









## Formulation sheet

## Zemea® Propanediol Natural Emulsion Hitecream® 3000

Phase	Trade/drug name	INCI name	Supplier	Wt.%
А	Deionized water	Aqua	_	72.65%
	Zemea® propanediol	Propanediol	CovationBio PDO	3.00%
В	Hitecream® 3000	Potassium palmitoyl hydrolyzed oat protein, behenyl alcohol, palm glycerides, sodium stearoyl glutamate, sucrose palmitate	Sinerga	8.00%
	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 <sub>1</sub>	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%

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

## **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)
- 3. Storage stability: 3 months at RT, 40°C, 4°C

COVATION BIO PDO

For additional information or samples, please contact Customer Service.

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