

# BioReNuva<sup>®</sup>

Biosurfactants For Beauty Care

## 2025 Formulary Catalog

### Personal Care

Volumizing Shampoo  
Creamy Shampoo  
Hand & Body Wash  
Oleogel Cleanser  
Gel Cream  
Fragrance Water

### Oral Care

Gentle Gum Cleanse  
Biofilm Toothpaste  
Gum Rinse

## Highlighting

- ReNuva™ SL-A70 (Sophorolipids)
- ReNuva™ SL-L70 (Sophorolipids)
- ReNuva™ RL-50 (Rhamnolipids)



### Washington Sheffield

Invented modern toothpaste

*Part of BioReNuva's  
Masters of Molecules Series*



# Volumizing High Foam Shampoo

Formula No. KP-0525-1

Phase	Ingredients	%	INCI	Function
A	Nansa LSS 495/H	10.00	Sodium C14-18 Olefin Sulfonate, Sodium Sulfate, Aqua	Surfactant
	Cola Teric CBS/HP	10.00	Aqua, Cocamidopropyl Hydroxysultaine	Surfactant
	Cola Teric CA-35	5.00	Aqua, Sodium Cocoamphopropionate	Surfacant
	ReNuva SL-A70	3.00	Glycolipids	BioSurfactant
	ReNuva RL-50	1.00	Glycolipids	BioSurfactant
	Polysuganat L-1010P	2.00	Aqua, Polyquaternium-78, Sodium Chloride	Conditioning Agent
	Blue Oolong Tea Fragrance	0.80	Parfum	Fragrance
	Natrlquest E-30	0.40	Aqua, Trisodium Ethylenediamine Disuccinate	Chelating Agent
	Biovolume 128	2.00	Aqua, Glycerin, Tilia Tomentosa Bud Extract, Sodium Benzoate, Potassium Sorbate, Citric Acid	Hair Volumizer
	DI Water	65.80	Aqua	Solvent
B	Citric Acid (20%)	q.s.	Citric Acid	pH Adjuster
C	Biocontrol Synergy Ice	1.00	Caprylyl Glycol, Ethylhexylglycerin, O-Crymen-5-OL	Preservative

Consistency: Thick, Viscous Gel    pH: 5.6    Viscosity: 18,600 mPas    Appearance: Translucent

## Procedure

1. Combine Phase A ingredients in main vessel, mix until uniform.
2. Adjust pH with Phase B to pH 5.6.
3. Add Phase C and mix until uniform.

Hair & Scalp  
Nourishing



Soft Lather

# Creamy Nourishing Shampoo

Formula No. KP-0525-2

Phase	Ingredients	%	INCI	Function
A	DI Water	Q.S.	Aqua	Solvent
	Amaze XT	0.50	Dehydroxanthan	Thickening Agent
B	DI Water	20.00	Aqua	Solvent
	Activsoft C-13	0.50	Guar Hydroxypropyl Trimonium Chloride, Aqua	Conditioning Agent
	Citric Acid (20%)	0.01	Citric Acid	pH Adjuster
	Cola Teric CA-35	5.00	Aqua, Sodium Cocoamphopropionate	Surfactant
	Cola Teric CBS/HP	13.00	Aqua, Cocamidopropyl Hydroxysultiane	Surfactant
C	ISELUX ICM1	11.00	Sodium Cocoyl Methyl Isethionate	Surfactant
	ReNuva RL-50	1.00	Glycolipids	BioSurfactant
	ReNuva SL-A70	2.00	Glycolipids	BioSurfactant
	Avocado Oil	1.00	Persea Gratissima (Avocado) Oil	Emollient
	Cetyl Alcohol	0.40	Cetyl Alcohol	Thickening Agent
D	Preservative	0.10	Various	Preservative
E	Citric Acid	q.s.	Citric Acid	pH Adjuster

Procedure

1. Add water to main vessel PHASE A and put under propeller mixing, sprinkle in Amaze XT and mix until fully hydrated. Begin heating.

2. In side vessel PHASE B, sprinkle in Activsoft and mix until dispersed well, add small amount of citric acid to help guar hydration.

3. Add PHASE C to PHASE A one by one, and add then PHASE B. Mix at 78-80C until fully dissolved.

4. Add PHASE D, mix until dissolved. Cool to below 50C and add PHASE E. Cool to RT with mixing and adjust pH if necessary.

