



## Zemea® Light Moisturizer

Phase	Trade/Drug Name	INCI Name	Supplier	Wt.%
A <sub>1</sub>	Sesame Oil	Sesame Oil		3.00
A <sub>2</sub>	Grapeseed Oil	Grapeseed Oil		3.00
A <sub>3</sub>	Lipo HNO	Hazelnut Oil	Lipo Chemicals, Inc	3.00
A <sub>4</sub>	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	Ajinomoto USA, Inc	10.00
A <sub>5</sub>	Eldew PS-306	Phytosterol Beheny/Octyl Dodecyl/Lauroyl Glutamate	Ajinomoto USA, Inc	1.50
A <sub>6</sub>	Cetearyl Alcohol	Cetearyl Alcohol		1.00
A <sub>7</sub>	Liponate MM Flakes	Myristyl Myristate	Lipo Chemicals, Inc	1.00
A <sub>8</sub>	Synthetic Squalane	Squalane	Arista Industries	0.50
A <sub>9</sub>	a-Tocopherol	Vitamin E	BASF	0.50
B <sub>1</sub>	Deionized water	Water		68.55
B <sub>2</sub>	Vanzan	Xanthan Gum	RT Vanderbilt	0.25
B <sub>3</sub>	Veegum HS	Magnesium Aluminum Silicate	RT Vanderbilt	1.50
B <sub>4</sub>	Hyalo-Ollgo	Hydrolyzed Hyaluronic Acid	Q.P. Corp, dist. by Ajinomoto USA, Inc	0.05
C <sub>1</sub>	Ajldew NL-so	Sodium PCA	Ajinomoto USA, Inc	1.00
C <sub>2</sub>	Zemea® Propanediol	Propanediol	DuPont Tate and Lyle	5.00
D <sub>1</sub>	Amlsoft HS-11P	Sodium Stearoyl Glutamate	Ajinomoto USA, Inc	1.30
E <sub>1</sub>	Kiwi Seed Extract PC (50%)	Actinidia Chinensis (KiwQ Seed Extract, Dextrin	Oryza Corp, dist. by Ajinomoto USA, Inc	0.10
E <sub>2</sub>	Arnihope LL	Lauroyl Lysine	Ajinomoto USA, Inc	1.00
F <sub>1</sub>	Euxyl PE9010	Phenoxyethanol, Ethylhexyl Glycerin	SchUlke & Mayr	0.75
G <sub>1</sub>	Citric Acid	Citric Acid		qs to pH 5.5 +/-0.2

### 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.
3. Slowly dust in B2 and B3. Allow to mix at 78°C until completely hydrated and uniform.
4. Add C to batch vessel. Add D to batch vessel.
5. Add E to batch vessel, all maintaining mixing and 78°C.
6. 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

