

# DIAM OLEOACTIF®

## Anti-Inflamm'Agging



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



# oléos

NATURAL, SCIENCE, PERFORMANCE



# DIAM OLÉOACTIF®



## NATURAL ANTI-INFLAMM'AGING INGREDIENT



Diam Oléoactif® is an eco-designed oily active, 100% natural and organic, derived from cork oak and coconut oil through the patented Oléo-éco-extraction technology. It is an Oléoactif® for **sensitive and reactive skin**, acting as a natural shield against inflamm'aging.

The **cork oak nugget** (see left) is a by-product from the cork-making process. It is very rich in **anti-inflammatory molecules (>50% triterpenes)**. This highly active raw material has been combined with **cork oak roots, leaves, and flowers, rich in polyphenols**. **Virgin coconut oil** has been chosen for its high content in Medium Chain Triglycerids, allowing a perfect **vectorization** of the active molecules inside the skin. Thanks to this synergistic system, Diam Oléoactif® is a very potent ingredient, totally safe and highly stable.

## THE CORK OAK, A HIGHLY RESISTANT TREE



*Quercus Suber* is the botanical name for a slow growing, evergreen oak, which is cultivated in the Mediterranean region, and usually lives 150-200 years. The cork is a spongy substance **protecting the tree from fire, insects, and other aggressions from the environment**. The bark, even taken away, regenerates within 9 years in a better quality. An average tree produces corks for 4,000 bottles per harvest. Corks have been used to seal wine containers for centuries.

## THE CONCEPT OF INFLAMM'AGING

A major characteristic of the aging process is an **overall reduction in the capacity of the skin to cope with oxidative stress factors and an associated and progressive increase in pro-inflammatory skin conditions** (Elvira et al., 2011). This phenomenon is known as "inflamm'aging".

Inflammation is one of the first responses of the immune system to infection or irritation. Many **causes of inflammation** exist: **UV radiation, pollution, stress or auto-immune disorders** such as psoriasis and rheumatoid arthritis. During inflammation, a variety of mediators are brought into play (histamine, eicosanoids, cytokines...).

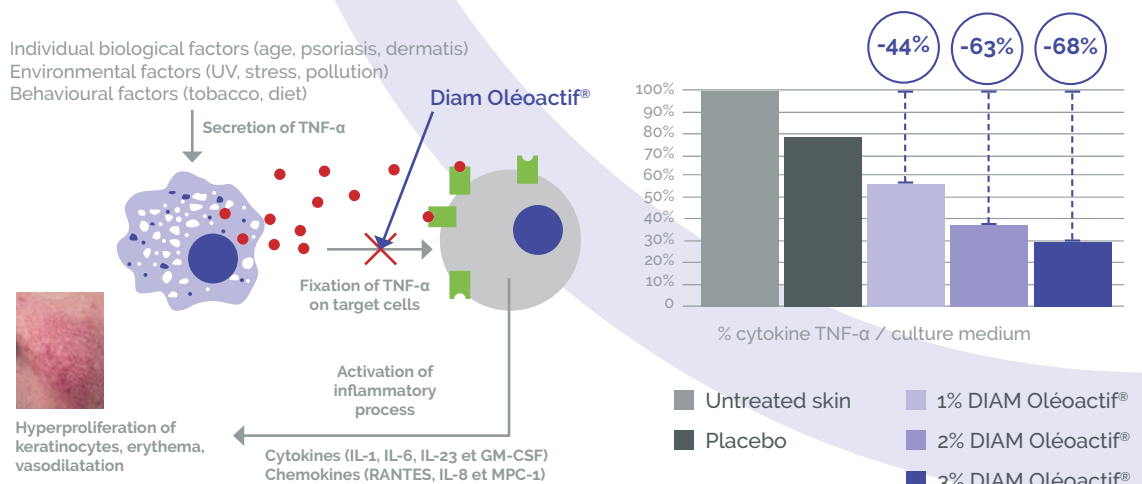
The **anti-inflammatory activity of Diam Oléoactif®** has been **substantiated**:

- **In vitro on cells**, through the study of cytokine TNF- $\alpha$  secretion.
- **In vivo at 0.5 %**, on the redness of sensitive skin with rosacea.
- **In vivo at 5 %**, with a protective and soothing action after a photo-induced erythema.



## SIGNIFICANT RESULTS ON INFLAMMATORY CYTOKINE TNF- $\alpha$

Test carried out on ARPE-19 cells (Adult Retinal Pigmented Epithelium -19 years old). Cells were incubated in the presence of a pro-inflammatory agent and then treated with 1%, 2% or 3% of Diam Oléoactif®.



This ingredient demonstrates a dose-dependent reduction of TNF- $\alpha$  secretion: from -44% to -68%.



