

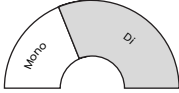


SETTING THE STANDARD

FOR COLOR, ODOR AND PRODUCT STABILITY FOR BIOSURFACTANTS

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	✓	✓	3-5%
ReNuva™ SL-L70 INCI: Glycolipids	LACTONE SOPHOROLIPID	 70% LACTONE	HLB 6-8 LIPOPHILIC NON-IONIC	✓	✓	3-5%
ReNuva™ RL-50 INCI: Glycolipids	RHAMNOLIPID	 1:2.75 MONO:DI	HLB 8-9 LIPOPHILIC NON-IONIC	✓	✓	1-3%

Multi-functional
performance, safety,
formulation flexibility



EMULSIFICATION

- O/W up to [40%]
- Cold Process
- Highly compatible w/ low polarity oils



DISPERSION AID

- Physical UV filters (ZnO, TiO₂)
- Iron Oxides, pigments



SOLUBILITY

vs. traditional esters
(ie. PEGs, ethoxylated, hydrogenated)

*Engineered exclusively for
beauty and personal care*

Non-Toxic
Cytokine-Stimulating
Sustainable

100% Biodegradable
Non-GMO
Safety Testing Data

LEADING
COMPETITOR

RENUVA™
SL A-70

LEADING
COMPETITOR

RENUVA™
RL-50



SOPHOROLIPIDS

RHAMNOLIPIDS



EMULSIFY, DISPERSE
& SOLUBULIZE



MOISTURIZING
CLEANSERS



ORAL CARE &
MOUTHWASH



ALCOHOL-FREE
FRAGRANCE MISTS



WIPES &
AMMENITIES



... AND SO
MUCH MORE



White Papers
& more data

Cleansing

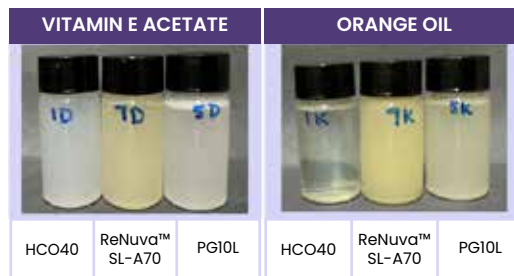
- 1.) L'OREAL WATERPROOF MASCARA APPLIED TO SKIN & ALLOWED 15 MINUTES TO DRY
- 2.) COTTON PADS WERE DIPPED & ALLOWED TO SOAK UP TO 5 GRAM OF MATERIAL A, B, C



- COMMERCIAL MAKE-UP REMOVER
- COMMERCIAL MAKE-UP REMOVER + 10% RENUVA LIPIDS
- 10% RENUVA LIPIDS + 90% H₂O

Solubility

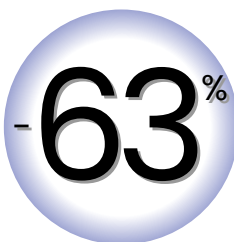
SOLUBULIZES A WIDE RANGE OF ESSENTIAL OILS & FRAGRANCES COMPARATIVELY TO HCO-40 & HCO-60



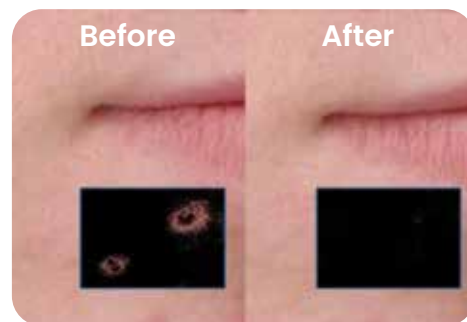
1% oil solubilized w/ 5% ReNuva™ SL-A70

Skin Health Microbiome

LESION SIZE



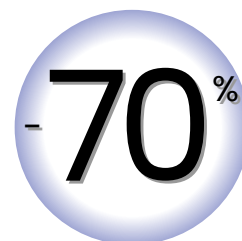
T = 2x daily, 28 days
Wash-Off Product



Scalp Health Anti-Dandruff



FLAKES



T = 1x daily, 21 days
Leave-On Hair Spray

Preservative Boosting

ANTI-MICROBIAL LACTONES

TSA test for Fastidious & Non Fastidious Organisms, Gram-negative & Gram-positive



*USP-51

ReNuva™ SL-A70 (Pass, Bacteriostatic)

ReNuva™ SL-L70 (Pass, Bactericide)

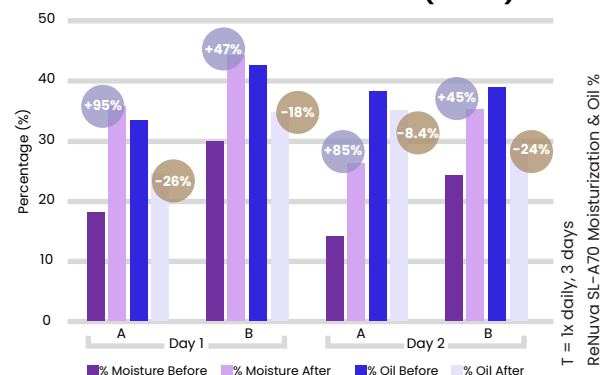
**Dip-Slides

ReNuva™ SL-A70 (Pass)
ReNuva™ SL-L70 (Pass)

*10% Glycolipids
**5% Glycolipids

Moisturizing

TRANSEPIDERMAL WATER LOSS (TEWL)



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