

Environmental and Blue Light Protection Lotion No. 662

	Wt. %
A VANATURAL [®] CA Bentonite Clay	2.50
VANZAN [®] NF Xanthan Gum	0.50
Water	79.00
Avena Sativa (Oat) Kernel Extract (and) Glycerin (and) Phenoxyethanol (Tech-O [®] #6-090 L ¹)	2.00
Propanediol (Zemea [®] Propanediol ²)	5.00
PEG-20 Methyl Glucose Sesquistearate (Glucamate [®] SSE-20 Emulsifier ³)	2.00
B Methyl Glucose Sesquistearate (Glucate [®] SS Emulsifier ³)	2.00
Caprylic/Capric Triglyceride (Neobee [®] M-5 Cosmetic ⁴)	2.00
Tocopherol (Covi-ox [®] T-50 C ⁵)	0.50
Cetearyl Alcohol (TA-1618, Fatty Alcohol ⁶)	2.50
C Preservative	q.s.
Glycerin (and) Marrubium Vulgare Extract (Citystem ^{®7})	2.00
Citric Acid, 20%	q.s.

Procedure: While heating the water to 60-65°C, slowly add the **VANATURAL**[®] **CA** and **VANZAN**[®] **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Then, add the rest of the Part A ingredients and mix well after each. Maintain the water phase at 60-65°C. Combine the Part B ingredients (oil phase) and heat to 60-65°C. Add the oil phase to the water phase with good agitation; mix until uniform. Avoid incorporating air. Cool with mixing to <30°C, then add the preservative. Check the pH of the batch both prior to and after the incorporation of the Citystem. If necessary, adjust the pH to 5.0 (± 0.25) with citric acid, each time.

RAW MATERIAL SUPPLIERS
¹Beacon CMP Corporation, Kenilworth, NJ

²DuPont Tate & Lyle Bio Products Company, LLC, Wilmington, DE

³Lubrizol Advanced Materials, Inc., Cleveland, OH

⁴Stepan Company, Northfield, IL

⁵BASF Corporation, Florham Park, NJ

⁶Peter Cremer, Cincinnati, OH

⁷Croda, Inc., Edison, NJ

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