









Formulation sheet

Zemea® liquid foundation with Vanatural® XGB

Phase	Trade/drug name	INCI name	Supplier	Wt.%
A	Water	_	_	77.97%
	Vanatural® XGB Bentonite Clay	Bentonite and xanthan gum	R.T. Vanderbilt Company, Inc.	4.00%
	Zemea® propanediol	Propanediol	CovationBio PDO	5.00%
В	Iron oxides and microcrystalline cellulose	C2-5 Yellow LLXLO	Kobo Products	0.40%
	Iron oxide (C.I. 77491) and cellulose	C2-5 Red R-516L		0.10%
	Iron oxide (C.I. 77499) and cellulose	C2-5 Black BL-100		0.03%
	Titanium dioxide and cellulose and alumina	C2-5 TiO2 CR-50		3.50%
	Mica and cellulose	C2-5 Sericite FSE		4.00%
С	Xyliance™	Cetearyl wheat straw glycosides and cetearyl alcohol	Actives International	5.00%
D	Preservative	_	_	q.s
	Total			100.00%

Formulation prototype provided by: R.T. Vanderbilt Company, Norfolk, CT, USA

Procedure

- 1. While heating the water to 75°C, slowly add the VANATURAL® XGB to the water agitated at maximum available shear.
- 2. Mix until it is fully hydrated and add the Zemea® propanediol.
- Combine the phase B ingredients, then add to phase A and mix until smooth.
- 4. Maintain the water phase at 75°C.

- 5. Heat phase C oil phase to 75°C.
- Add the oil phase to the water phase with good agitation; mix until uniform.
- 7. Avoid incorporating air.
- 8. Cool with mixing; add phase D when the emulsion is <30°C.

COVATIONBIO

For additional information or samples, please contact <u>Customer Service</u>.

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)