LIFE GENIUS DELIVERED

Some essential natural molecules are almost impossible to extract from vegetable sources in a pure form. Nature teaches us, however, that extraordinary prodigies can be attained with the collaboration of smaller organisms.

Inspired by Life genius and convinced of the potential of symbiosis, Solvay’s partner Deinove has developed an exclusive platform dedicated to fermentation. It relies on extremophile Deinococci and other rare bacteria with exceptional resilience to achieve the biosynthesis of rare actives. Phytoene, the colorless precursor of all carotenoids is the first in a new series.
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**ReGeN-oPhyt™**

100% naturally-derived, pure, colorless, phytoene in jojoba oil

**Phytoene, the precursor of all carotenoids**

Skin cells and plants share a common substance to protect themselves from oxidative stress: Phytoene, the original precursor of all carotenoids. Unlike plants, however, it cannot be synthesized by skin. Phytoene is part of the essential molecules brought by external supplementation.

**Obtained by DEINOCOCCUS fermentation**

While plants would seem to be the logical source, until now, none of the available processes allows for the production of pure Phytoene. They only give access to a mix of carotenoids, with varying degrees of stability and colors. However, Solvay’s partner Deinove found a way to produce Phytoene thanks to an exclusive fermentation process performed by *Deinococcus geothermalis*, an extremophile bacterium capable of surviving a wide range of environmental stresses, including dessication, UV radiation, etc.

**INCI:** Simmondsia Chinensis (Jojoba) Seed Oil (and) C30-45 Olefin

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**EX VIVO STUDY**

**Lipoperoxidation** products is reduced by 79% compared to the untreated explants.

**IN VITRO STUDY**

Acceleration of skin repair.

**CLINICAL TESTS:**

Wrinkle depth reduced by 17% after 56 days

Skin treated with ReGeN-oPhyt™ has also shown better:

- **Firmness** (x2) - **Elasticity** (x3, as of 28 days) - **Radiance** - **Barrier function**

**After 56 days of daily usage of a simple formula containing 0.5% of ReGeN-oPhyt™, 15 volunteers have been asked to evaluate the state of their skin**

Skin is perceived as:

- Soothed ................................................................. 87%
- More comfortable .................................................. 80%
- Smoother ..................................................................... 93%

**Protocol:** Anti aging efficacy was assessed using 0.5% ReGeN-oPhyt™ in a simple cream gel on 15 volunteers. Twice a day, half-face application vs. placebo for 56 days.
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SOLVAY WAY
The way we do business

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