



## Zemea® Moisturizer

Phase	Trade/Drug Name	INCI Name	Supplier	Wt.%
A <sub>1</sub>	Sesame Oil	Sesame Oil		20.00
A <sub>2</sub>	Grapeseed Oil	Grapeseed Oil		10.00
A <sub>3</sub>	Canola Oil	Canola Oil		9.00
A <sub>4</sub>	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	Ajinomoto USA, Inc	5.00
A <sub>5</sub>	Eldew PS-306	Phytosterol Beheny/Octyl Dodecyl/Lauroyl Glutamate	Ajinomoto USA, Inc	3.80
A <sub>6</sub>	Cetearyl Alcohol	Cetearyl Alcohol		3.00
A <sub>7</sub>	Squalane	Squalane		1.00
A <sub>8</sub>	Vitamin E	Alpha-tocopherol		0.50
B <sub>1</sub>	Deionized Water	Water		37.40
B <sub>2</sub>	Hyalo Oligo	Hydrolyzed Hyaluronic Acid	QP Corporation (Distributed by Ajinomoto USA, Inc)	0.10
B <sub>3</sub>	Vanzan	Xanthan Gum	RT Vanderbilt	0.30
C <sub>1</sub>	Ajldew NL-50	Sodium PCA	Ajinomoto USA, Inc	1.00
C <sub>2</sub>	Zemea® Propanediol	Propanediol		5.00
D <sub>1</sub>	Amlsoft HS-11P	Sodium Stearoyl Glutamate	Ajinomoto USA, Inc	2.90
E <sub>1</sub>	Preservative			1.00
F <sub>1</sub>		Citric Acid		qs to pH 5.5 +/- 0.2
Total				100.00

### Manufacturing Process

1. Combine A and heat to 78°C with mixing.
2. In Batch Vessel charge B1 and heat to 78°C with good mixing, preferably using homogenization.
3. Slowly dust in B2 and B3. Allow to mix at 78°C until completely hydrated and uniform.
4. Add B4 and mix until uniform
5. Add C to batch vessel. Add D to batch vessel.
6. Add E to batch vessel, all maintaining mixing and 78°C.
7. Add A to batch vessel and allow to mix at 78°C for 20 minutes. Cool. At 50°C add F. Cool to room temperature and adjust pH.

### Product Features:

1. Appearance: black, viscous paste pH: 6.5-7.5.
2. Viscosity: Approx. 50000 mPas (Brookfield DVII: spindle 7, speed 10).
3. Stability: Stable for more than 3 months at 20°C, 40°C and 4°C.

### For additional information or samples:

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Prototype formulation provided by: Ajinomoto USA, Inc. Fort Lee, New Jersey



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