



CONTROLLED BIOLIQUEFACTION TECHNOLOGY
VEGETAL SKIN ON HUMAN SKIN



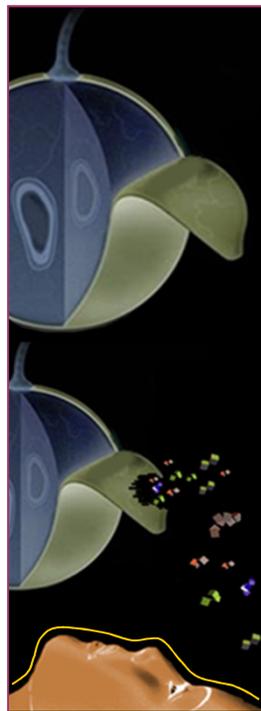
- Antiage (preventive)
- Rich in anthocyanosides, gallic phenols and catechins
- Antiradical, protects from oxidative stress
- Inhibition of collagenases
- Water base, completely oil and solvent free

THE COMPLETE CHEMISTRY OF GRAPE SKIN

UVIOX®

INCI name: Hydrolyzed Grape Skin

Grape skins protect grape fruits from UV overexposure, pathogen aggression, environmental pollution and adverse weather conditions. The thousands of molecules that Grape is able to synthesize and accumulate in the fruit skin are the secret of its defenses.



Our exclusive technologies allow to completely liquefy the grape skin thereby to completely recover its complex defensive chemistry.

UVIOX® allow to get all the active molecules of grape skins in a bioavailable form. The cosmetic formulation become a shuttle able to deliver this active chemistry on skin helping it staying healthy and young.

ANTIRADICAL ACTIVITY

Several factor might affect skin health and appearance. Aging, stress, pollution, physical activity, unbalanced diet, smoke can produce an oxidative stress able to hamper the normal metabolic activity of skin cells.

Phenolic compounds have been studied for their positive effect on human health. The antioxidant properties that these molecules showed in biological systems are a useful help in protecting from the endogenous and induced oxidative stress. UVIOX® has a high antioxidant activity (Figure 1.) due to the phenolic mix of grape skins completely recovered in water phase thanks to enzymatic catalyzers used to hydrolyze the plant tissues.

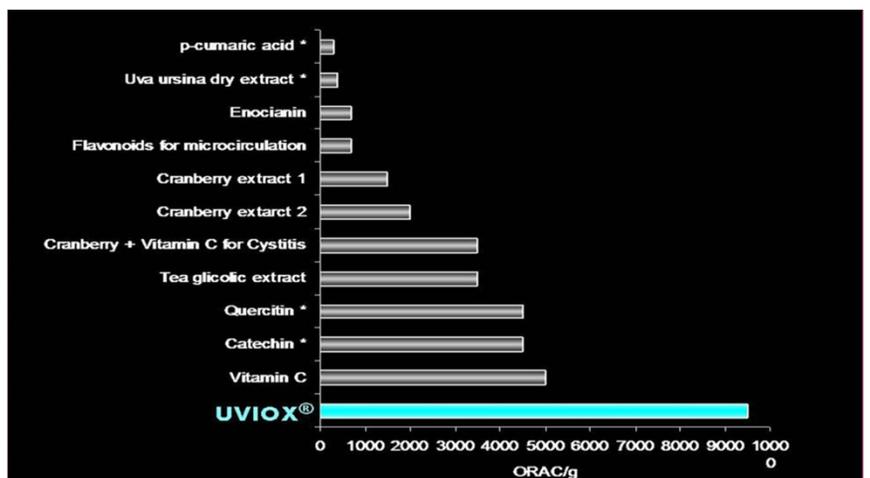


Figure 1: Comparison of the antioxidant activity (expressed as ORAC/g of active principles) of UVIOX® and other solutions of commercial products.*

*Theoretic solubility, not reachable in water.



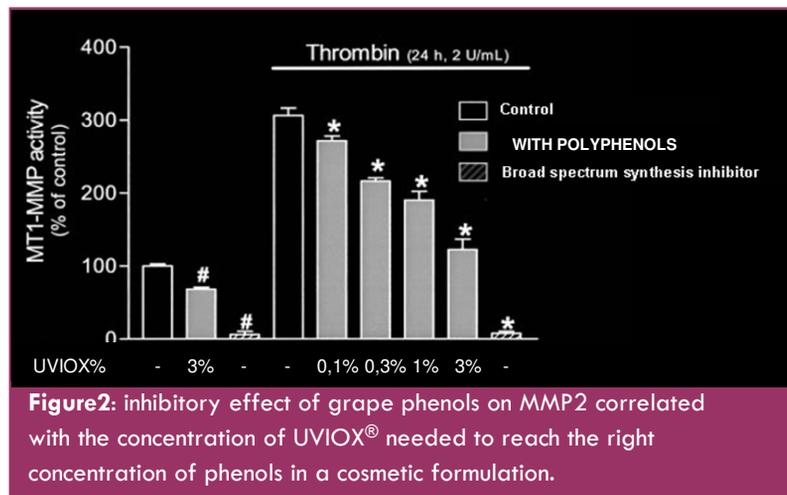
Inhibitory activity of metalloprotease

It was shown that grape polyphenolic molecules contained in UVIOX® have an inhibitory activity on membrane metalloproteases 2 (MMP2) of some skin cell lines (Min-Ho Oak et al. 2004).

MMP2, also called collagenases or gelatinases A, are one of the causes of degradation of collagen and other skin proteins such as the insoluble form of elastin, causing a decrease of skin tone and elasticity as well as the formation of wrinkles.

The inhibitory tests were performed on cell lines for:

- inhibition of MMP2 of untreated cell;
- Inhibition of MMP2 of cell line treated with thrombin, a powerful inducer of MMP synthesis.



UVIOX® IS AN IDEAL ACTIVE INGREDIENT TO BE USED IN ANTIOXIDANTS AND PREVENTATIVE ANTI-AGE COSMETIC FORMULATION.