



# COCONUT INGREDIENTS

CLEAN · GREEN · SUSTAINABLE



# Coco Surfactant

100% coconut-derived surfactants that deliver excellent cleansing property with proven mildness for home, personal and institutional products.



## SULFATE-FREE CLEANSERS PRIMARY SURFACTANTS



### SUFRAVON 820

Potassium Cocoate (and)  
Potassium Palmitate  
Home Care Formulations

### SUFRAVON 874

C12 - C18 Potassium Soap  
Home Care Formulations

### SUFRAVON 890

Potassium Cocoate (and)  
Potassium Oliviate  
Personal Care Formulations

### SUFRAVON 840GV2

Potassium Cocoate (C12 - C18)  
Home Care Formulations

### SUFRAVON 868/869

Potassium Cocoate  
Personal/Home Care Formulations

### SUFRAVON 875

Potassium Laurate  
Personal Care Formulations



## FOAMIER SOLUTIONS

FOAM BOOSTER

### SUFRAMIDE 307

Cocamide Methyl MEA (CMMEA)  
80% Active, Nitrosamine-free  
EO-free, DEA-free

### SUFRAMIDE 301/300/305

Cocomonoethanolamide (CMEA)  
85-95% Active, Nitrosamine-free  
EO-free, DEA-free

### SUFRAMIDE 1050

Coco MIPA  
100% Active, Nitrosamine-free  
EO-free, DEA-free, MEA-free

### SUFRAMIDE 182/190/191

Cocodiethanolamide (CDEA)  
82-90% Active  
EO-free

## MILD WASHES

WIDE PH RANGE SURFACTANTS

### SUFRASOFT CB30

Cocamidopropyl Betaine, 30%

### SUFRASOFT A0100

Cocamidopropylamine Oxide

### SUFRASOFT A0250

Cocamine Oxide

### SUFRASOFT CB140

Cocamidopropyl Betaine, 30%  
(C12-C18)

### SUFRASOFT A0200

Lauramine Oxide

# Coco Functional Ingredients

Expertly customized functional ingredients that enhance product quality and appearance to achieve aesthetically pleasing sensory qualities and remarkable results.

## SPECIAL FEATURES

- Cold-processable
- Compatible with a wide range of surfactants
- Allergen-free and non-GMO
- Enhances the luxurious feel of formulations



### GLYSOFT RG

Refined Glycerin  
100% Coconut-derived glycerin

### PEARLUX PB

Cold-processable  
pearlizing agent

### EMULSIER GMS 100/200

Glyceryl Stearate  
Low HLB emulsifier

### GLYSOFT SF

Cocoglycerides  
Superfating and superior  
thickening agent

### PEARLUX EGDS

Glycol Distearate  
Superior pearling agent compatible  
with a wide range of surfactants

### EMULSIER GML

Glyceryl Laurate  
Coconut-derived emulsifier

### NEOSOFT SD/CD

Stearamidopropyldimethylamine Lactate /  
Cocamidopropyldimethylamine Lactate  
Cationic surfactant as a conditioning  
agent in hair care products



Talk to our experts:  
[info@natura-aeropack.com](mailto:info@natura-aeropack.com)  
[www.natura-aeropack.com](http://www.natura-aeropack.com)



Learn more about our  
sustainable ingredients

Natura Aeropack Corporation

# Coco Emollients

## PETROLEUM-FREE MOISTURIZER

Naturally-derived skin protecting and caring intermediate products.  
Smoothens and moisturizes the skin resulting in lower transepidermal water loss.

### Cocolatum



SKIN PROTECTANT

Natural and petroleum-free, helps retain skin moisture.  
Use as an ointment to help treat rashes, eczema and other related skin disease.

**COCOLATUM 501**

For intense moisturization

**COCOLATUM 503**

100% plant-derived for intense moisturization

### Glyzer CB100



COCONUT BUTTER

Natural coconut butter for intensive moisturization.  
Can be used for skin care and hair care products like body butter, body wash, hair conditioner, lip balm, etc.

### Glyzer CT



COCO MCT

Helps maintain skin moisture, resulting in a more supple and healthy appearance. Additionally, it is an effective carrier for UV filters and pigments in skincare and cosmetics products.

**GLYZER CT100**

Light emollient

**GLYZER CT200**

Medium-spreading emollient

**GLYZER CT500**

UV filter dispersing agent and solubilizer

**GLYZER CT600**

Excellent fragrance carrier

## COCOLATUM SKIN PROTECTANT

PRODUCT	INCI NAME	APPLICATION
COCOLATUM 501	Cocoglycerides, <i>Cera alba</i> (Beeswax), <i>Euphorbia cerifera</i> (Candelilla) Wax	Moisturizer, Ointment, Lubricant, Hand Balm, Body Butter
COCOLATUM 503	Cocoglycerides (and) <i>Oryza sativa</i> (Rice) Bran Wax (and) <i>Euphorbia cerifera</i> (Candelilla) Wax	Moisturizer, Ointment, Lubricant

## GLYZER CT SKIN CARE EMOLLIENTS

PRODUCT	INCI NAME	APPLICATION
GLYZER CT100	Caprylic/Capric Triglyceride	Baby Oil, Face Oil, Beauty Elixir
GLYZER CT200	Caprylic/Capric/Lauric Triglyceride	Light Body Oil, Massage Oil
GLYZER CT500	Modified Cocoglycerides	UV Filter and Pigment Solubilizer
GLYZER CT600	Tricaprylin	Essential oil and Fragrance Carrier

## GLYZER CB SKIN MOISTURIZER

PRODUCT	INCI NAME	APPLICATION
GLYZER CB100	<i>Cocos nucifera</i> (Coconut) Seed Butter	Body Butter, Body Wash, Hair Conditioner, Lip Balm

# Coco Actives

## PLANT-BASED ACTIVE INGREDIENTS

Earth-conscious ingredients that are proven to be effective in solving challenges in skin care, hair care, and home care.

PRODUCT	INCI NAME	APPLICATION
SUFRAQUAT FS50I	Dialkylester Ammonium Methosulfate	Fabric Softener (cost-efficient, easy to disperse)
SUFRAQUAT FS100I	Dialkylester Ammonium Methosulfate	Fabric Softener (excellent softening property)
SUFRAQUAT FS200I	Dialkylester Ammonium Methosulfate	Fabric Softener (improves the viscosity significantly)
SUFRAQUAT BK80	Benzalkonium Chloride (80% Active)	Cleaning facilities, equipment, and surfaces
SUFRAQUAT BK50	Benzalkonium Chloride (50% Active)	Cleaning facilities, equipment, and surfaces
NATPRO 8000	Glyceryl Caprylate, Glyceryl Caprate, Glyceryl Laurate	Natural Preservative (Broad-Spectrum)



More than a factory  
**A green philosophy**  
Game changing facilities  
**Towards carbon neutral**

# Coco Specialty Bases

## Ecopure

### RINSE OFF | SULFATE-FREE SYSTEM

Naturally-derived surfactant system with good cleaning and foaming ability. It has excellent rinsing ability, reducing build-up that causes growth of harmful microorganisms. Mild, safe to use, and environmentally-friendly.

