



LycοMega®

Active ingredient
titrated in Lycopene **80 ppm**
for derma-protecting products

LycοMega® is a 100% natural active ingredient used to elaborate derma-protecting cosmetic products. It is used to prevent stressful conditions sustaining or even participating to skin ageing. The active compounds contained in LycοMega® are extracted from tomato and cranberry seeds without any chemical process.



LESSONIA
micronisation
algues & plantes



LycosMega® contains titrated **lycopene** (80 ppm) extracted by cold process from the tomato seeds. As an antioxydant, lycopene efficiently blocks the deleterious effects of free radical scavengers and **protects the keratinocytes** exposed to UVB. **Omega 3 and 6** are contained at the exact ratio needed by the human cells. They have anti-inflammatory effects by reducing synthesis of prostaglandins and other inflammatory substances. They also prevent the dryness of the epidermis.

LycosMega® is used to elaborate **anti-ageing, suncare** and other **skin protection** products. LycosMega® offers new possibilities for safer and greener cosmetic products.

LycosMega® protects skin cells against stress

In an *in vitro* study, human keratinocytes cells culture were used to determine how keratinocytes are protected from UVB radiations.

Direct UVB exposure on human keratinocytes induces apoptosis of keratinocytes. When LycosMega® is used, UVB-induced apoptosis is strongly inhibited. Moreover it appears that this protection effect is directly linked to the dosage. LycosMega® reveals a strong activity to protect the cells against UVB radiations.

Amongst other natural antioxydants found in the nature, it appears that the antioxydant activity of LycosMega® is the strongest.

INCI name: solanum lycopersicum seed oil • caprylic/capric triglyceride • vaccinium macrocarpon seed oil • helianthus annuus seed oil • tocopherol

Lycopene : 80 ppm

Omega 3 : 7-8%

Omega 6 : 38-40%

Omega 6 / 3 ratio : 5-6

- Can be used in organic products
- Natural process, solvent-free (100% natural)
- Preservative free
- Easy to formulate: oily soluble
- Recommended dose: 2 to 5 %
- Pack: 20 kg
- Storage: avoid direct light and heat
- Code: F125

UV radiation on skin cells

LYCOPENE

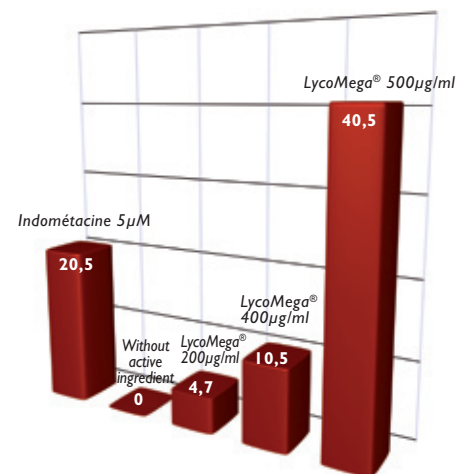
OMEGA 3-6

Lycopene & Omega 3-6 shield preventing from:

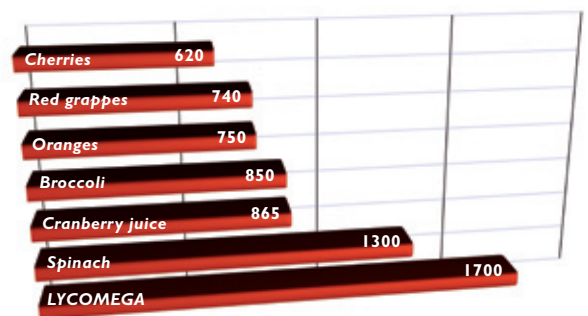
Free Radicals Scavengers

Prostaglandins and cytokines

Damage to DNA
Wrinkles
Loss of elasticity
Skin ageing



40.5% of human keratinocytes are protected when LycosMega is used, while 20.5% are protected by Indometacine (a standard anti-inflammatory molecule)



Antioxydant activity of natural antioxydant substances found in the nature (ORAC test)