



# Product Formulation

## Baby Prebiotics Intensive Cream

PHC-PF-23-089

This moisturizer relieves dryness and soothes baby's skin while adding powerful moisturizing actives and nourishing prebiotics. It incorporates Cocolatum 503, a vegan skin protectant and intense moisturizer.

Phase	Ingredient	INCI	Function	%
A1	Water	Aqua	Diluent	63.60
A2	Carbomer	Carbomer	Thickener	0.25
<b>A3</b>	<b>Glysoft RG</b>	<b>Refined Glycerin</b>	<b>Humectant</b>	<b>10.00</b>
A4	Methylglycinediacetic Acid	Methylglycinediacetic Acid	Chelating Agent	0.10
<b>B1</b>	<b>Emulsier GMS 100</b>	<b>Glyceryl Stearate</b>	<b>Emulsifier</b>	<b>3.50</b>
B2	Cetearyl Olivatate (and) Sorbitan Olivatate	Cetearyl Olivatate (and) Sorbitan Olivatate	Emulsifier	3.00
<b>B3</b>	<b>Glyzer CT200</b>	<b>Caprylic/Capric/Lauric Triglyceride</b>	<b>Emollient</b>	<b>2.50</b>
<b>B4</b>	<b>Cocolatum 503</b>	<b>Cocoglycerides (and) Euphorbia cerifera (Candelilla) Wax (and) Oryza sativa (Rice) Bran Wax</b>	<b>Emollient Base</b>	<b>8.00</b>
B5	Cetearyl Alcohol	Cetearyl Alcohol	Opacifier	2.00
B6	Sunflower Wax	Helianthus annuus (Sunflower) Seed Wax	Thickener	0.15
C1	Tapioca Starch (and) Polymethylsilsesquioxane	Tapioca Starch (and) Polymethylsilsesquioxane	Sensory Modifier	2.50
<b>D1</b>	<b>NatPro 9000</b>	<b>Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Capylhydroxamic Acid</b>	<b>Preservative</b>	<b>1.00</b>
D2	Inulin (and) Alpha-glucan Oligosaccharide	Inulin (and) Alpha-glucan Oligosaccharide	Prebiotic Active	0.50
D3	Saccharide Isomerate	Saccharide Isomerate	Skincare Active	1.00
D4	Vitamin E	Tocopheryl Acetate	Antioxidant	0.50
D5	Fragrance		Fragrance	0.40
D6	Vitamin B5	Panthenol	Skincare Active	1.00
<b>TOTAL</b>				<b>100.00</b>

### Formulation Benefits

- ✓ Smoothing and moisturizing
- ✓ With prebiotics, skin moisturizers
- ✓ Free from synthetic preservatives

### Key Ingredients

#### Cocolatum 503

- ✓ 100% Plant-derived and vegan
- ✓ Outstanding spreadability
- ✓ Silky skin-feel
- ✓ ISO 16128: 100%



#### Glyzer CT200

- ✓ Outstanding spreadability and non-greasy
- ✓ Moisturizing and suitable for sensitive skin
- ✓ ISO 16128: 100%



#### NatPro 9000

- ✓ Natural preservative and anti-microbial active
- ✓ Natural co-emulsifier and superfatting active
- ✓ Effective at pH from 4.0 to 7.0
- ✓ ISO 16128: 98%



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard

All data, formulations and information provided herein have not been comprehensively tested and are not represented as suitable for any particular uses. Statement concerning possible or suggested uses made herein may not be relied upon or be construed as a guaranty of no patent infringement. Users have the sole responsibility and obligation for making preliminary tests to determine the suitability of the sample formulations described herein for any application, to make tests before use in any specific applications, and to confirm the performance, efficacy, safety and regulatory compliance of such products for their particular use.

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## Procedure

- 1 In the main vessel, disperse the carbomer in water. Add the rest of Phase A and mix until homogeneous. Begin heating to up to 75°C.
- 2 In a separate container, add Phase B and melt up to 75°C until homogeneous.
- 3 Once both have the same temperature, add Phase B gradually into Phase A. Mix for a few minutes then lower the temperature to 55°C. Expect a rise in viscosity.
- 4 Add C1 and then homogenize for 10 minutes at 6000 rpm.
- 5 Return to mixing and allow to cool to less than 40°C.
- 6 Add Phase D one at a time, then fill according to the desired packaging.

## Specification

Appearance	Emulsion
pH (as is)	4.9 - 5.5
Density	0.95 - 1.00
Viscosity (mPas)	1,022,000

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