PRODUCT	INCI NAME	FUNCTION
ECOPURE SB10	Potassium Cocoate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin (and) Cocoglycerides	Mild Soap Base
ECOPURE SB20	Potassium Cocoate (and) Lauryl Glucoside (and) Glycerin (and) Cocoglycerides	Tear-free Soap Base
ECOPURE SB30	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate	Clear Soap Base for Personal Care
ECOPURE SB30P	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate (and) Glycol Distearate	Pearlized Soap Base for Personal Care
ECOPURE SB40	Potassium Cocoate (and) Cocamide MEA (and) Sodium Citrate	Soap Base for Home Care
ECOPURE SB50	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Stearamidopropyl Dimethylamine Lactate (and) Cocoglycerides	High Foaming Soap Base
ECOPURE LP10	Cocamidopropyl Betaine (and) Glycerin (and) Stearamidopropyl Dimethylamine Lactate	Low pH Surfactant Base
ECOPURE WP20*	Cocamide MEA (and) Lauramine Oxide	Wide pH Surfactant Base
ECOPURE CMB100/200	Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin	Concentrated Foam-boosting Surfactant

### LEAVE ON | COLD PROCESSABLE EMULSION BLEND

Easy to use emulsion concentrates for creams and lotions. Provides extra moisture to smoothen the skin.

PRODUCT	INCI NAME	FUNCTION
ECOPURE LE*	Caprylic/Capric Triglyceride (and) Glyceryl Stearate (and) PEG-100 Stearate	Light Cream Base
ECOPURE HE*	<i>Cocos nucifera</i> (Coconut) Seed Butter (and) Glyceryl Stearate (and) PEG-100 Stearate	Heavy Cream Base

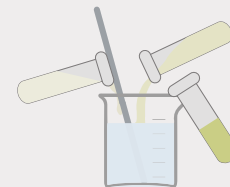
#### PROCEDURE



Recommended dosage: 30-40%  
\*ECOPURE WP20, LE, HE recommended dosage: 10-25%



Add water



#### Add

Preservatives: 0.1-1.0%  
Fragrance: 0.1-1.0%  
Thickener: 0.5-5.0%

1

2

3

# Cocolatum

## Moisturizing Skin Protectant



Extra moisturizing

Does not build up on skin

With natural antibacterial property



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

# Cocolatum

## Moisturizing Skin Protectant

### Cocolatum 501

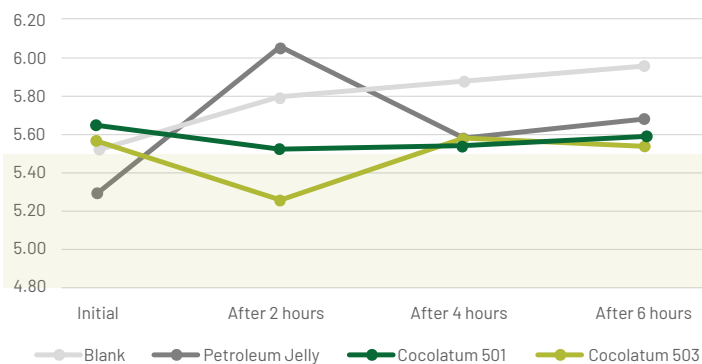
Cocoglycerides (and) *Cera alba* (Beeswax)  
(and) *Euphorbia cerifera* (Candelilla) Wax

### Cocolatum 503

Cocoglycerides (and) *Euphorbia cerifera*  
(Candelilla) Wax (and) *Oryza sativa* (Rice) Bran Wax

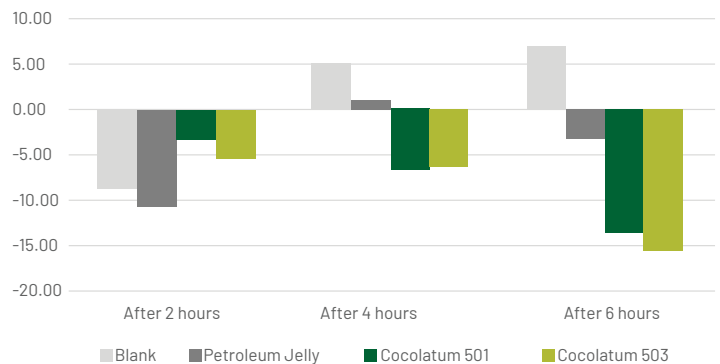


### SKIN pH



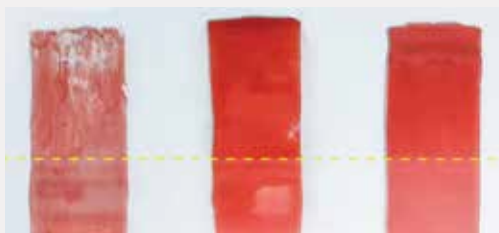
The graph above shows Cocolatum 501 and Cocolatum 503 have lowered the skin pH to the range of 4.7 to 5.75, which is the optimal pH of the skin.

### ERYTHEMA (REDNESS OF SKIN)



Increasing erythema value indicates skin irritation. The graph above shows that Cocolatum 501 and 503 can lower the erythema (redness) of the skin.

### WASHING OFF ABILITY

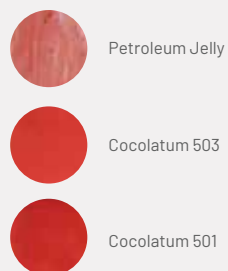


Petroleum Jelly      Cocolatum 501      Cocolatum 503

The panel was immersed in a surfactant solution for 24 hours. The Cocolatum 503 sample washed off the panel most easily.

### COLOR DISPERSION

INCREASING DISPERSING ABILITY



### SPREADABILITY



Petroleum Jelly      Cocolatum 501      Cocolatum 503

The samples were applied to the filter paper and left to spread for 5 minutes. Cocolatum 501 and 503 have good spreading ability against petroleum jelly.

