



# Sample Formulations

# UV Hair Protection Spray

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water (Aqua)	81.88	Local
<b>Propanediol</b>	Propanediol	1.00	Formulator Sample Shop
<b>Xanthan Gum</b>	Xanthan Gum	0.12	Formulator Sample Shop
<b>FSS Tonka Bean Bioferment PF</b>	Lactobacillus/Dipteryx Odorata Seed Ferment Filtrate	2.00	Formulator Sample Shop
<b>FSS Phytofuse Renew®</b>	Selaginella Lepidophylla Extract	4.00	Formulator Sample Shop
Isostearamidopropyl Morpholine Lactate	Isostearamidopropyl Morpholine Lactate	1.00	Parchem
Cetiol® 767	PEG-6 Caprylic/Capric Glycerides	1.00	BASF
<b>FSS Keratin Amino Acids PF</b>	Keratin Amino Acids	1.00	Formulator Sample Shop
<b>Phase B</b>			
<b>Citric Acid</b>	Citric Acid (10%)	Q.S.	Formulator Sample Shop
<b>Leucidal® SF Complete</b>	Lactobacillus Ferment & Lactobacillus & Cocos Nucifera (coconut) Fruit Extract	4.00	Formulator Sample Shop

## Formulation Guidelines

1. Add xanthan gum to the propanediol. Mix Well.
2. Heat deionized water to 60°C.
3. Add xanthan gum/propanediol mixture. Allow to mix.
4. Add all the remaining ingredients individually with mixing.
5. Allow to cool while mixing.
6. Add Phase B. Allow to mix.
7. Adjust pH to 5.5 with a 10% Citric Acid solution if necessary.



All products should undergo stability testing and Microbial/Challenge Testing. These formulations are intended for use as starting formulas and may be altered as needed.

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# Environmental Defense Lotion

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water (Aqua)	42.40	Local
<b>Polysorbate 20</b>	Polysorbate 20	1.00	Formulator Sample shop
<b>Phase B</b>			
<b>Glycerin</b>	Glycerin	4.00	Formulator Sample Shop
<b>Xanthan Gum</b>	Xanthan Gum	0.20	Formulator Sample Shop
<b>Phase C</b>			
<b>C12-15 Alkyl Benzoate</b>	C12-15 Alkyl Benzoate	23.15	Formulator Sample Shop
TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	9.80	Kobo Products
<b>Phytomulse® Coconut</b>	Cetearyl Alcohol & Glyceryl Stearate & Coceth-20	3.45	Formulator Sample Shop
<b>AcquaSeal® Coconut</b>	Cocos Nucifera (coconut) Fruit Extract	0.50	Formulator Sample Shop
<b>Phase D</b>			
MSS-500W	Silica	3.00	Kobo Products
Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	1.00	Seppic



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# Environmental Defense Lotion (Cont.)

Trade Name	INCI Name	%	Vendor
<b>Phase E</b>			
FSS Phytofuse Rejuvenate®	Salvia Hispanica Seed Extract	2.00	Formulator Sample Shop
FSS Wakame Bioferment Advanced	Undaria Pinnatifida Cell Culture Extract	1.00	Formulator Sample Shop
FSS DermaPeptide Tightening PF	Hydrolyzed Wheat Protein	2.00	Formulator Sample Shop
FSS CytoPure PF	Crypthecodinium Cohnii Extract	2.50	Formulator Sample Shop
FSS Bio-Chelate VC	Ascorbic Acid/Orange/Citrus Limon/Citrus Aurantifolia Polypeptides	2.00	Formulator Sample Shop
<b>Phase F</b>			
Leucidal® SF Complete	Lactobacillus Ferment & Lactobacillus & Cocos Nucifera (coconut) Fruit Extract	2.00	Formulator Sample Shop

## Formulation Guidelines

1. Combine **Phase A** into main beaker and heat to 70°C.
2. In a separate container, combine **Phase B** ingredients into a slurry.
3. Add Slowly to **Phase A** while mixing.
4. Add **Phase C** to main beaker under homogenization.
5. In a separate container, combine **Phase D** ingredients and heat to 70°C.
6. Add **Phase D** to main beaker while cooling to 45°C.
7. Once cooled, add **Phase E** and **F** to main beaker.

