



Matrix Life Science
Innovate | Science | Life

CosmoActive Hydroloc

Moisturize, rejuvenate,
restore & revitalize skin
with novel ingredient from

NON GMO **SUNFLOWER**

Stimulate skin cell barriers
with cosmoactive hydroloc
a skin soothing active
ingredient.

**Cosmoactive Hydroloc is
derived from sunflower & has
multiple properties**

- Restores Skin lipid barrier
- Prevents dry feel
- Restores skin supplement
- Moisturize
- Protects skin & hair from pollution





Botanical Name _ ***Helianthus annuus***
Local Name_ **Sunflower**
Environment _ **Hot and dry Climates**
Traditional Use_ **food, by North American Indians and Mexicans; medicine and tinctures; oil used today in cooking for its nutritional benefits**

Concept

Cosmoactive Hydroloc is a active ingredient of a moisturizing and soothing combination. Moisturizing the skin is essential for its appearance, suppleness, smoothness, and tonicity.

An invaluable molecular concentrate

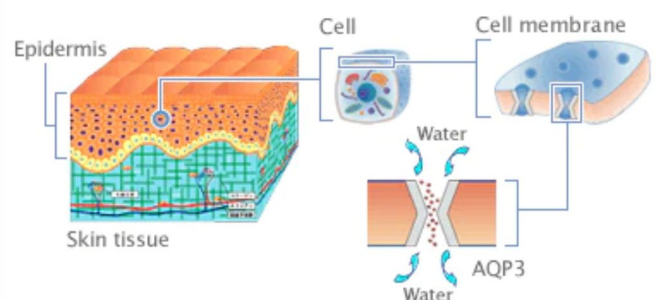
Cosmoactive Hydroloc is an oily active ingredient that contains unsaponifiable molecules. These molecules are naturally present in sunflower seed oil, and they are considered noble molecules due to their properties

Aquaporin-3 Activation- An identified mechanism of Action.

The moisturizing and soothing properties of CosmoActive Hydroloc are directly linked with its ability to enhance AQP3 gene expression in human keratinocytes (In-vitro study).

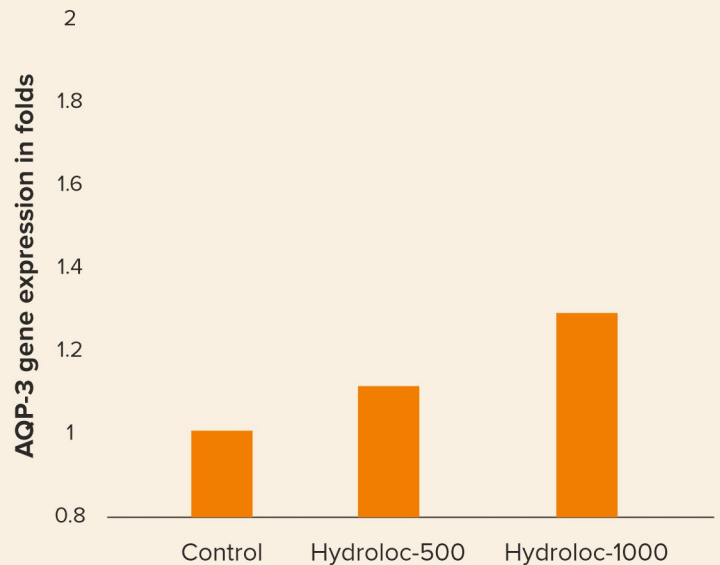
The aquaporin-3 (AQP-3) is one among the family of membrane proteins that form water channels across cell membranes to transport water within the epidermis. The more of AQP-3, the better the transport of moisture in the skin.

Cell line Structure - Human skin



Unique Active Ingredient That Strengthens Skin's Barrier Function

According to in vitro testing, Cosmoactive Hydroloc[®] has the unique ability to selectively stimulate the synthesis of key lipids, allowing them to be present and effective in reinforcing the epidermis barrier function. Cosmoactive hydroloc upregulate the APQ3 gene expression level in HaCat cells



Soothing effect

In vitro testing on keratinocytes has demonstrated that CosmoActive Hydroloc[®] is effective on APQ3 gene expression in human keratinocytes

Cell Control



Cosmoactive 500mg/ml



Cosmoactive 1000 ug/ml



(AQP3 regulations in term of fold)

Conclusion

CosmoActive Hydroloc exhibits antioxidant potential by effectively neutralizing ABTS and DPPH radicals. Due to its antioxidant properties, it can alleviate oxidative stress and offer hydrating benefits, making it a suitable choice for use as a hydrating agent.

Aquaporin-3 (AQP-3), a type of membrane protein that forms channels for water transportation across cell membranes in the epidermis, is crucial for maintaining skin hydration levels. The expression of AQP-3 is directly proportional to the moisture transport capability of the skin.

CosmoActive Hydroloc treatment has been found to enhance AQP-3 expression in a dose-dependent manner, thus corroborating its ability to improve skin hydration. The findings of these studies clearly indicate that CosmoActive Hydroloc possesses emollient potential for use in cosmetic formulations.

NOTES FOR FORMULATORS

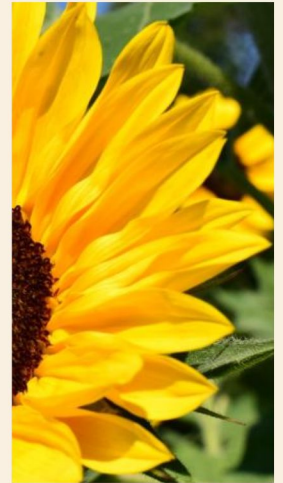
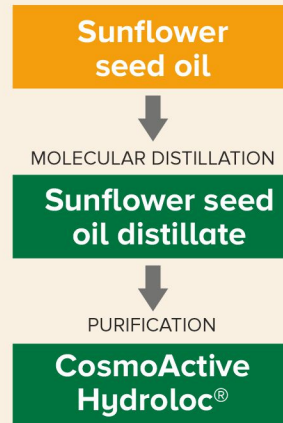
General Information

- Description** : Light brown liquid
Solubility : Liposoluble
INCI Names : Helianthus Annuus Seed Oil
Unsaponifiables
CAS number : 8001-21-6
Preservatives : None- natural composition of
Squalene, tocopherols and sterols
Origin : Natural oils from plant source
Dosage recommendations : 0.5-2%

Storage conditions : at room temperature in a clean,
dry place away from all sources of light and heat

Packaging : 1 Kg, 5 kg, 25Kg, 190 kg and IBC Drum.

Process



Application

- Moisturizing/restructuring care for dry or mature skin
- Soothing care for sensitive skin
- After-sun care, a UV Protector
- Emollient, prevents transepidermal water loss.
- Protect skin and hair from damage caused by free radicals.
- Anti Inflammatory
- Antioxidant
- Prevents dry feel



Moisturising



Vegetarian



Emollient



Photoprotection



Anti-oxidant



100%
Non-GMO



Customised
Solutions



Global
Presence



Technical
Support



Plant
Derived



Suitable for
use in Organic



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