### SAMPLE FORMULATION EGG LIP BALM

MATERIALS	INCI NAME	%
Cocolatum 503	Cocoglycerides (and) <i>Euphorbia cerifera</i> (Candelilla) Wax (and) <i>Oryza sativa</i> (Rice) Bran Wax	89.40
Candelilla Wax	<i>Euphorbia Candelilla wax</i>	6.00
Cetyl Alcohol	Cetyl Alcohol	2.00
Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	1.00
Strawberry flavor	Flavor	0.50
Cream flavor	Flavor	0.50
Vitamin E Acetate	Tocopheryl Acetate	0.50
Red 6 Lake	CI 15850	0.10
		<b>TOTAL: 100</b>

#### PROCEDURE

Load Cocolatum 503, Candelilla wax, Cetyl Alcohol and Glyzer CT200 into a single vessel and heat. Continuously stir during melting until temperature reaches 65°C to 70°C and until appearance becomes homogeneous. Cool down to 40°C. Add in the flavors and colorants and continuously stir until homogeneous and no lumps of pigment remain.

#### PHYSICAL APPEARANCE

Appearance	Soft solid balm
Color	Pink



# Clyzer CT

## Coconut Light Emollients



Light and non-tacky

Mild and moisturizing

Excellent UV filter and pigment dispersant



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

# Glyzer CT

## Coconut Light Emollients



**Glyzer CT** is a range of natural emollients derived from sustainable coconut oil that is readily biodegradable. Each emollient is a good substitute for cyclic siloxanes which possess environmental and health issues. **Glyzer CT** contains Lauric acid that is known for its good antimicrobial property. The range can be used in leave-on personal care products as emollient for cream and lotion, and as replacement for petroleum-derived mineral oil.



Dermatologically tested as mild and gentle



Derived from natural and sustainable raw materials




Has natural antibacterial property due to Lauric acid



Mild and light, suitable for dry and oily skin

### PHYSICO-CHEMICAL PROPERTIES

BRAND NAME	INCI NAME	DESCRIPTION
Glyzer CT600	Tricaprylin	Essential oil and fragrance carrier
Glyzer CT100	Caprylic/Capric Triglyceride	Light spreading emollient
Glyzer CT200	Caprylic/Capric/ Lauric Triglyceride	Medium spreading emollient with Lauric acid
Glyzer CT500	Cocoglycerides	UV filter solubilizer and pigment dispersing agent 

### APPLICATION PROPERTIES

#### SMOOTHENING AND REPAIRING PROPERTY

BEFORE APPLICATION



AFTER APPLICATION



The damaged hair strand has open hair cuticles resulting in rough texture. Upon application of **Glyzer CT100**, the strands became smooth keeping hair cuticles intact.

#### IMPROVING HAIR SHINE

BEFORE APPLICATION

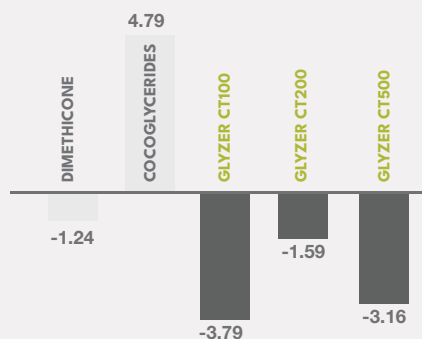


AFTER APPLICATION



**Glyzer CT200** improves the shine of the hair strands, leaving a thin film on each strand.

#### TRANSEPIDERMAL WATER LOSS

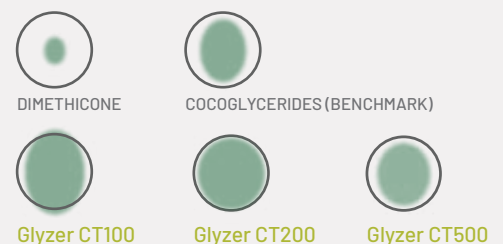


A negative change in TEWL value means a decrease in the amount of water loss by the skin, indicative of better moisture retention by use of **Glyzer CT**.

**Glyzer CT** range has better moisturizing property than Dimethicone and Cocoglycerides.

**Glyzer CT100** has the most decrease in TEWL, hence, the best moisturizing emollient.

#### SPREADABILITY



Among all the samples, **Glyzer CT100** has the best spreading ability, followed by **Glyzer CT200**

# Glyzer CB100

Coconut Butter



Mild and moisturizing

Melts on the skin

Light colored and odorless



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

# Glyzer CB100

## Coconut Butter

Natural coconut butter for intensive moisturization. Can be used for skin care and hair care products like body butter, body wash, hair conditioner, lip balm, etc.



### MOISTURIZING

Lowers transepidermal water loss of the skin



### NATURAL

Coconut-derived emollient



### LIGHT COLOR

Does not affect the color of the end product



### FRAGRANCE FREE

No coconut smell



### NON-TACKY

Stays on top of the skin and non-greasy

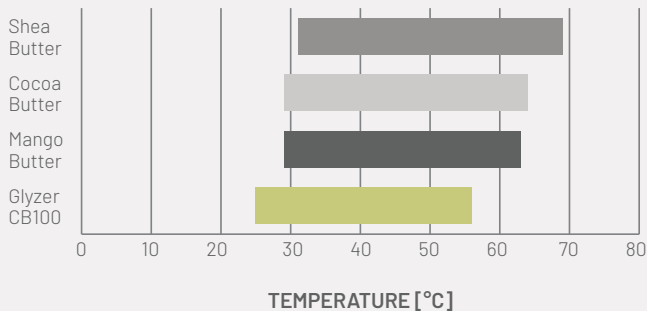


### MELTS ON SKIN

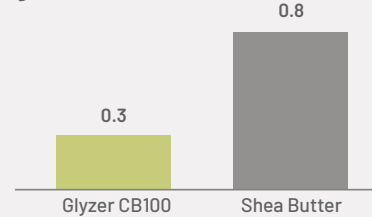
Low melting point, closer to body temperature

## PHYSICO-CHEMICAL PROPERTIES

### MELTING POINT RANGE



### TEWL/MEASUREMENT



The lower the TEWL value, the better the skin's ability to hold moisture.

Glyzer CB100 has lower melting point than the rest of the samples. It is also closer to body temperature which means it can be easily spread on skin and will impart less greasy feel.

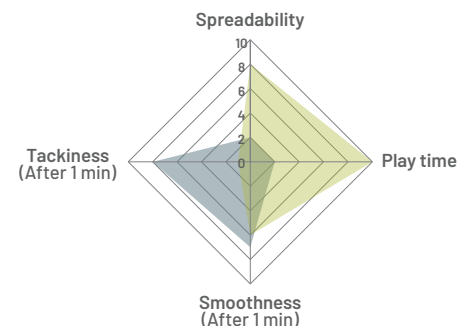
Lotion with Glyzer CB100 has lower TEWL than the lotion with Shea Butter. This means that Glyzer CB100 can improve skin's ability to retain moisture.

