



# Product Formulation

## Probiotic Hair Mask

PHC-PF-22-026

A silicone-free hair mask that exhibits good conditioning for easier combing. It volumizes the hair without looking weighed down and oily. It contains probiotics that reduce the dryness of the scalp.

Phase	Ingredient	INCI	Function	%
A1	Water	Aqua	Diluents	qs
A2	EDTA	Tetrasodium EDTA	Chelating Agent	0.10
A3	Guar Hydroxypropyltrimonium Chloride	Guar Hydroxypropyltrimonium Chloride	Conditioning Agent	0.20
A4	<b>Glysoft RG</b>	<b>Glycerin</b>	<b>Humectant</b>	<b>2.00</b>
A5	Behentrimonium Chloride	Behentrimonium Chloride	Anti-static Agent	3.00
A6	Cetrimonium Chloride	Cetrimonium Chloride	Anti-static Agent	3.00
B1	<b>Glyzer CB100</b>	<b>Cocos nucifera (Coconut) Seed Butter</b>	<b>Emollient</b>	<b>5.00</b>
B2	<b>Glyzer CT100</b>	<b>Caprylic/Capric Triglyceride</b>	<b>Emollient</b>	<b>3.00</b>
B3	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	6.00
B4	Dicaprylyl Ether	Dicaprylyl Ether	Emollient	3.00
C1	Panthenol	Panthenol	Humectant	0.50
C2	Phenoxyethanol (and) Ethylhexylglycerin	Phenoxyethanol (and) Ethylhexylglycerin	Preservative	0.80
C3	Fragrance		Fragrance	0.40
C4	<b>Neosoft SD</b>	<b>Stearamidopropyl Dimethylamine Lactate</b>	<b>Hair Conditioning Active</b>	<b>2.50</b>
C5	Lactococcus Ferment Lysate	Lactococcus Ferment Lysate	Active Ingredient	1.00
C6	Hydroxypropyl Starch Phosphate	Hydroxypropyl Starch Phosphate	Rheology Modifier	2.00
<b>TOTAL</b>				<b>100.00</b>

### Formulation Benefits

- ✓ Silicone-free formula
- ✓ Natural conditioning
- ✓ Easier to rinse

### Key Ingredients

#### Glyzer CB100

- ✓ Provides intensive moisturization and radiance on skin
- ✓ Contains lauric acid that can help reduce acne
- ✓ ISO-16128: 100%



#### Glyzer CT100

- ✓ Outstanding spreadability
- ✓ Derived from natural source and biodegradable
- ✓ Mild, suitable for sensitive and oily skin
- ✓ ISO-16128: 100%



#### Neosoft SD

- ✓ Cold-processable hair conditioning active
- ✓ Imparts good conditioning without buildup
- ✓ ISO-16128: 88%



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 Add Water to a clean container. Start mixing.
- 2 Add Ethylenediamene Tetraacetic Acid. Mix until fully dissolved.
- 3 In a separate container, mix Guar Hydroxypropyltrimonium Chloride and **Glysoft RG**. Slowly add into bulk. Mix until homogenous. Heat up to 75°C – 80°C.
- 4 Add Behentrimonium Chloride and Cetrimonium Chloride. Mix after each addition until homogenous.
- 5 In a separate container, load **Glyzer CB100**, **Glyzer CT100**, Cetyl Alcohol and Dicaprylyl Ether. Heat up to 70-80°C until fully melted. Slowly add to Phase A while continuing mixing until emulsified. Mix for 10 minutes and cool down to 40°C.
- 6 Add Panthenol, Phenoxyethanol (and) Ethylhexylglycerin, Fragrance, **Neosoft SD** and Lactococcus Ferment Lysate. Mix until homogenous.
- 7 Add Hydroxypropyl Starch Phosphate, mix until fully dispersed. Homogenize for 2 minutes until uniform. Fill in the desired container.

## Specification

Appearance	Viscous emulsion
Color	White
pH	4.70
Viscosity, cPs	105,100

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