s 2 F

Formulation sheet

Zemea[®] Propanediol Natural Emulsion with Phytocream[®] 2000

Phase	Trade/drug name	INCI name	Supplier	Wt.%
A	Deionized water	Aqua	—	75.65%
	Zemea [®] propanediol	Propanediol	CovationBio PDO	3.00%
В	Phytocream [®] 2000	Potassium palmitoyl hydrolyzed wheat protein, glyceryl stearate, cetearyl alcohol	Sinerga	5.00%
	Sunflower seed oil	Helianthus annuus seed oil	Henry Lamotte	8.00%
	Palmerol [®] 1698	Cetyl alcohol	KLK Oleo	2.00%
	Cetiol OE	Dicaprylyl ether	Cognis	4.00%
	Dermofeel® Toco 70	Tocopherol, helianthus annuus seed oil	Dr. Straetmans	0.05%
B ₁	Aromatic Tangerine Extract H0826	Caprylic/capric triglyceride, citrus tangerina extract, limonene	Carrubba	1.00%
С	Geogard 221	Dehydroacetic acid, benzyl alcohol, water	Lonza	0.80%
D	Citric acid (solution 20%)	Citric acid	_	0.50%
	Total			100.00%

Procedure

- 1. Mix phase A and heat up to 75°C.
- 2. Heat phase B to 75°C and add phase B1 shortly before emulsifying.
- 3. Emulsify phase B to phase A under stirring. Homogenize for 1 2 minutes.
- 4. Cool down to 40°C under stirring at moderate speed and add phase C.
- 5. Continue stirring at moderate speed and cool down to room temperature.
- 6. Adjust pH with phase D.

Product features

- 1. Appearance: white emulsion pH: 5.5 6.0
- Viscosity: ~ 20.000 mPas (Brookfield DV-II: spindle 6, speed 10)

Prototype formulation provided by: Biesterfeld Spezialchemie GmBH., Zagreb, Croatia

3. Storage stability: 3 months at RT, 40°C, 4°C

For additional information or samples, please contact Customer Service.

198 Blair Bend Drive, Loudon, TN 37774 | Tel: +1-866-404-7933 | CovationBioPDO.com

Zemea® is a registered trademark of Primient Covation LLC for its brand of bio-based propanediol marketed under the name CovationBio[™] PDO. Copyright © 2023 Primient Covation LLC. All rights reserved. COV23_2301-0256_3-8473 (3/23)

This technical product information is presented in good faith and is believed to be accurate and reliable as of the date of publication. Primient Covation LLC makes no guarantee or warranty of any kind, expressed or implied, regarding the product or information contained herein. Purchaser assumes all risk and liability in acting on the information provided herein. It is the sole responsibility of the Purchaser to determine whether Zemea® propanediol is appropriate and suitable for the Purchaser's specific use and, as required, to obtain approval by appropriate regulatory authorities for such use. Statements concerning the use of Zemea® propanediol are not to be construed as recommendations, suggestions, or inducements to use it in the infringement of any patent or in violation of any applicable laws or regulations. Primient Covation LLC disclaims any liability for infringement of any patent by reason of customer's use of any products or information contained herein in combination with other materials or in any process.