## FORMULATION

	INGREDIENTS	INCI NAME	FUNCTION	%
Phase A	Demineralized Water	Aqua	Diluent	q.s to 100
	Chelating Agent	Methylglycinediacetic Acid	Chelating Agent	0.10
Phase B	<b>Glysoft RG</b>	Glycerin	Humectant	5.00
	Polymer Thickener	Sodium Acrylates Copolymer (and) Lecithin	Rheology Modifier	1.00
Phase C	Gum	Xanthan Gum	Rheology Modifier	0.50
	<b>Glyzer CB100</b>	<i>Cocos nucifera</i> (Coconut) Seed Butter	Emollient	5.00
	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	2.00
	<b>Glyzer CT200</b>	Caprylic / Capric / Lauric Triglycerides	Emollient	10.00
Phase D	Emulsifier System	Glyceryl Stearate Citrate, Polyglycerol Polyricinoleate, Sorbitan Isostearate, Triethylhexanoin	Emulsifier	1.00
	Vitamin E	Tocopheryl Acetate	Antioxidant	0.10
	Fragrance		Fragrance	0.20
	Preservative	Phenoxyethanol (and) Ethylhexylglycerin	Preservative	0.80
	Lactic Acid	Lactic Acid	pH Modifier	q.s

## SENSORY EVALUATION

### GLYZER CB100 VS. SHEA BUTTER



■ Body Lotion (with Shea Butter)  
■ Body Lotion (with Glyzer CB100)

### PROCEDURE

In two separate containers, mix all ingredients under Phase A and Phase B.  
Combine Phase A and B and heat to 70°C.  
In a separate vessel, heat Phase C to 70°C.  
Once fully melted, add Phase C to Phase AB, and cool down to 40°C.  
At 40°C add Phase D to Phase ABC.

# Sufravon

Plant-based Cleansing Surfactant



Sulfate-free

Moisturizing

Non-irritating



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.



# Sufravon

## Plant-based Cleansing Surfactant

### PRIMARY SURFACTANT | ANIONIC SURFACTANT

Sufravon functions as a primary or secondary surfactant - making it an excellent component in personal care and homecare formulations.



### APPLICATIONS

- Baby Soap
- Shampoo
- Liquid Body Soap
- Hand Soap
- Homecare Formulation



Exceptional foaming & cleansing properties



Compatible with a wide range of surfactants



Easy to rinse, less water usage



Excellent stain removing property

### HAIR QUALITY

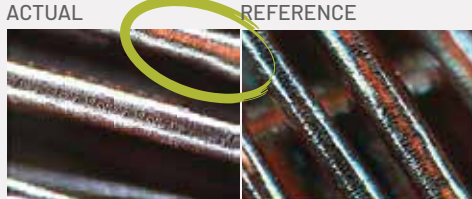
#### SUFRAVON 869



Hair Cuticle Results



#### SLES



Hair Cuticle Results



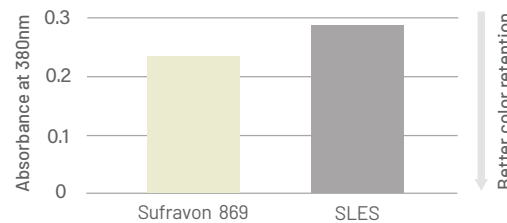
**Results:** A healthier hair cuticle was detected when treated with a 10% active solution of **Sufravon 869** than SLES. The encircled part indicates that the hair cuticle was damaged by applying SLES solution.

### SUFRAVON VARIANTS

PRODUCTS	SUFRAVON 820	SUFRAVON 840GV2*	SUFRAVON 874*	SUFRAVON 868*
INCI Name	Potassium Cocoate (and) Palmitate	Potassium Cocoate (C12 - C18)	C12 - C18 Potassium Soap	Potassium Cocoate
Main Composition	Coconut Oil (and) Palm Oil	Fractionated Coconut Oil	Coconut Oil (C12 - C18)	Coconut Oil
pH	9 - 11	10 - 11	9.5 - 10.5	9.5 - 10.5
Applications	Home Care	Home Care	Home Care	Home Care, Personal Care

PRODUCTS	SUFRAVON 869*	SUFRAVON 890*	SUFRAVON 875
INCI Name	Potassium Cocoate	Potassium Cocoate (and) Oliviate	Potassium Laurate (High Lauric Acid)
Main Composition	Coconut Oil	Coconut Oil (and) Olive Oil	Coconut Oil
pH	7.5 - 8.5	9 - 11	9.5 - 10.5
Applications	Personal Care, Baby Care, Pet care	Personal Care, Baby Care, Pet Care	Personal Care

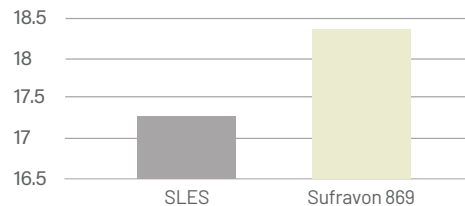
### HAIR SHAMPOO EVALUATION: HAIR COLOR RETENTION BURGUNDY SHADE



**Blank:** 10% active of surfactant sample  
**Procedure:** Color treated hair tress was submerged in the solution for 10 minutes. Then the UV absorbance of the rinsate was measured using UV-Vis Spectrophotometer

The rinsate with SLES has higher absorbance than the rinsate with **Sufravon 869**. This means that **Sufravon 869** can improve hair color retention better than SLES.

### FOAM HEIGHT (CM) VS SLES



**Surfactant Actives:** 2% CDEA, 10% Betaine, 12% Test Sample (active content)

Foam height of **Sufravon 874** is better than SLES.



