

BRIGHT OLEOACTIF®

Global Complexion Control



*Substantiated oily active ingredients concentrated by
Oleo-éco-extraction patented green process*



oléos

NATURAL, SCIENCE, PERFORMANCE



BRIGHT OLÉOACTIF®

NATURAL BRIGHTENING, WHITENING AND ANTI-DARK SPOT INGREDIENT

Bright Oléoactif® is an eco-designed oily active, extracted thanks to the patented oléo-éco-extraction technology, from 3 plants screened for their complementary activities : **Marshmallow root , Rice bran and Licorice root.**

Bright Oléoactif® is a 100 % vegetable active, totally safe and highly stable.

This active ingredient is dedicated to skin brightening, whitening and reduction of hyperpigmentation. It can be used to provide a **brighter or lighter complexion** but also in sun care or in global anti-aging products to **even the skin tone by reducing dark spots.**



GLOBAL INHIBITION OF PIGMENTATION WITH A 4-LEVEL MECHANISM

Due to its composition, Bright Oléoactif® acts by complementary mechanisms on 4 key stages of the cutaneous pigmentation process :

- Inhibition of the production of endothelin-1 in keratinocytes, which inhibits melanocyte differentiation [1];
- Inhibition of endothelin-1-induced activation of the intracellular signal transduction pathway, which inhibits melanocyte proliferation [1] ;
- Dose-dependent inhibition of the tyrosinase enzyme [2,3] (An *in tubo* tyrosinase inhibition study proves that 0,5%, Bright Oléoactif® inhibits 88% of the tyrosinase activity);
- Inhibition of the coloration of pre-existing melanin pigments.



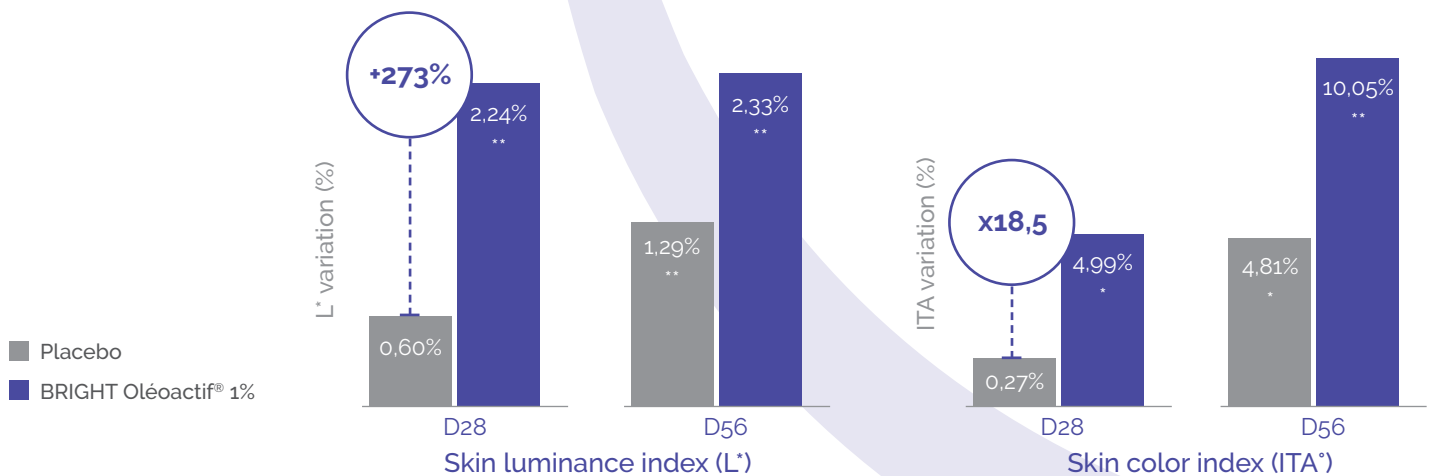
SIGNIFICANT RESULTS ON ASIAN SKIN AFTER 2 MONTHS OF TREATMENT

Brightening and whitening efficacy

20 Asian women (30-70 years old) with age spots, applied a cream containing 1% Bright Oléoactif® or a placebo cream, twice a day over a period of 56 days.

