# Product Formulation

## Prebiotic Hand Cream

PHC-PF-23-134

This intensive hand cream is formulated with high doses of natural moisturizing ingredients, delivering Cocolatum 503 in an emulsion format that is ideal for liberal use without a sticky feel.

| Phase | Ingredient | INCI | Function | % |
|---|---|---|---|---|
| A1 | Water | Aqua | Diluent | 63.60 |
| A2 | Carbomer | Carbomer | Thickener | 0.25 |
| **A3** | **Glysoft RG** | **Refined Glycerin** | **Humectant** | **10.00** |
| A4 | Methylglycinediacetic Acid | Methylglycinediacetic Acid | Chelating Agent | 0.10 |
| **B1** | **Emulsier GMS 100** | **Glyceryl Stearate** | **Emulsifier** | **3.50** |
| B2 | Cetearyl Olivate (and) Sorbitan Olivate | Cetearyl Olivate (and) Sorbitan Olivate | Emulsifier | 3.00 |
| **B3** | **Glyzer CT200** | **Caprylic/Capric/Lauric Triglyceride** | **Emollient** | **2.50** |
| **B4** | **Cocolatum 503** | **Cocoglycerides (and) *Euphorbia cerifera* (Candelilla) Wax (and) *Oryza sativa* (Rice) Bran Wax** | **Emollient Base** | **8.00** |
| 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 |
| **D1** | **NatPro 9000** | **Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Capylhydroxamic Acid** | **Preservative** | **1.00** |
| 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 |
| | TOTAL | | | 100.00 |

### Formulation Benefits

- ✓ Smoothening 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



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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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