Glyco-Veil

Strengthening skin hydration and barrier through lamellar structure-forming capability of Glyco-Veil

INCI & CFDA
2,3-Butanediol, Glycolipids

Benefit
Hydration and skin barrier strengthening

A skin-mimetic solution based on lamellar structure-forming capability, reinforcing the skin barrier through intercellular lipid formation

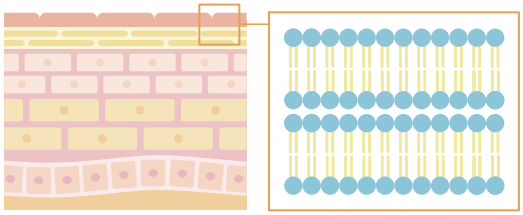
New solution

Formation of Glyco-Veil Liquid Crystal



MEL
A purified natural biosurfactant produced through a natural fermentation process.
Mannosylerythritol Lipid (MEL) is a natural glycolipid ingredient that not only provides excellent skin affinity and emulsifying properties, but also delivers superior moisturizing, anti-inflammatory, and antioxidant benefits.

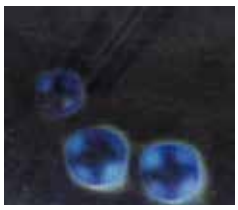
Skin Barrier



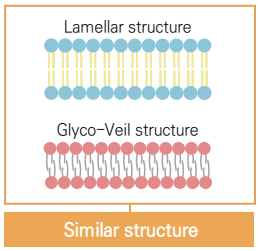
Supports skin protection, hydration, and nutrient delivery.

Reinforces the skin barrier with a lamellar lipid structure.

Glyco-Veil Liquid Crystal Formation



Confirmation of lamellar structure formation

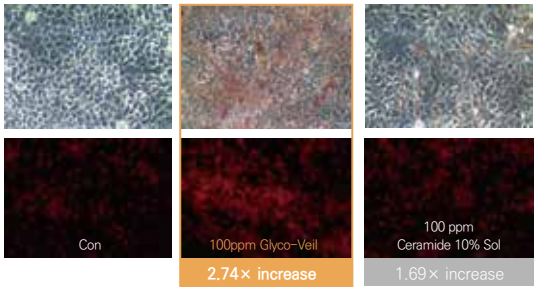


Similar structure

Feature

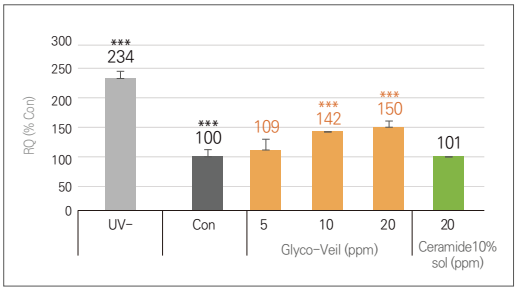
In-vitro test

Skin barrier strengthening efficacy
2.74× increase in intracellular lipids (Glyco-Veil)



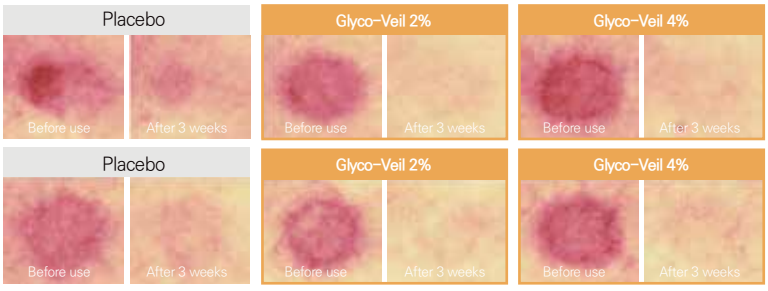
*Ceramide 10% : Ceramide NP

Skin barrier recovery efficacy (Filaggrin)
50% recovery of skin barrier gene expression at 20 ppm



Clinical test

Skin soothing After 3 weeks, Glyco-Veil reduced erythema and TEWL while improving skin barrier function

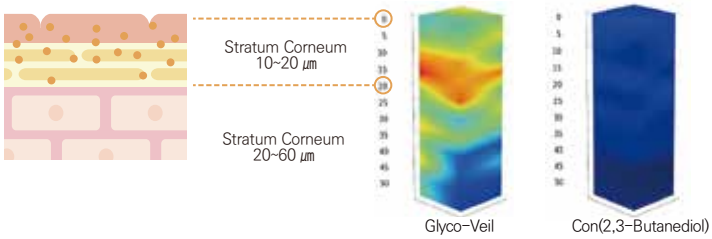


Glyco-Veil 2% vs. Control
Erythema reduced by 6.73%
TEWL reduced by 11.87%

Glyco-Veil 4% vs. Control
Erythema reduced by 7.78%
TEWL reduced by 13.82%

Confirmed skin barrier strengthening effect of Glyco-Veil

Skin absorption Glyco-Veil strengthens the skin barrier by forming a lipid layer



Average skin penetration depth: 25 μm
(30 minutes after application: absorption rate: 50 μm/h)

Stratum corneum (10-20 μm):
Lipid layer formation

Stratum granulosum (20-60 μm):
Lamellar body formation, strengthening the skin barrier and maintaining moisture

Skin absorption assessment
(Raman spectroscopy), 30 min post-application