# Sufrasoft AO

Amine Oxide Surfactant

Excellent foam booster

Viscosity builder

Wide pH range



# Sufrosoft AO

Amine Oxide Surfactant



## AMPHOTERIC FOAM BOOSTER & VISCOSITY BUILDER

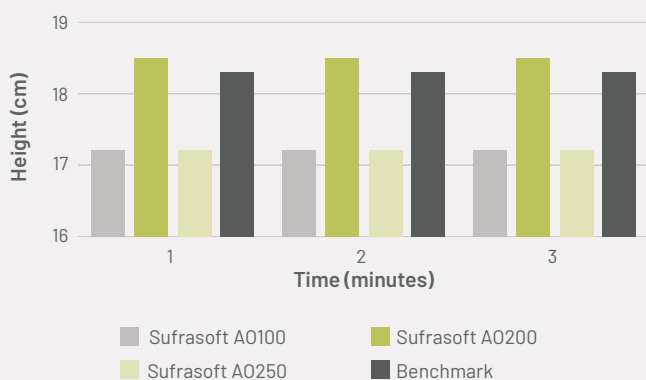
**Sufrosoft** is a coconut-derived amphoteric surfactant with excellent foam boosting and viscosity building ability even in hard water. It can be used in a wide range of pH and is compatible with all types of surfactants, making it ideal for both personal and home care applications.

VARIANT	INCI NAME	RECOMMENDED DOSAGE
SUFRASOFT A0100	Cocamidopropylamine Oxide	0.5% - 15.0%
SUFRASOFT A0200	Lauramine Oxide	0.5% - 15.0%
SUFRASOFT A0250	Cocamine Oxide	0.5% - 15.0%

## FORMULATION COMPATIBILITY

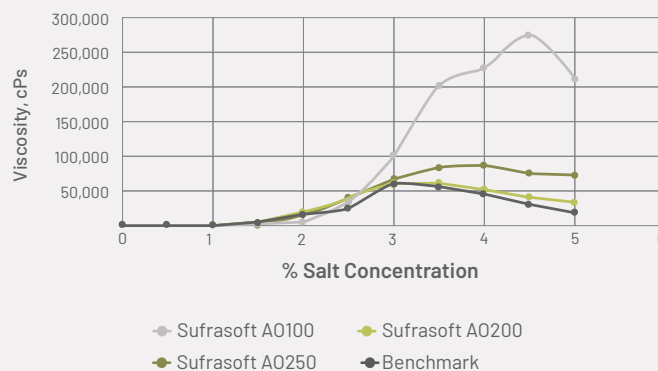
VARIANT	ACID STABLE	ALKALI STABLE	HYDROGEN PEROXIDE COMPATIBLE	SODIUM HYPOCHLORITE COMPATIBLE
Sufrosoft A0100	✓	✓	✓	
Sufrosoft A0200	✓	✓	✓	✓
Sufrosoft A0250	✓	✓	✓	✓

## FOAM HEIGHT (1% SOLUTION)



**Sufrosoft A0200** has the highest foam among all the samples. Stable foam height was observed for all the samples tested.

## SALT CURVE PROFILE



The system with **Sufrosoft A0100** has the highest viscosity with the addition of 4.5% of salt. Second to the highest is **Sufrosoft A0250**, while **Sufrosoft A0200** and the benchmark samples are comparable.



# Neosoft

Cationic Conditioning Surfactant

Does not build up  
on hair

Reduces hair static

Compatible with a wide  
range of surfactants



# Neosoft

## Cationic Conditioning Surfactant

Neosoft is a plant-based hair conditioning active. It is a cold-processable conditioning active for hair conditioner, conditioning shampoo and hair mask formulations. Delivered in liquid form for easy addition in the formulation.



### PHYSICO-CHEMICAL PROPERTIES

BRAND	INCI NAME	SOURCE	DOSAGE	% ACTIVE
Neosoft SD	Stearamidopropyl Dimethylamine Lactate	Palm	2 - 10 %	20% min
Neosoft CD	Cocamidopropyl Dimethylamine Lactate	Coconut	0.5 - 5 %	90% min

**SMOOTHENS HAIR**  
Lessens hair static & makes hair more manageable

**NO BUILD UP**  
Easy to remove with shampoo and does not build up on hair & scalp

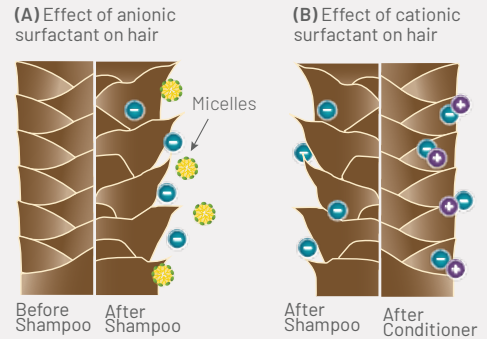
**EASY TO USE**  
Liquid at room temperature and water soluble

**TREATS HAIR**  
Closes hair cuticle for more tamed hair shaft

**FRAGRANCE-FREE**  
Odorless  
*\*Neosoft SD only*

**NON-TACKY**  
Light & non-greasy. Does not weigh hair down

### MECHANISM OF ACTION



The effect of anionic and cationic surfactants on the hair cuticle.

(A) Anionic surfactants in shampoo may cause the hair cuticles to slightly open, this is due to the surplus of negative charges generating static electricity leading to frizz and friction.

(B) Cationic surfactant (**Neosoft CD**) releases a positive charge that neutralizes the negative charge on the hair cuticle forming a neutral, hydrophobic, cationic-anionic complex. This reduces the static electricity and relaxes the hair cuticle, making it smooth and less frizzy.

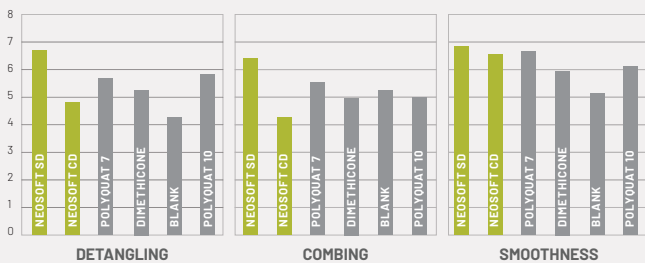
### APPLICATION BENEFITS

#### SENSORY EVALUATION

Conditioning Agent	Recommended Dose (in%)	Dosage used (Median Value)
Polyquaternium 7	2 - 5	3.5
Polyquaternium 10	0.25 - 0.5	0.375
Neosoft SD	2 - 10	6
Neosoft CD	0.5 - 5	2.75
Dimethicone	0.5 - 5	2.75

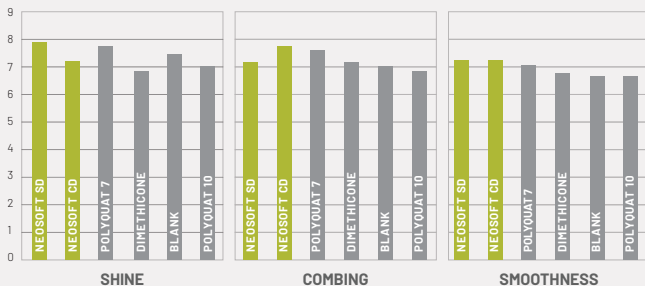
NO. OF PANELISTS: 7

#### WET HAIR PROPERTIES



For all wet hair properties, **Neosoft SD** has outperformed all other hair conditioning agents. **Neosoft CD** gave comparable results to Polyquat 7 and **Neosoft SD** in terms of smoothness.

