



COSMETIC ACTIVE INGREDIENT

OLIGOLIN™

NEW COSMETIC ACTIVE INGREDIENT*

KEY WORDS:

- * Polysaccharides from flax
- * Prevention and struggle against skin aging

- ◆ Neutral, high molecular weight, water soluble oligosaccharides from flax seed mucilage
- ◆ Cosmetic Claims: Prevention and struggle against skin aging thanks to the stimulation of different cellular mechanisms:
 - ◆ Dermal fibroblast proliferation
 - ◆ Chemotactic effects on fibroblasts and stimulation of their migration.
 - ◆ Stimulation of collagen type III and IV synthesis
 - ◆ Increased expression of lumican, essential to collagen fibers stabilization.
 - ◆ Stimulation of keratinocytes differentiation



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- ◆ INCI : *Linum usitatissimum* (linseed) seed extract.
- ◆ Complies with Chinese regulation
- ◆ CAS: 8001-26-1 / EINECS: 232-278-6 (According to Cosing base)

➔ BENEFITS:

- ◆ No cosmetic active ingredient does have a comparable activity to OLIGOLIN™ on all mechanisms
- ◆ If we compare the OLIGOLIN™ in vitro activity with reference materials:
 - ◆ The stimulating effect on the synthesis of collagens type III and IV is similar to that of TGF-β at 10 ng / mL which is not suitable for cosmetics
 - ◆ The stimulating effect on the proliferation and cell migration is similar to that of fetal calf serum in the concentration of 5% v / v which is not suitable for cosmetics
 - ◆ The differentiating effect on keratinocytes is similar to that of calcium chloride 1.5 mM, which is not suitable for cosmetics

➔ APPLICATIONS:

Cosmetic: efficient in vivo between 1 and 5% w/v

- ◆ Face care
- ◆ Body care

➔ DEVELOPMENT STATUS:

- ◆ Efficiency in vitro and ex vivo demonstrated
- ◆ In vivo tests
- ◆ Formulation and clinical validation in progress
- ◆ Toxicological and regulatory tests upcoming

➔ INTELLECTUAL PROPERTY:

- ◆ Positive externalized anteriority study
- ◆ Priority patent submitted April 24, 2013 on:
 - ◆ The process to obtain oligosaccharides
 - ◆ Their biological activities
- ◆ For applications in:
 - ◆ Cosmetics
 - ◆ Dermo-cosmetics
 - ◆ Therapeutics