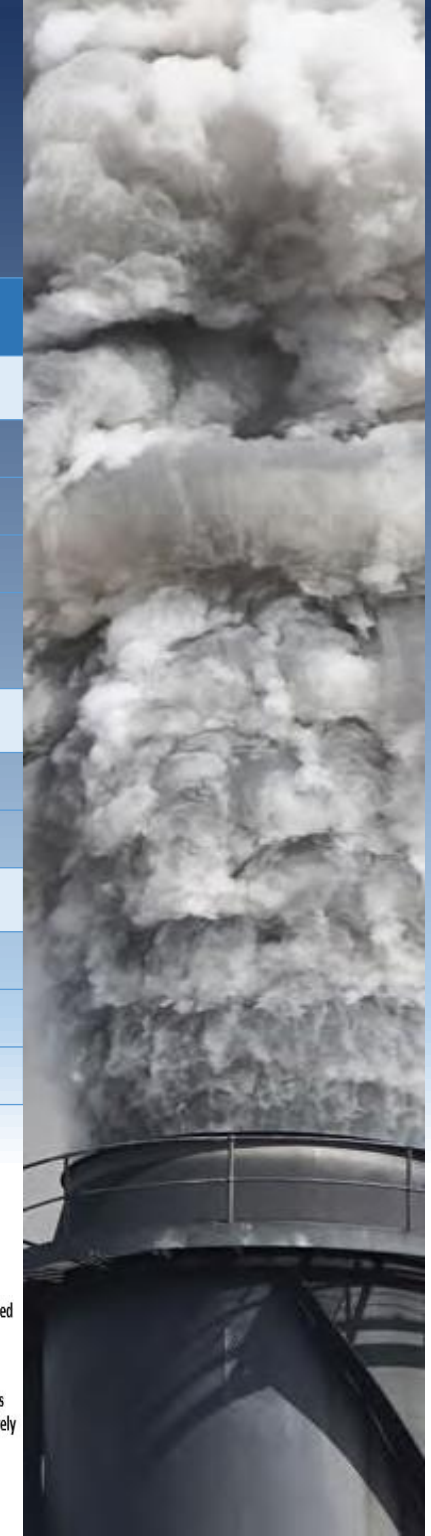


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# Restore & Protect Sulfate Free Shampoo



Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water (Aqua)	Q.S.	Local
<b>FSS Milk Hydrolysate SF</b>	Hydrolyzed Milk Protein	1.00	Formulator Sample Shop
<b>FSS Phytofuse Rejuvenate®</b>	Salvia Hispanica Seed Extract	2.00	Formulator Sample Shop
<b>FSS Kerazyme® Protect</b>	Hydrolyzed Keratin & Bambusa Arundinacea Leaf Extract & Trametes Versicolor Extract	5.50	Formulator Sample Shop
<b>Phase B</b>			
<b>Glycerin</b>	Glycerin	3.00	Formulator Sample Shop
<b>Xanthan Gum</b>	Xanthan Gum	1.00	Formulator Sample Shop
<b>Phase C</b>			
Wheat Germamidopropyl Betaine	Wheat Germamidopropyl Betaine	20.00	Mackam WGB
<b>FSS Foaming Soy PF</b>	Sodium Cocoyl Hydrolyzed Soy Protein	15.00	Formulator Sample Shop
Coco/Sunfloweramidopropyl Betaine	Coco/Sunfloweramidopropyl Betaine	10.00	Mackam WGB

# Restore & Protect Sulfate Free Shampoo (Cont.)



Trade Name	INCI Name	%	Vendor
<b>Phase D</b>			
FSS Keratin Hydrolysate 30 PF	Hydrolyzed Keratin	4.00	Formulator Sample Shop
FSS Silk Amino Acids PF	Silk Amino Acids	4.00	Formulator Sample Shop
FSS Yerba Santa Glycoprotein PF	Lactobacillus/Eriodictyon Californicum Ferment Extract	2.00	Formulator Sample Shop
Active.Lite® Hair	Polyquaternium-80 & Water & Pisum Sativum (Pea) Peptide & Selaginella Lepidophylla	5.00	Formulator Sample Shop
<b>Phase E</b>			
Leucidal® Liquid	Leuconostoc/Radish Root Ferment Filtrate	4.00	Formulator Sample Shop
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	4.00	Formulator Sample Shop
Citric Acid	Citric Acid	0.20	Formulator Sample Shop

## Formulation Guidelines

1. Mix and charge water into main beaker and begin propeller mixing. A vortex should form.
2. Charge remaining **Phase A** ingredients and begin heating to 70°C. Mix until homogenous.
3. Pre-mix **Phase B** ingredients then add to main beaker and mix until homogenous.
4. Switch to sweep mixing. At 75°C add each **Phase C** ingredient individually to the main beaker.
5. Allow each ingredient to disperse completely before adding the next. Begin force cooling.
6. At 50°C, add **Phase D** ingredients individually to the main beaker and mix until homogenous.
7. Once mixture is below 40°C add **Phase E** ingredients mixing thoroughly.
8. Adjust pH if necessary using Citric Acid solution.



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# Age Fighting Micellar Water

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water (Aqua)	72.25	Local
<b>Tetrasodium EDTA</b>	Tetrasodium EDTA	0.05	Formulator Sample Shop
<b>Glycerin</b>	Glycerin	3.00	Formulator Sample Shop
<b>Cocamidopropyl Betaine</b>	Cocamidopropyl Betaine (35%)	6.00	Formulator Sample Shop
<b>AMTicide® Coconut</b>	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	4.00	Formulator Sample Shop
<b>Leucidal® Liquid SF</b>	Lactobacillus Ferment	4.00	Formulator Sample Shop
<b>Phytofuse Renew®</b>	Selaginella Lepidophylla Extract	1.00	Formulator Sample Shop
<b>FSS Soluble Elastin 10 PF</b>	Hydrolyzed Elastin	2.00	Formulator Sample Shop
<b>FSS Pisum Sativum Peptide</b>	Pisum Sativum (Pea) Peptide	2.00	Formulator Sample Shop
<b>FSS Phyto-Biotics Bifidus</b>	Lactobacillus Bifidus Lysate Extract	5.00	Formulator Sample Shop
<b>Polysorbate 20</b>	<b>Polysorbate 20</b>	0.30	Formulator Sample Shop
<b>Polysorbate 80</b>	<b>Polysorbate 80</b>	0.30	Formulator Sample Shop
Fragrance or SuperScents		0.10	N/A
Sodium Hydroxide	Sodium Hydroxide (25%)	Q.S.	Spectrum Chemical

## Formulation Guidelines

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.



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