

BIO-CERAMIDYL

Performance beyond fashion

INCI NAME:

GLYCOSPHINGOLIPIDS,
PHOSPHOLIPIDS, CHOLESTEROL

DOSE OF USE:

FROM 0,2 TO 0,5 %

SOLUBILITY:

LIPO-SOLUBLE & HYDRODISPERSIBLE

PRESERVATIVE:

NONE

TOLERANCE:

EXCELLENT

SKIN BENEFITS:

- Key molecules of the epidermis for **maintaining moisture**
- Insure the **cohesion** of corneocytes
- Improve cutaneous **barrier function**
- Increase skin's **water holding** capacity
- Play a part in the regular renewal of keratinocytes
- **Environmental protector**

DESCRIPTION:

BIO-CERAMIDYL is a natural, highly purified, concentrated monogalactosylceramide (glyco-ceramide) (4/5 type), joint with a determined portion of cholesterol and phospholipids, analogous to the human epidermal ceramides. Ceramides are key molecules of the epidermis for maintaining moisture and integrity of the cutaneous barrier and contributing to the regular renewal of keratinocytes.

Lipids, in general, are not hygroscopic molecules able to bind water such as proteins or sugars do. Because of their polar OH head groups the ceramides are capable of forming hydrogen bonds with water molecules, thereby creating a favorable environment for the movement of water into the skin. Thus, these intercellular lipids play a critical role in the water holding capacity of the stratum corneum, functioning as an "Environmental Protector" against Trans Epidermal Water Loss and subsequent dryness of the skin.

The furthest layer of the skin, the stratum corneum, is composed of flattened corneocytes between which are found lamellar bilayers made of ceramides, cholesterol, and free fatty acids that protect the skin and the organism from rapid dehydration and from external aggression.

PROPERTIES:

Effects of Bio-Ceramidyl at skin level:

1. Sphingolipids, fatty acids and cholesterol are essential, for the **epidermal barrier function**, by forming lamellar structures bent in curls within inter-corneocytar spaces
2. **Repairing the hydro-retaining capacity**, most performing substances
3. Improve **atopic skin** condition
4. Repair rough, scaly, dried, erythematous, irritated and uncomfortable features of the skin. **Strengthen its protection** against damages induced by various attacks: anionic surfactants, solvents, effects of the environment...

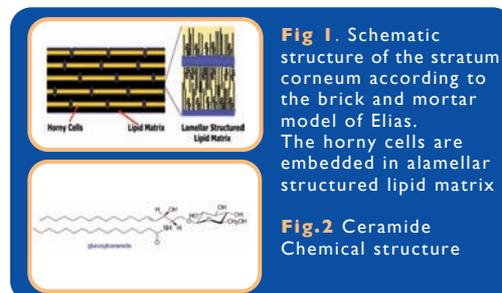


Fig.1. Schematic structure of the stratum corneum according to the brick and mortar model of Elias. The horny cells are embedded in lamellar structured lipid matrix

Fig.2 Ceramide Chemical structure



N a t u r a l l y E f f e c t i v e

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