

ALGOPHAGYL®

Press Release

Your SILAB contact

Mélanie COIRIER
communication@silab.fr

Silab

ALGOPHAGYL®

MICROALGAE

MITOCHONDRIA

MITOPHAGY

SKIN RADIANCE

VITALITY

Protect the mitochondrion for revitalized skin

ALGOPHAGYL® is a natural energizing active ingredient capable of preserving the equilibrium and correct functioning of mitochondria to bring skin radiance and vitality back.

BOOST CELLULAR ENERGY

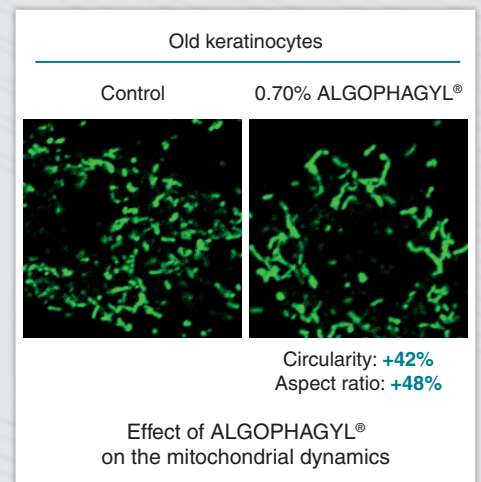
Activation of three mitochondrial defense levers

The mitochondrion is the only generator of cellular energy. Chronic or acute stress can cause its dysfunction, which then gives rise to harmful effects on the skin.

SILAB offers **ALGOPHAGYL®**, an innovative active ingredient activating three defense levers:

- the quality control of mitochondria;
- the mitochondrial dynamics*;
- the mitophagy.

When healthy, mitochondria produce the necessary energy for cell regeneration ^[1] and for establishing a dynamic and effective skin barrier.



*SILAB specifically developed the **MITOSHAPE®** technology. This novel tool enables the automatic quantification of the processes of mitochondrial fission and fusion and results have been published: Jugé *et al.*, Quantification and Characterization of UVB-Induced Mitochondrial Fragmentation in Normal Primary Human Keratinocytes. *Scientific Reports*, **6**, 1-9 (2016).

^[1] In comparison to the placebo and as of two hours after a single application, ALGOPHAGYL® significantly stimulates the production of ATP by +51.1%. This effect continues after 7 days of twice daily applications (+54.2%).

RESTORE COMPLEXION RADIANCE

After 28 days of twice daily applications and in comparison to the placebo, **ALGOPHAGYL**[®] lightens the skin of Caucasian and Asian volunteers, with a significant increase of parameters L* and ITA°, characteristic of lighter and more luminous skin.

In addition to lightening the skin, **ALGOPHAGYL**[®] restores the complexion radiance. After 14 days of twice daily applications and in comparison to the placebo, **ALGOPHAGYL**[®] formulated at 2% in an emulsion:

- increases the skin reflection by 5.3%;
- restores a fresh complexion (pink color) by 7.7%;
- decreases the olive color by 6.1%;
- attenuates the state of eye fatigue by 7.1%.

This effect continues after 28 days.

A subjective evaluation by the volunteers confirms these data: 100% of them report that their skin is revitalized, more luminous and suppler.

Improvement of skin quality



D0 before treatment

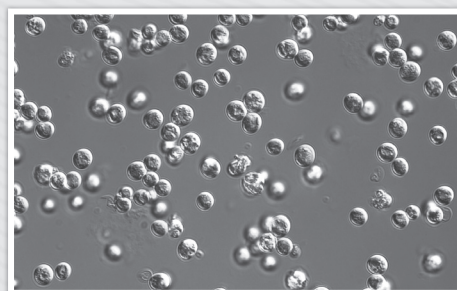
After 28 days of twice daily applications

CULTIVATE THE MICROALGAE

An inexhaustible richness in diversified active molecules

Because microalgae are the basis of life, SILAB's Research is focusing on their metabolic and adaptogenic properties in order to ensure the protection of the mitochondrion.

Rich in glucans and galactans, **ALGOPHAGYL**[®] (INCI name: *Chlorella sorokiniana* Extract) is obtained from the microalga *Chlorella sorokiniana*, industrially manufactured in SILAB biotechnologies production unit. The heterotrophic culture of this microalga, which means grown in darkness, obliges it to synthesize molecules of specific interest with high added value.



Microalga *Chlorella sorokiniana*

Obtained from a non-denaturing manufacturing process, **ALGOPHAGYL**[®] is a patented active ingredient, available in aqueous solution (recommended amount: 0.5 to 2%), and compliant with the main cosmetic regulations (Europe, United States, Japan).



World leader in the engineering of natural active ingredients

SILAB's reputation is based on excellence. An expert in skin biology and in the mastering of plants and biotechnologies for 30 years, this independent French group provides major names in cosmetic and dermo-cosmetic industry with patented and effective active ingredients.

The beauty of healthy skin. SILAB markets a catalog of almost 100 cosmetic natural active molecules, with scientifically proven functional properties complying with international regulations. They are recognized on the global beauty market for their high level of scientific innovation.

The care of compromised skin. SILAB softcare, a department fully dedicated to the care of compromised skin, has a strong commitment to health. Intended for the dermo-cosmetic and dermatological markets, its active ingredients respond to cutaneous disorders (atopic dermatitis, etc.) by reactivating the biological mechanisms of healthy skin according to three principles of excellence: Efficacy, Safety and Naturality.

B.P. 213 - 19108 Brive Cedex - France --- Plant: Z.I. de la Nau - 19240 Saint-Viance
Phone: +33 (0)5 55 84 58 40 - Fax: +33 (0)5 55 84 95 64 --- www.silab.fr