#### DRY HAIR PROPERTIES



Out of all the hair conditioning agents, **Neosoft SD** outperformed them all when it comes to shine. The best performing conditioning agent when it comes to dry combing is **Neosoft CD**. **Neosoft CD** and **Neosoft SD** tied as the best in hair smoothing effect, outperforming Polyquat 7.

### SAMPLE FORMULATION

#### HAIR CONDITIONER

	MATERIALS	INCI NAME	%
Phase A	Deminerlized Water	Aqua	q.s
	Chelating Agent	Methylglycinediacetic Acid	0.10
	<b>Glysoft RG</b>	Glycerin	2.00
Phase B	Cetyl Alcohol	Cetyl Alcohol	5.00
	<b>Glyzer CT200</b>	Caprylic/Capric/Lauric Triglyceride	3.00
	BTAC	Behentrimonium Chloride	2.00
Phase C	CTAC	Cetrimonium Chloride	3.00
	<b>Neosoft SD</b>	Stearamidopropyl Dimethylamine Lactate	2.00
	Antioxidant	D-Panthenol	0.50
	Preservative	Phenoxyethanol( and ) Ethylhexylglycerin	0.80
	Vacuum Salt	Sodium Chloride	0.50

TOTAL: 100

#### PROCEDURE

**Phase A:** Load Water in a clean container. Add Ion Ligand and **Glysoft RG**, Heat to 65-70°C.

**Phase B:** In a separate container, combine Cetyl Alcohol, **Glyzer CT200**, BTAC and CTAC. Heat to 65-70°C.

Mix Phase A and Phase B

Cool down to 40-45°C.

Load **Neosoft SD**, Antioxidant, Preservative and Vacuum Salt.

# Pearlux PB

Liquid Pearling Agent

Sulfate-free

Cold processable

Compatible with a wide range of surfactants



# Pearlux

## PB10·PB20·PB40

### Liquid Pearling Agent

#### Pearlux PB10

Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA Sulfate, PEG, and EO-free

#### Pearlux PB40

Glycol Distearate (and) Sodium Laureth Sulfate (and) Laureth 10 (and) Cocamide MEA  
Optimum pearling effect

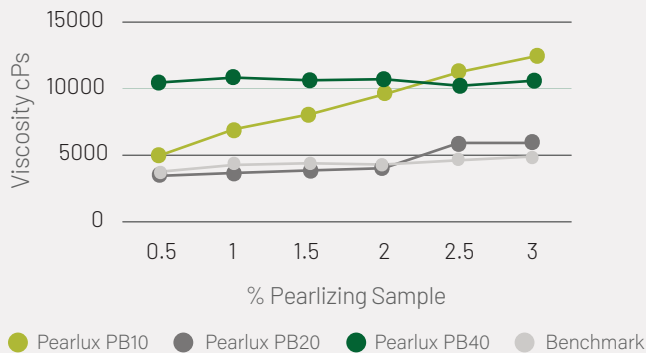
#### Pearlux PB20

Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10 Sulfate and PEG free, provides more opaque and pearling effect



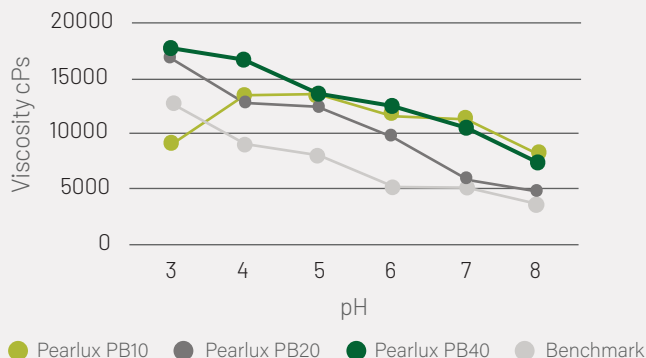
- Offers smooth luster and shimmering effect on personal care and cosmetic products
- Cold-processable and easy to disperse
- Enhances product viscosity
- Can be used in a wide range of pH
- Naturally-derived from sustainable coconut oil
- Environmentally friendly

#### VISCOSITY PROFILE IN SLES SURFACTANT SYSTEM (15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the system increases as the amount of **Pearlux PB10**, **Pearlux PB20** and Benchmark increases. Pearlux PB10 has the highest viscosity among the three samples.

#### VISCOSITY PROFILE AT DIFFERENT PH (15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the surfactant system decreases as the pH of the sample becomes more basic

#### DEGREE OF WHITENESS



#### FORMULATION

MATERIALS	INCI NAME	%
Water	Aqua	q.s
SLES 70%	Sodium Lauryl Ether Sulfate	15.00
<b>Sufamide HF750</b>	Cocamide MEA	5.00
<b>Sufrosoft CB30</b>	Cocamidopropyl Betaine	5.00
<b>Glysoft RG</b>	Glycerin	5.00
D-Panthenol		5.00
Fragrance		0.50
Preservative		0.10
<b>Pearlux PB20</b>	Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10	1.00
Vacuum Salt	Sodium Chloride	1.20
10% Citric Acid	Citric Acid	q.s

#### PROCEDURE

Mix all the raw materials in the given order.

#### PHYSICAL APPEARANCE

Appearance	Pearlized viscous liquid
pH (as is)	6.98
Viscosity, cPs	6,800 min

# Sufraquat FS

Coconut-Derived Esterquat

Improves fabric softness

Better scent retention

Coconut-derived



# Sufraquat FS

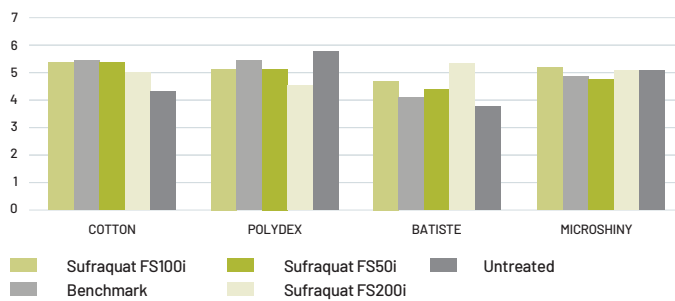
Coconut-Derived Esterquat

## DIALKYLESTER AMMONIUM METHOSULFATE

Coconut-derived esterquat used as an active for fabric softener. It provides excellent smoothness on various types of fabric by getting rid of static. It does not build up on clothes, promoting good rewetting ability.



