:	Passed 45°C, 3 months Freeze/Thaw – 5 cycles

*Brookfield DV - II+ (or RVT) @ 20 rpm, RV spindle #4

PREPARATION PROCEDURE:

1. Disperse **Carbopol[®] ETD 2020** into deionized water. Mix until polymer is dispersed.
2. Heat dispersion to 50°C and add disodium EDTA with moderate agitation.
3. Combine PART B and warm to 45°C until parabens dissolve. Slowly add PART B to PART A. Cool PART A & B to 35°C.
4. Combine PART C at room temperature with moderate-agitation and add to batch.
5. Neutralize with triethanolamine with slow to moderate agitation.
6. Add the beads of PART E with slow agitation.
7. Cool to room temperature.

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