Consistency: Flowable, Serum Like    pH: 6.40    Viscosity: 26,600 mPas    Appearance: Opaque

# Ready Hand & Body Wash

Formula No. MS-0425-4

Phase	Ingredients	%	INCI	Function
A	DI Water	71.20	Aqua	Solvent
	Clearogel SG	0.75	Sclerotium Gum	Thickening Agent
	Keltrol CG-SFT	0.75	Xanthan Gum	Thickening Agent
	MultiMoist CLR	3.00	Fructooligosaccharides Beta Vulgaris (Beet) Root Extract, Water	Humectant
	AnnonaSense CLR	3.00	Annona Cherimola Fruit Extract	Humectant
	Euxyl K712	1.00	Sodium Benzoate, Potassium Sorbate	Preservative
B	ReNuva Ready	20.00	Contact	BioSurfactant
	Sweet Escape 233206-A	0.30	Parfum	Emollient

**Consistency:** Homogeneous Wash Emulsion   **pH:** 7.5   **Viscosity:** 17,900 mPas

## Procedure

1. Hydrate Gum's in PHASE A.
2. Mix PHASE A.
3. Blend Parfum into ReNuva Ready.
4. Combine PHASE A with PHASE B.

Naturally  
Formulated



Rich  
Lather



Gel  
Texture



# Oleogel Cleanser

Formula No. JC-0525-1

Phase	Ingredients	%	INCI	Function
A	Glycerin USP	20.00	Glycerin	Humectant
	DI Water	5.00	Aqua	Solvent
	Sistema PS750-C	0.50	Sucrose Palmitate	Emulsifier
	ReNuva RL-50	3.00	Glycolipids	BioEmulsifier
	ReNuva SL-L70	1.00	Glycolipids	BioEmulsifier
B	Apricot Kernel Oil	30.00	Prunus Armeniaca (Apricot) Kernel Oil	Emollient
	Sunflower Oil	30.20	Helianthus Annuus (Sunflower) Seed Oil	Emollient
	Covi-ox T90 C	1.00	Tocopherol	Antioxidant
	Rose Hip Oil	9.30	Rosa Rubiginosa Seed Oil	Emollient

**Consistency:** Viscoelastic Self-Standing Gel    **pH:** 5.6    **Viscosity:** 29,900 mPas

## Procedure

1. Mix and heat to 75°C.
2. Add PHASE B to PHASE A dropwise (very slowly) while homogenizing at 3,000 rpm.
3. Once PHASE B has been completely added, allow to cool without agitation.



Anti  
Inflammatory



Nourishing &  
Moisturizing



High Oil  
Cleanser

# Gel Cream

Formula No. MS-0425-3

Phase	Ingredients	%	INCI	Function
A	DI Water	73.80	Water	Solvent
	Preservative	0.90	Phenoxyethanol	Preservative
	CefiraProtect CLR	3.00	Betaine, Isomalt, Lactobacillus Ferment Lysate, Kefiran	Skin Protectant
	Clearogel KG	1.00	Glucomannan	Thickening Agent
	ReNuva SL-L70	6.50	Glycolipids	BioEmulsifier
B	GSOLight	14.00	Vitis Vinifera (Grape) Seed Oil	Emollient
	Dermofeel Toco 70	0.50	Tocopherol, Helianthus Anus (Sunflower) Seed Oil	Antioxidant
	Tirta Empul 462595	0.20	Parfum	Fragrance
C	Citric Acid (20%)	q.s.	Aqua, Citric Acid	pH Adjuster

**Consistency:** Gel Cream, Non Greasy   **pH:** 6.0   **Texture:** Soft, Easily Absorbed

## Procedure

1. Water phase – Heat DI water to ~40°C, sprinkle in Clearogel KG; mix until hydrated.
2. Cool – Add phenoxyethanol, then CefraProtect CLR; mix uniform.
3. Oil phase – Warm GSOLight + Dermofeel Toco 70 to ~40°C, dissolve ReNuva SL-L70.
4. Emulsify – At ~70°C, high-shear (~3,000 rpm) the oil phase into the water phase; shear 3–5 min.



**Velvety**



**Glycolipid  
Rich**



**Plush  
Texture**

# Alcohol Free Fragrance Water

Formula No. MS-0425-1

Phase	Ingredients	%	INCI	Function
A	DI Water	95.50	Water	Solvent
	Party All Night 234345-C (LUZI Perfumes)	0.50	Parfum	Fragrance
	ReNuva SL-A70	3.00	Glycolipids	BioSolubilizer
B	EuxylPE9010	1.00	Phenoxyethanol, Ethylhexylglycerin	Preservative

Consistency: Water-Like

Comments: Efficient Solubility, Strong Bloom

## Procedure

1. Gently mix PHASE A.
2. Add PHASE B to PHASE A.

Scent  
Longevity



Nano  
Micelles



Intense  
Bloom



# Biofilm Busting Whitening Toothpaste

Formula No. NH-0425-2

Phase	Ingredients	%	INCI	Function
A	DI Water	9.96	Water	Solvent
	Glycerin (99.7%)	30.00	Glycerin	Humectant
	Sorbitex 71205 (70%)	20.00	Sorbitol, Water	Humectant/Sweetener
	Sodium Fluoride USP	0.24	Sodium Fluoride	Active/Anti-Cavity
	Xylitol (non-GMO)	5.00	Xylitol	Sweetener
	Sodium Gluconate	0.10	Sodium Gluconate	Chelating/Plaque
	Stevia P.E. (90%)	0.10	Stevia Rebaudiana Leaf Extract	Sweetener
B	Hombitan AFDC 101	0.30	Titanium Dioxide	Colorant
	Glycerin (99.7%)	5.00	Glycerin	Humectant
	Keldent	0.30	Xanthan Gum	Rheology
C	Zeodent 103	5.00	Hydrated Silica	Abrasive
	Zeodent 113	7.00	Hydrated Silica	Abrasive
	Zeodent 165	12.00	Hydrated Silica	Thickener
D	ReNuva SL-A70	3.00	Glycolipids	BioSurfactant
	ReNuva RL-50	1.00	Glycolipids	BioSurfactant
	Mint Flavor OS	1.00	Flavor	Flavor

