

BioReNuva®

Biosurfactants For Beauty Care

2025 Formulary Catalog

Personal Care

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

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

BioReNuva®

Contact info@biorenuva.com for prototype samples

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	Surfactant
	ReNuva SL-A70	3.00	Glycolipids	BioSurfactant
	ReNuva RL-50	1.00	Glycolipids	BioSurfactant
	Poly Suga®Quat 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
B	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-0525-3

BioReNuva[®]

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Phase	Ingredients	%	INCI	Function
A	DI Water	Q.S.	Aqua	Solvent
	Amaze XT	0.60	Dehydroxanthan	Thickening Agent
B	Cola®Teric CA-35	5.00	Aqua, Sodium Cocoamphopropionate	Surfactant
	Cola®Teric CBS/HP	13.00	Aqua, Cocamidopropyl Hydroxysultiane	Surfactant
	ReNuva RL-50	1.00	Glycolipids	Biosurfactant
	ReNuva SL-A70	2.00	Glycolipids	Biosurfactant
	Avocado Oil	1.00	Persea Gratissima (Avocado) Oil	Emollient
C	ISELUX ICM1	11.00	Sodium Cocoyl Methyl Isethionate	Surfactant
	Cetyl Alcohol	0.30	Cetyl Alcohol	Thickening Agent
D	Poly Suga® Quat L-1010P	3.00	Water, Polyquaternium-78, Sodium Chloride	Conditioning Agent
	Preservative	0.10	Various	Preservative
E	Liquid Santal Mod 1	0.80	Fragrance	Fragrance
F	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.
2. Begin heating and add Phase B ingredients one by one into the batch. Once at 60C, add PHASE C, continue heating to 70-75C and mix until fully dissolved.
3. 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:** 6.20 **Viscosity:** 2,527 mPas **Appearance:** Opaque

Ready Hand & Body Wash

Formula No. MS-0425-4

BioReNuva®

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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

BioReNuva®

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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

BioReNuva®

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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

BioReNuva®

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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



Creamy Serum

Formula No. JC-0825-1

BioReNuva®

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Phase	Ingredients	%	INCI	Function
A	DI Water	76.65	Water	Solvent
	SynerShield Pro	1.00	Sericin, Beta-Glucan, Gluconolactone, Sodium Benzoate	Antioxidant
	Hydrolite 5 Green	3.00	Pentylene Glycol	Humectant
B	Glycerin (99.7%)	3.00	Glycerin	Humectant
	Carbopol Ultrez 10	0.15	Carbomer	Thickener
	ESP A+ Powder	0.30	Aloe Barbadensis Leaf Juice, Algin	Emollient
	Creagel Powder	0.40	Sodium Polyacrylate	Thickener
	Betaine Genencare OSMS BA	2.00	Betaine	Humectant
C	Evermild L-ARG	0.25	Arginine	Hydraion
	Preservative	2.25	Various	Preservative
	Fluidifeel Easy	1.00	Lauryl Glucoside, Myristyl Glcoside, Polyglyceryl-6 Laurate	Emulsifier
	ReNuva SL-A70	2.00	Glycolipids	Biosurfactant
D	Watermelon Seed Oil- Virgin	3.00	Citrullus Lanatus Seed Oil	Emollient
	Argan Oil	2.00	Argania Spinosa Kernel Oil	Emollient
	Pelemol IN-2	2.00	Isononyl Isononanoate	Emollient
E	Soft Milk 10 Argan	1.00	Argania Spinosa Kernel Oil, Glycerin, Glyceryl Steratate, Phosphpholipids, Xantahn Gum, Sodium Cocoyl Glutamate	Emollient

Procedure

1. Add PHASE A to the main vessel. Homogenize at 3,000 rpm for 10 minutes and begin adding/mixing PHASE B.

2. Mix at moderate speed until homogeneous.

3. Add PHASE C and continue mixing.

3. Add PHASE D to a vessel and mix until combined. Add PHASE E to main vessel while mixing.

4. Add PHASE F and mix until incorporated.

Biofilm Busting Whitening Toothpaste

Formula No. NH-0425-2

BioReNuva®

Contact info@biorenuva.com for prototype samples

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

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Phase	Ingredients	%	INCI	Function
A	DI Water	10.65	Water	Solvent
	Glycerin (99.7%)	30.00	Glycerin	Humectant
	Sorbitex 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

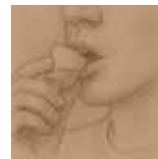
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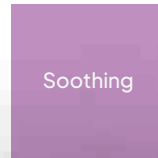
Phase	Ingredients	%	INCI	Function
A	DI Water	91.40	Water	Solvent
	Aloe Vera 200x Powder	0.05	Aloe Barbadensis Leaf Juice	Solvent
	Sorbitex 71205 (70%)	2.00	Sorbitol, Water	Humectant
	Xylitol (non-GMO)	1.00	Xylitol	Humectant/Sweetener
	Stevia P.E. (90%)	0.05	Stevia Rebaudiana Leaf Extract	Sweetener
B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

Procedure

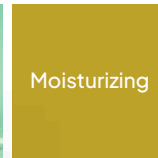
1. Add water to the main beaker and turn on mixing to low-medium setting.
2. Add ingredients 2-5 and mix until dissolved
3. In a separate beaker add phase B and mix until combined. Slowly add phase B to phase A in a slow but steady stream.
4. Mix until fully combined and solution runs clear



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.

Contact Us: info@biorenuva.com

