

Phytofuse Renew® Sample Formulations

Code: 16586
INCI Name: Selaginella Leipidophylla Extract
CAS #: 90106-73-3
EINECS #: 290-298-0

Sample Finished Formulation Guidelines

Beard Balm
FNFA01-10 – Beard Balm

Age Fighting Micellar Water
FNHP02-16 – Age Fighting Micellar Water

Anti-Frizz Treatment
FNHP02-04 – Anti-Frizz Treatment

Multivitamin Protective Moisturizer
FNHP02-17- Multivitamin Protective Moisturizer

Beard Balm

Formulation Code: FNTA01-10

Ingredient	Trade Name/Vendor	%
Phase I		
Water	Water	75.90
Selaginella Lepidophylla Extract	Phytofuse® Renew/Active Concepts	3.00
Carbomer	Carbopo® Ultrez 10 Polymer/Lubrizol	0.40
Glycerin	Glycerin/Spectrum Chemical	2.00
Propanediol	Zemea® Propanediol/Dupont Tate & Lyle	2.00
Phase II		
Acrylates/C10-30 Alkyl Acrylate	Pemulen™ TR-1/Lubrizol	0.20
Cocos Nucifera (coconut) Fruit Extract	AcquaSeal® Coconut/Active Concepts	3.00
Euterpe Oleracea Sterols & Linoleic Acid & Oleic Acid & Linolenic Acid	ABS Acai Sterols EFA/Active Concepts	3.00
Phase III		
Acrylates Crossspolymer-3	Fixate™ Freestyne Polymer/Lubrizol	3.00
Acrylates/Dimethicone Copolymer	SilDerm® Acrylate/Active Concepts	3.00
Phase IV		
Sodium Hydroxide (18%)	Sodium Hydroxide/Spectrum Chemical	0.50
Phase V		
Lactobacillus Ferment & Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	Leucidal® SF Complete/Active Micro Technologies	4.00

Manufacturing Process:

1. Add Phytofuse® Renew to water while mixing. Allow to mix thoroughly.
2. Sprinkle Carbopol® Ultrez 10 polymer on the surface while mixing and wait until the polymer is self-wetted.
3. Add remaining Phase I ingredients ensuring fully dispersed before adding the next.
4. Combine Phase II and mix until the polymer is finely dispersed.
5. Add Part II to Part I under rapid mixing. Allow mixing for at least 20-30 minutes.
6. Homogenize product.
7. Add Phase III with gentle mixing
8. Neutralize with Sodium Hydroxide to pH 5.0-5.5 while mixing. Add Phase V while mixing.

Age Fighting Micellar Water Formulation Code: FNHP02-16

Ingredient	Trade Name/Vendor	%
Phase I		
Water	Water/Local	72.25
Tetrasodium EDTA	Tetrasodium EDTA/Spectrum Chemical	0.05
Glycerin	USP Glycerin Vegetable/Spectrum Chemical	3.00
Cocamidopropyl Betaine (35%)	Cocamidopropyl Betaine/BASF	6.00
Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	AMTicide® Coconut /Active Micro Technologies	4.00
Lactobacillus Ferment	Leucidal® Liquid SF/ Active Micro Technologies	4.00
Selaginella Lepidophylla Extract	Phytofuse Renew®/Active Concepts	1.00
Hydrolyzed Elastin	AC Soluble Elastin 10 PF/Active Concepts	2.00
Pisum Sativum (Pea) Peptide	ACB Pisum Sativum Peptide	2.00
Lactobacillus Bifidus Lysate Extract	ACB Phyto-Biotics Bifidus/Active Concepts	5.00
Polysorbate 20	Polysorbate 20/Spectrum Chemical	0.30
Polysorbate 80	Polysorbate 80/Spectrum Chemical	0.30
Fragrance (Optional)	N/A	0.10
Sodium Hydroxide (25%)	Sodium Hydroxide/Spectrum Chemical	Q.S.

Manufacturing Process:

1. Charge water to vessel
2. Using appropriate mixing, add ingredients in descending order, waiting for each to be dissolved before adding the next
3. If fragrance is desired, pre-mix Polysorbate 20, Polysorbate 80, and fragrance, add to batch
4. Adjust pH to 5.0 with NaOH solution

Anti-Frizz Treatment Formulation Code: FNHP02-04

Ingredient	Trade Name/Vendor	%
Phase I		
Water	Water/Local	79.25
Hydrolyzed Silk	AC Silk Hydrolysate PF/ Active Concepts	1.00
Disodium EDTA	Disodium EDTA/Spectrum Chemical	0.05
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Carbopol® Ultrez 21 Polymer/Lubrizol	0.25
Sodium Hydroxide (18%)	Sodium Hydroxide/Sigma-Aldrich	0.20
Phase II		
CocosNucifera(Coconut) Fruit Extract	AcquaSeal® Coconut/Active Concepts	5.00
PEG-33 and PEG-8 Dimethicone and PEG-14	SilSense® Copolyol-1 Silicone/Lubrizol	0.25
Glycerin	Glycerin/Dow Chemical	1.00
Hydrolyzed Kale Protein & Hydrolyzed Carrot Protein & Hydrolyzed Lemon Protein	ACB Kale Protein Blend/Active Concepts	1.00
Cetearyl Alcohol	Lanette® O/BASF	0.50
Phase III		
Glycerin & Water & Aloe Barbadensis Leaf Extract	ABS Aloe Extract G /Active Concepts	2.00
SelaginellaLepidophylla Extract	Phytofuse Renew®/Active Concepts	1.50
Leuconostoc/Radish Root Ferment Filtrate	Leucidal® Liquid SF/Active Micro Technologies	4.00
Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	AMTicide® Coconut /Active Micro Technologies	4.00