Skin pigmentation is evaluated on **non-hyperpigmented areas** using a chromameter (CM2600d™) that measures two parameters : L* and ITA°, before and after 28 and 56 days of treatment.

The luminance L* represents the **skin brightness**. The more L* is increased, the brighter is the skin. **Individual Typological Angle (ITA°)** corresponds to the **skin pigmentation degree (color)**. The more ITA° is increased, the lighter is the skin.



* p<0,05, ** p<0,01 (compared to Do Student's test)

In just 28 days, volunteers have a visible improvement in the quality of their complexion: 18,5 times increase of the lightness of their skin and +273% increase of the luminance index. After 56 days the results are even better with a significant increase of the ITA° value of +10,1%.

[1] Akemi Kobayashi and al., Inhibitory mechanism of an extract of *Althaea officinalis* L. on Endothelin-1-induced melanocyte activation. *Biol. Pharm. Bull.* 25(2) : 229-234 (2002).
 [2] Mitsuo Miyazawa and al., Tyrosinase inhibitor from black rice bran. *J. Agric. Food Chem.* 51 : 6953-6956 (2003).
 [3] Tomohiro Yokota and al., The inhibitory effect of glabridin from licorice extracts on melanogenesis and inflammation. *Pigment Cell Res.* 11 : 355-361 (1998).

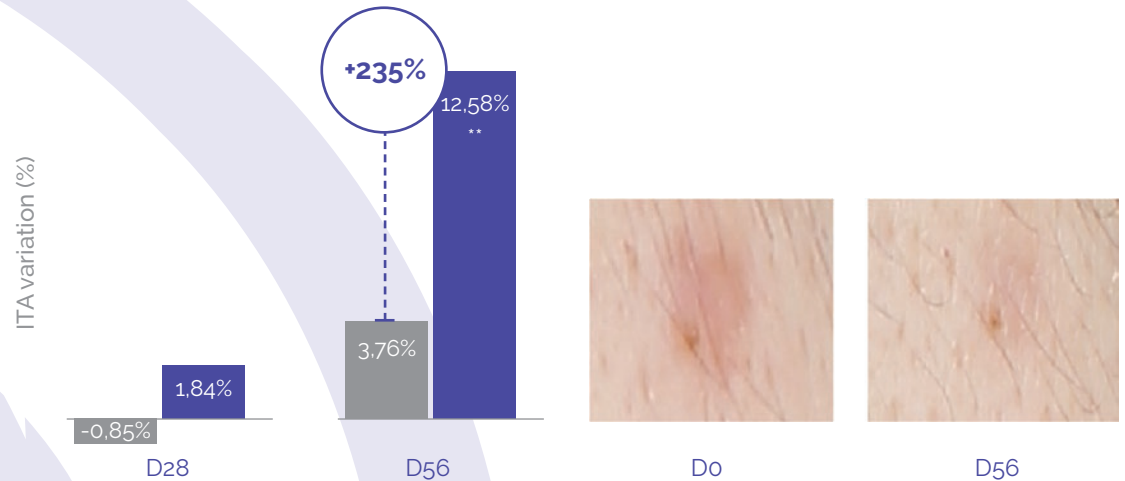


BRIGHT OLÉOACTIF®

Anti-dark spot action

Increase of ITA°

This study was performed on the previously described panel of volunteers. Colorimetric measurement of the skin ITA° is achieved on **hyperpigmented areas** before and after 28 and 56 days of treatment.



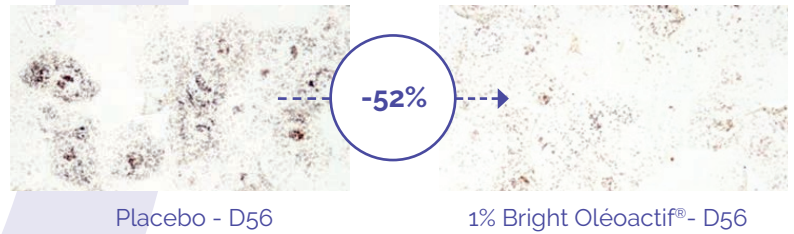
**p<0,01 (compared to Do Student's test)

1% Bright Oléoactif® is effective in reducing the appearance of dark spots. Visible signs of color reduction were observed after 56 days.