## Procedure

1. Add water to the main vessel. Turn on mixing to low-medium speed. Add ingredients 2-7 one by one, mixing until dissolved. Once dissolved add ingredient 8, mix until smooth.
2. In small beaker, premix phase B. Mix with a spatula until a smooth slurry forms and clumps are gone.
3. Slowly add phase B to phase A. Turn up mixing speed to medium-high speed (>500rpm) until a smooth gel forms (gel may climb up agitator)
4. Wearing a respirator, add ingredients 11-12. Mix until clump free.
5. Wearing a respirator, add ingredient 13. Add in small increments, letting each addition mix in. Increase mixing speed as needed to ensure proper mixing throughout this step.
6. Decrease mixing speed to as low as possible while maintain good mixing, add ingredients 14-16. Once mixing is complete, vacuum to remove any air.
7. Check pH (between 6.5-8.5).



# Gentle Gum Gel

Formula No. NH-0425-1

Phase	Ingredients	%	INCI	Function
A	DI Water	10.65	Water	Solvent
	Glycerin (99.7%)	30.00	Glycerin	Humectant
	Sorbitol 71205 (70%)	25.00	Sorbitol, Water	Humectant/Sweetener
	Stevia P.E. (90%)	0.10	Stevia Rebaudiana Leaf Extract	Sweetener
	Xylitol (non-GMO)	5.00	Xylitol	Sweetener
B	Glycerin (99.7%)	9.00	Glycerin	Humectant
	Keldent	0.50	Xanthan Gum	Rheology
C	Zeodent 116	5.00	Hydrated Silica	Abrasive
	Zeodent 165	11.00	Hydrated Silica	Thickener
D	ReNuva SL-A70	3.00	Glycolipids	BioSurfactant
	Gentle Mint Flavor OS	0.75	Flavor	Flavor

## Procedure

1. Add water to the main vessel. Turn on mixing to low-medium speed. Add ingredients 2-5 one by one, mixing until dissolved.
2. In a small beaker, premix phase B. Mix with a spatula until a smooth slurry forms. Slowly add phase B to phase A. Turn up mixing speed to medium-high speed (>500rpm) until a smooth gel forms (gel may climb up agitator).
3. Wearing a respirator, add ingredient 8. Mix until clump free.
4. Wearing a respirator, add ingredient 9. Add in small increments, letting each addition mix in. Increase mixing speed as needed to ensure proper mixing throughout step.
5. Decrease mixing speed to as low as possible while maintain good mixing, add ingredients 10-11.
6. Once mixing is complete, vacuum batch to remove any air.
7. Check pH (between 6.5-8.5).

# Moisturizing Gum Rinse

Formula No. NH-0425-3

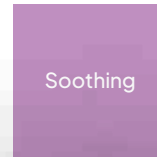
Phase	Ingredients	%	INCI	Function
A	DI Water	91.40	Water	Solvent
	Aloe Vera 200x Powder	0.05	Aloe Barbadensis Leaf Juice	Solvent
	Sorbitex 71205 (70%)	2.00	Sorbitol, Water	Humectant
	Xylitol (non-GMO)	1.00	Xylitol	Humectant/Sweetener
	Stevia P.E. (90%)	0.05	Stevia Rebaudiana Leaf Extract	Sweetener
B	ReNuva SL-A70	5.00	Glycolipids	Sweetener
	Gentle Mint Flavor OS/WS	0.50	Flavor	BioSolubilizer Flavor

## Procedure

1. Add water to the main beaker and turn on mixing to low-medium setting.
2. Add ingredients 2-5 and mix until dissolved
3. In a separate beaker add phase B and mix until combined. Slowly add phase B to phase A in a slow but steady stream.
4. Mix until fully combined and solution runs clear



Healthy  
Oral Biome



Soothing



Moisturizing

# BioReNuva

BioReNuva pioneers biotech beauty ingredients. Using advanced metabolic engineering and precision fermentation we re-program yeast and bacterial strains to over-produce ultra-pure bio-surfactants, bio-emulsifiers and bio-solubilizers.

Our glycolipids deliver low-color, low-odor, skin-safe cleansing, superior emulsification, natural solubility and clinically proven moisturization & sebum control while cutting carbon footprint vs. petro ingredients. From lab-bench insight to scaled supply, we arm formulators with data, application concepts, and real-world performance.

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