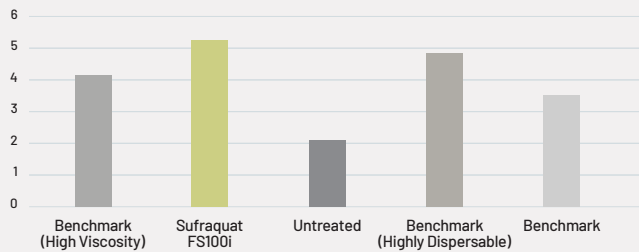
VARIANTS	END-PRODUCT APPEARANCE	EASE OF HANDLING	END-PRODUCT VISCOSITY
Sufraquat FS50i	Slightly Translucent		
Sufraquat FS100i	Opaque White		
Sufraquat FS200i	Opaque White		



### CLOTH SOFTNESS

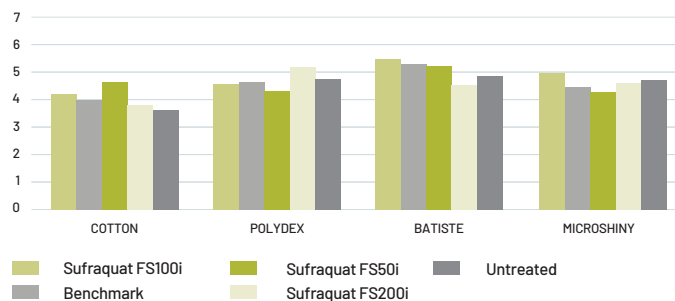
Sufraquat FS100i, FS50i, and Benchmark (High Viscosity) are comparable in softening cotton. Benchmark (High Viscosity) is better in polydex fabric.

Sufraquat FS100i and FS200i are better in batiste and microshiny fabrics.



### SCENT RETENTION

Sufraquat FS100i outperformed Benchmark (High Viscosity), Benchmark (Highly Dispersable) and Benchmark in retaining scent in the fabric.



### WRINKLE REDUCTION

Sufraquat FS50i has the best performance in cotton fabric. Sufraquat FS200i has the best performance in polydex fabric. Sufraquat FS100i has the best performance in batiste fabric.

Say goodbye to static cling and chafing with Sufraquat FS! Sustainable, coconut-derived fabric softener actives .

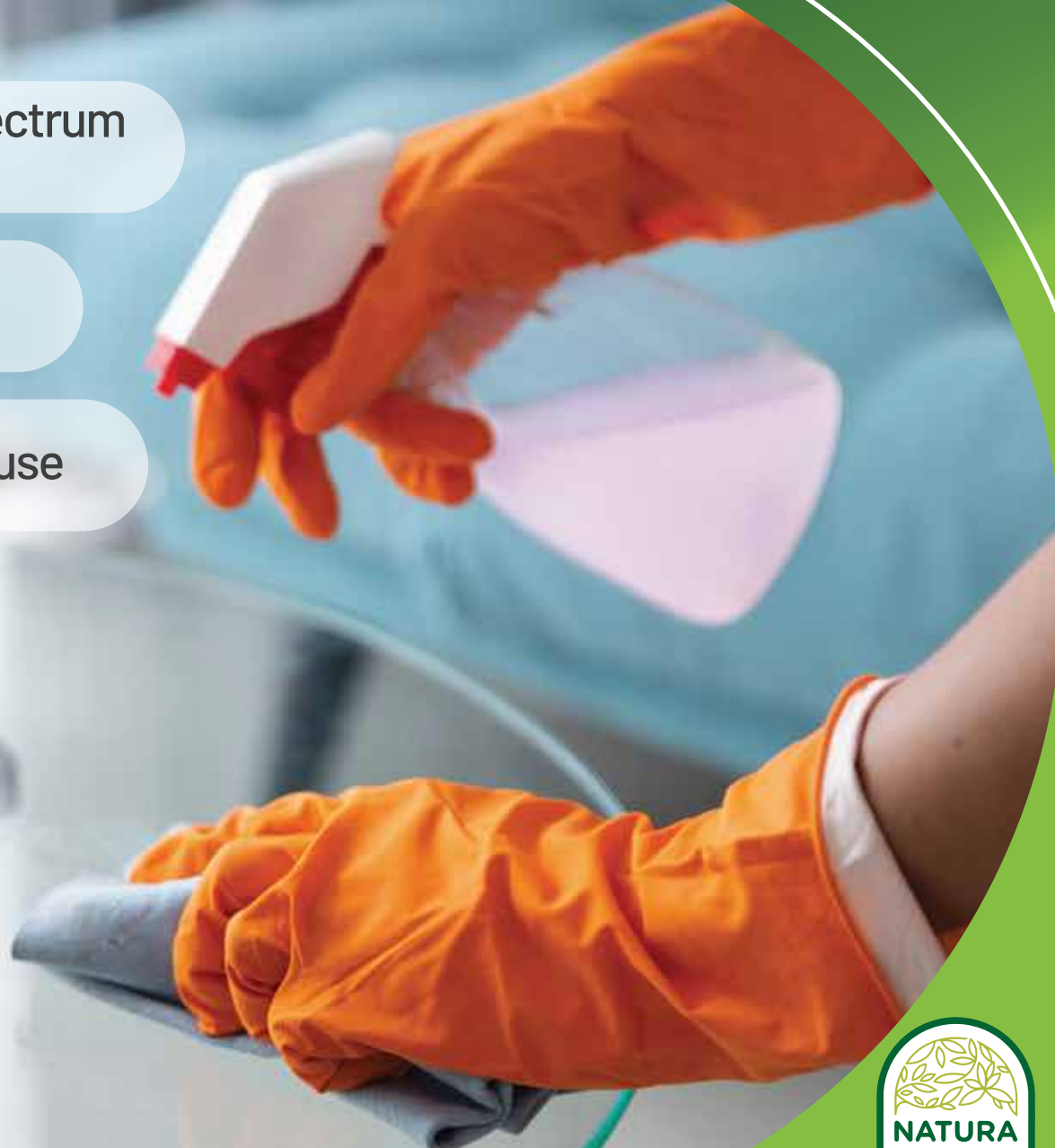
# Sufraquat BK

Coconut-Derived Disinfectant

Potent broad-spectrum  
disinfectant

Compatible for  
various surfaces

Safe and easy to use





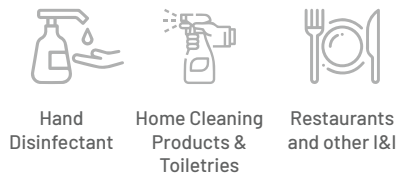
# Sufraquat BK

Coconut-Derived Disinfectant

**BENZALKONIUM CHLORIDE**

Potent, long-lasting, and broad-spectrum disinfecting active based on quaternary benzalkonium chloride salt. It is coconut-derived, biodegradable, and non-toxic to users and the environment. **Sufraquat BK** is optimal for cleaning facilities, equipment, and surfaces.