Manufacturing Process:

1. Dissolve disodium EDTA and AC Silk Hydrolysate PF in deionized water. Use heat as necessary.
2. Add Carbopol® Ultrez 21 Polymer. Mix thoroughly.
3. Add sodium hydroxide, adjusting to pH 5.5.
4. Maintain Phase I at a temperature of 70°C.
5. Blend ingredients of Phase II at 70°C. Mix thoroughly.
6. Add Phase II to Phase I with high speed agitation.
7. Once mixed, cool product to 40°C with mixing.
8. Add Phase III ingredients in the order listed individually to main beaker.



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Multivitamin Protective Moisturizer

Formulation Code: FNHP02-17

Ingredient	Trade Name/Vendor	%
Phase I		
Water	Water	QS
Aloe Barbadosensis Leaf Extract	ABS Aloe Powder/Active Concepts	0.50
Panthenol	D,L Panthenol/Rita Corp.	0.50
Methyl Gluceth-20	Glucam™ E-20/Lubrizonol	1.00
Allantoin	Allantoin/Protameen	0.50
Carbomer	Carbopol® Ultrez 10/Lubrizonol	0.50
Phase II		
Stearic Acid	Stearic Acid/Rita Corp.	2.00
Simmondsia Chinensis (Jojoba) Seed Oil	Lipovol® J/Lipo Chemicals	1.00
Cyclopentasiloxane & Dimethicone/Bis-Vinylidimethicone/Silsesquioxane Crosspolymer & Silk	SilDerm® Softening/Active Concepts	1.00
Glycine Soja (Soybean) Oil	Lipovol® SOY/Lipo Chemicals	1.00
Elaeis Guineensis (Palm) Oil	Lipovol® PAL/Lipo Chemicals	0.25
Olea Europaea (Olive) Fruit Oil	AC Olive Oil Clear/Active Concepts	0.50
Glyceryl Stearate	Lipo® GMS 450/Lipo Chemicals	2.00
Stearyl Alcohol	Rita SA/Rita Corp.	0.50
Butylene Glycol Dicaprylate/Dicaprate	Dermofeel® BGC/Dr. Straetmans	2.00
Zea Mays Ferment Extract	SilDerm® Zea Extract/Active Concepts	1.00
Dimethicone	DC 200/50/Dow Corning	1.00
Phase III		
Water	Water	2.00
Triethylamine	TEA 99%/Rita Corp.	0.20
Phase IV		
Water & Phospholipids & Tocopheryl Acetate & Retinyl Palmitate & Ascorbyl Palmitate	AC Vitamin ACE Liposome PF/Active Concepts	2.50
Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein	AC Plant Keratin PF /Active Concepts	1.00
Hydrolyzed Wheat Protein	AC DermaPeptide Tightening PF /Active Concepts	2.00
Water & Prunus Amygdalus Dulci (Sweet Almond) Seed Extract	AC DermaPeptide Lifting® PF/Active Concepts	2.00
Hydrolyzed Quinoa	ACB Quinoa Protein/Active Concepts	1.00
Lactobacillus/Salix Alba Bark Ferment Filtrate	Prorevive Blemish Balm Complex/Active Concepts	1.00
Lactobacillus Bifidus Lysate Extract	ACB Phyto-Biotics Bifidus/Active Concepts	5.00
Selaginella Lepidophylla Extract	Phytofuse Renew®/Active Concepts	1.00
Lactobacillus/Cocoa Fruit Ferment Filtrate	ACB Cocoa Bioferment PF /Active Concepts	5.00
Leuconostoc/Radish Root Ferment Filtrate & Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	Leucidal® Liquid Complete/Active Micro Technologies	4.00
Sodium Hydroxide	NaOH 25% Solution	0.30

Manufacturing Process:

- Phase I:** Charge water into main beaker and begin propeller mixing. A vortex should form. Sift in ABS Aloe Powder. Sift in D, L Panthenol. Charge Glucam™ E-20. Sift in Allantoin. Sift in Carbopol® Ultrez 10. Begin heating to 75°C.
- Phase II:** In a separate container mix ingredients and heat to 80°C. Once temperatures have been reached, add to Phase I. Continue mixing for 15 minutes.
- Phase III:** Begin force cooling. Pre-blend and add to main.
- Phase IV:** Add at 45°C.