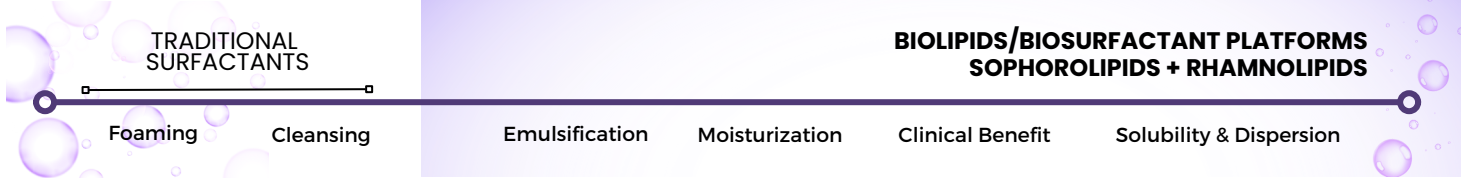


BioReNuva

MORE THAN JUST FOAM

GLYCO LIPIDS
sugar + oil + fermentation

WHAT WE PUT IN IS WHAT WE GET OUT



Reduce the need for over-used surfactant systems that are harsh for the skin & environment.

Focus on multi-functional performance, safety, and formulation flexibility

BIOSURFACTANT PLATFORM	TYPE	COMPOSITION	KEY FEATURES	COSMOS STANDARD	VEGAN	USE LEVEL
ReNuva™ SL-A70 INCI: Glycolipids	ACID SOPHOROLIPID	70% ACID	HLB 16-18 HYDROPHILIC IONIC	✓	✓	1-10%
ReNuva™ SL-L70 INCI: Glycolipids	LACTONE SOPHOROLIPID	70% LACTONE	HLB 6-8 LIPOPHILIC NON-IONIC	✓	✓	1-10%
ReNuva™ RL-50 INCI: Glycolipids	RHAMNOLIPID	1: 2.75 MONO : DI	HLB 8-9	✓	✓	1-3%
ReNuva™ Ready Blend Glycolipids (and) Cocamidopropyl Hydroxysultaine (and) Sodium Methyl Cocoyl Taurate	SL-A70 + RL-50 SOPHOROLIPID + RHAMNOLIPID +2 BIO-BASED SURFACTANTS	45% ACTIVE CONTENT	BEST FOAMING PROFILE (FOAM DENSITY & RICHNESS)	COSMOS COMPLIANT	✓	15 - 20%

EMULSIFY, SOLUBILIZE & MORE

EMULSIFICATION

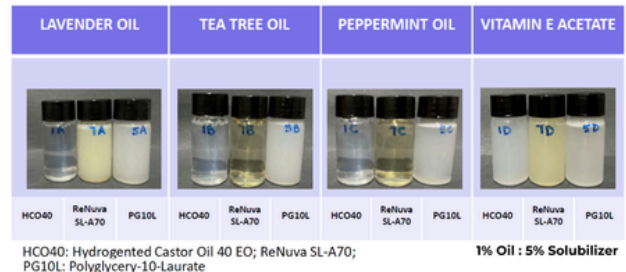
- O/W up to [40%]
- Cold process
- Highly compatible w/ low polarity oils
- creates microemulsions (O/W) for fragrancng lotions without alcohol

DISPERSION AID

- High compatibility:
- physical UV filters (ZnO, TiO2)
- iron oxides, pigments

SOLUBILITY

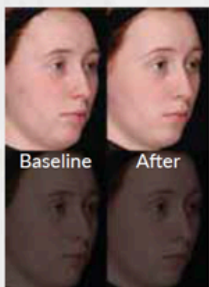
- vs. traditional esters (ie. PEGs, ethoxylated, hydrogenated, plant-based)



All studies conducted with 10% SL-A70 & 90% Water

IT'S ALL ABOUT THE DATA

Acne



63.22% Reduction

T = 2x daily, 28 days

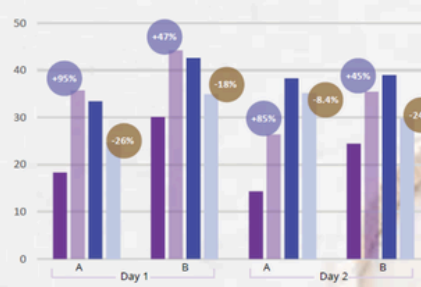
Dandruff



70.27% Reduction

T = 1x daily, 21 days

Moisturization



Moisturization: 58% Increase
Sebum: 14% Reduction

T = 1x daily, 2 days