## APPLICATIONS



## FEATURES & BENEFITS



VARIANT	PERCENT ACTIVE	RECOMMENDED DOSAGE
SUFRAQUAT BK80	80% Active	0.125%   0.025%*
SUFRAQUAT BK50	50% Active	0.2%   0.04%*

\*For no-rinse application in food industry

## THIRD PARTY LABORATORY TEST RESULTS

TEST ORGANISM	CFU/ML (CONTROL)	CFU/ML AT 5 MINUTES CONTACT TIME	% KILL
<i>Escherichia coli</i> ATCC 25922	$6.6 \times 10^8$	< 1	99.99%
<i>Pseudomonas aeruginosa</i> ATCC 19429	$8.4 \times 10^9$ est	24	99.99%
<i>Staphylococcus aureus</i> ATCC 12600	$1.4 \times 10^9$	< 1	99.99%
<i>Salmonella enterica</i> ATCC 14028	$1.1 \times 10^{10}$ est	< 1	99.99%
<i>Listeria monocytogenes</i> ATCC 19115	$1.0 \times 10^{10}$ est	< 1	99.99%





# NatPro

Natural Preservative

Potent antimicrobial active

Multifunctional

Plant-based



# NatPro 8000

## Broad-spectrum Preservative & Refatting Agent

### GLYCERYL CAPRYLATE, GLYCERYL CAPRATE, GLYCERYL LAURATE

NatPro 8000 is a broad-spectrum natural preservative and antimicrobial active. This material is a multi-functional ingredient since it also imparts skin refatting and moisturizing. This product is also a natural solution to replacing and boosting the efficacy of regulated preservatives such as isothiazolines, benzyl benzoate, hydantoin, and phenoxyethanols. NatPro 8000 is clinically proven to be mild, gentle, and, hypoallergenic.

#### FEATURES AND BENEFITS



Natural Preservative



Natural co-emulsifier & superfatting active



Effective at pH range of 4.0 - 7.0



Light color and low odor

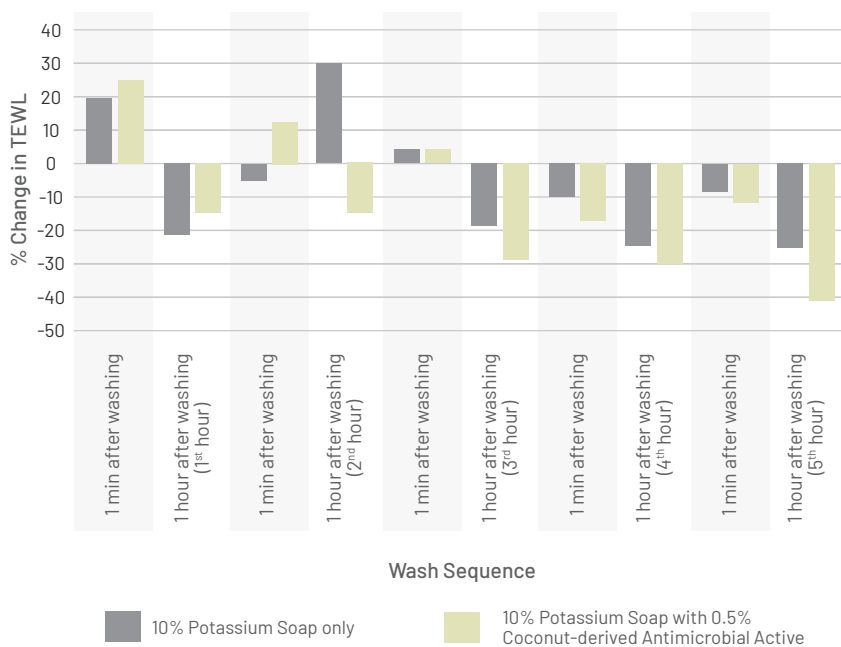
#### THIRD PARTY LABORATORY TEST RESULT

##### DETERMINATION OF MINIMUM INHIBITION CONCENTRATION

CONCENTRATION	BACILLUS SP. (From Cosmetics)	S. AUREUS	E. COLI	K. PNEUMONIAE	E. AEROGENES	C. ALBICANS
2.00%	-	-	-	-	-	-
1.50%	-	-	-	-	-	-
1.00%	-	-	-	-	-	-
0.70%	-	-	-	-	-	-
0.50%	-	-	-	-	-	-
0.00%	+	+	+	+	+	+

Minimum inhibitory concentration of **NatPro 8000** against 6 most common microbes in that cause cosmetic formulation spoilage. The microdilution method was employed in this study.

#### ENHANCING THE SKIN'S BARRIER AND MOISTURE



The graph above illustrates the Trans-epidermal Water Loss (TEWL) data resulting from hourly hand washing using soap samples, both with and without the inclusion of a coconut-derived antimicrobial active. The data is presented as a percentage change, wherein lower TEWL values indicate improved skin moisture retention and a stronger skin barrier function.

#### AS ACTIVE FOR ALCOHOL-FREE DISINFECTANTS

With a 1% solution, this active ingredient has demonstrated an unwavering 100% bacterial kill rate against prevalent hand bacteria, encompassing hazardous pathogens like *Klebsiella pneumoniae* and *E. coli*. These results emphasize its prowess as an effective antibacterial agent, providing a trustworthy solution for ensuring thorough hand hygiene and optimal protection.

#### SAMPLE FORMULATION ALCOHOL-FREE SANITIZER

MATERIALS	INCI NAME	%
Water	Aqua	q.s
NatPro 8000	Glyceryl Caprylate, Glyceryl Caprate, Glyceryl Laurate	1.25
Solubilizer	PEG-40 Hydrogenated Castor Oil	1.35
Fragrance		0.10
		<b>TOTAL: 100</b>

#### PROCEDURE

Load **NatPro 8000**, PEG-40 Hydrogenated Castor Oil and the fragrance in a clean container.

Homogenize the bulk.

Load water in the container.

Mix until a translucent consistency is obtained.