Reduction of melanin content in dark spots

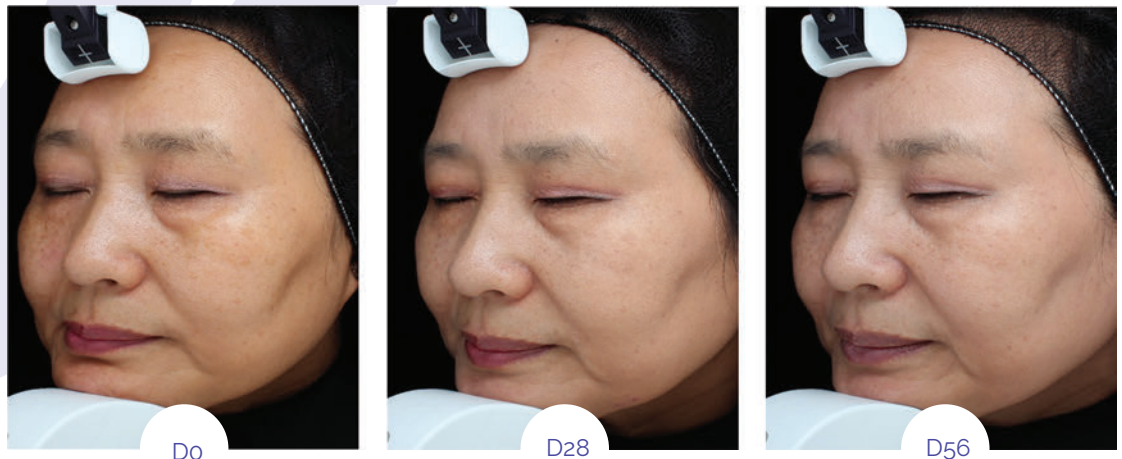
A data analysis was performed on skin-images of 3 volunteers to get a semi-quantification of melanin. After 56 days of treatment, 1% Bright Oléoactif® **decreases the quantity of melanin in dark spot up to -52%** (compared to Placebo). The superficial corneocytes of the same volunteers were sampled with stripping discs and then colored by Fontan-Masson method to visualize the melanin.

Melanin content of dark spots is visibly and significantly decreased.



Visualisation of global complexion control

Full face analysis with VISIA-CR was performed to evaluate skin pigmentation of the volunteers (one example below) before, during and after 28 and 56 days of treatment with 1% Bright Oléoactif®.



Bright Oléoactif® improves the quality of the complexion after only 28 days. The skin is lighter, more luminous, and dark spots are visibly reduced.



BRIGHT OLÉOACTIF®

TECHNICAL AND REGULATORY DATA

INCI NAME:	Brassica Campestris Seed Oil (And) Glycyrrhiza Glabra Root Extract (And) Polyglyceryl-3 Diisostearate (And) Althaea Officinalis Root Extract (And) Oryza Sativa Bran Extract
RECOMMENDED DOSE:	0,5% - 2%
RECOMMENDED pH:	4-8
SOLUBILITY:	Liposoluble
FORMULATION:	In the fatty phase before emulsification or directly in anhydrous formulas (skin care, oil, oily serum, make-up...).

+

SAFETY & GUARANTEE

NO

Cytotoxic
Phototoxic
Irritant
Allergenic

GMO
Additive
Preservative
Phthalate
Chemical &
Microbiological pollutant

FREE

+

APPLICATIONS

- BRIGHTENING SKIN CARE
- WHITENING SKIN CARE
- REDUCTION OF
HYPERPIGMENTATION
- GLOBAL ANTI-AGING
- WHITENING / SUN CARE PRODUCTS



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