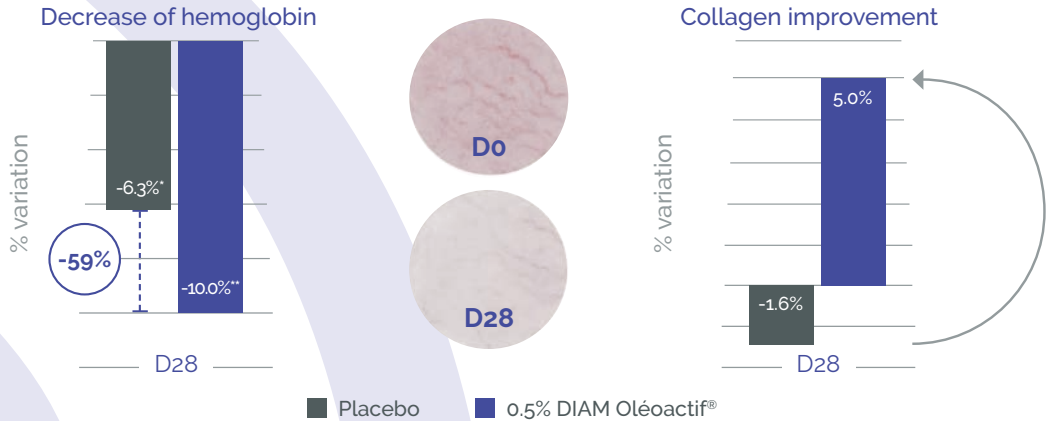
# DIAM OLÉOACTIF®

**NEW RESULTS**

## CLINICAL STUDY (0.5 %), ACTION ON HEMOGLOBIN AND COLLAGEN

This clinical test was conducted on 20 volunteers aged 30 to 50 with sensitive skin and rosacea, to assess the efficacy of Diam Oléoactif® on permanent redness. During 28 days, the subjects applied twice a day a placebo cream, versus a cream with 0.5% of Diam Oléoactif®. The hemoglobin and collagen contents of the skin are assessed through spectrophotometry.

\*p<0.05 compared to Do, Student's test  
\*\*p<0.01 compared to Do, Student's test

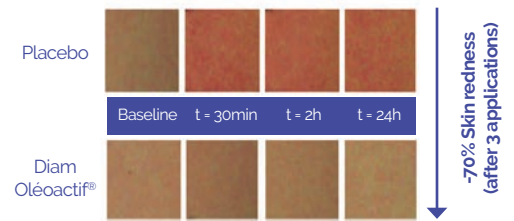


In the skin upper layers (<2mm), 0.5% Diam Oléoactif® reduces the amount of hemoglobin by 59% compared to placebo, and increases the amount of collagen in the skin.

## CLINICAL STUDY (5 %), PREVENTION AND REDUCTION OF SKIN REDNESS

This clinical test was conducted on 10 volunteers aged 20 to 56, as a double-blind experiment against placebo to assess the effect of Diam Oléoactif® on skin redness, through photo-induced erythema.

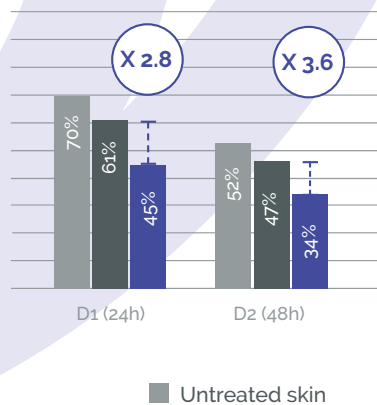
**Diam Oléoactif® allows the skin to better react to the inflammation caused by UV rays, with up to -70% of skin redness after only 3 applications.**



### Prevention of skin redness

From D-11 to D-1, the subjects applied twice-daily a placebo cream, versus a cream containing 5% of Diam Oléoactif®. The skin was then exposed to UV rays at Do.

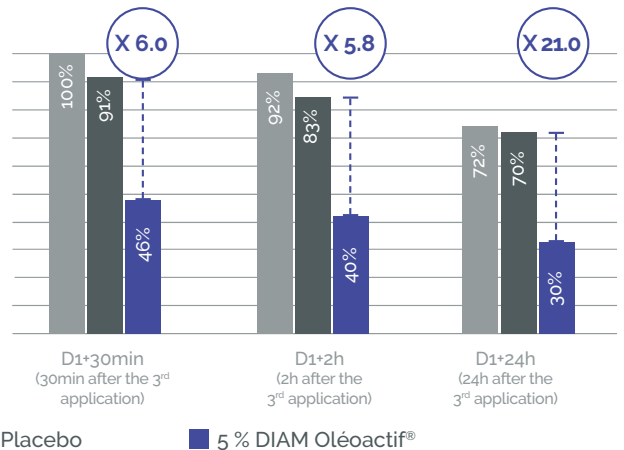
Colorimetric measurement of the parameter a\* (green-red axis) expressed as %



Applied preventively during 11 days, 5% Diam Oléoactif® significantly reduces the photo-induced redness of the skin, 24h after exposure.

### Reduction of skin redness

The skin was exposed to UV rays at Do. The subjects then applied 3 times a placebo cream, versus a cream containing 5% of Diam Oléoactif®: immediately (Do), at Do+16h, and at Do+24h.



Applied 3 times after UV rays exposure, 5% Diam Oléoactif® significantly reduces the photo-induced redness of the skin.





# DIAM OLÉOACTIF®

## TECHNICAL AND REGULATORY DATA

INCI NAME:	Cocos Nucifera Oil (and) Oak Root Extract
RECOMMENDED DOSE:	0.5% - 5%
RECOMMENDED pH:	4-8
SOLUBILITY:	Liposoluble
FORMULATION:	In the fatty phase before emulsification or directly in anhydrous formulas (skincare, make-up...).

+

### SAFETY & GUARANTEE

NO

Cytotoxic  
Phototoxic  
Irritant  
Allergenic

GMO  
Additive  
Preservative  
Phthalate  
Chemical &  
Microbiological pollutant

FREE

+

### APPLICATIONS

- SENSITIVE/REACTIVE SKIN
- PROTECTING & SOOTHING
- ANTI-AGING FOR FACE/EYE CONTOUR
- ANTI-REDNESS SKINCARE/ROSACEA
- SUNCARE
- REDENSIFYING/PLUMPING SKINCARE



COSMOS  
CERTIFIED