DIAN OLÉOACTIF® Anti-inflamm'aging

Substantiated oil-based active ingredient concentrated by Oléo-éco-extraction patented green process



DIAM OLÉOACTIF®



NATURAL ANTI-INFLAMM'AGING INGREDIENT

DIAM Oléoactif[®] is an eco-designed oil-based 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 is a by-product of 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, totally safe, and highly stable ingredient.

THE CORK OAK, A HIGHLY RESISTANT TREE

Quercus Suber is the botanical name for a slow-growing, evergreen oak that is native to the Mediterranean region, and usually lives 150-200 years. The bark of the cork oak is a spongy substance protecting the tree from fire, insects, and other environmental aggressions. When the tree is stripped of its bark, or cork, it regenerates itself within nine years while the cork's quality actually improves. 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-α 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-α

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-α secretion: from -44% to -68%.

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.





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.



TEST TVINO

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 D0.



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 D0. The subjects then applied 3 times a placebo cream, versus a cream containing 5% of DIAM Oléoactif[®]: immediately (D0), at D0+16h, and at D0+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:

RECOMMENDED DOSE: RECOMMENDED pH: SOLUBILITY: FORMULATION: Cocos Nucifera (Coconut) Oil (and) Quercus Suber Bark Extract (and) Oak Root Extract 0.5% - 5% 4-8 Liposoluble In the fatty phase before emulsification or directly in anhydrous formulas.





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