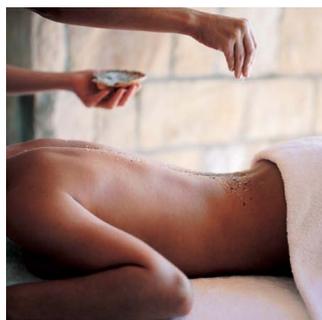


EVOIL[®] CARROT LIGHT

PRODUCT DATA SHEET



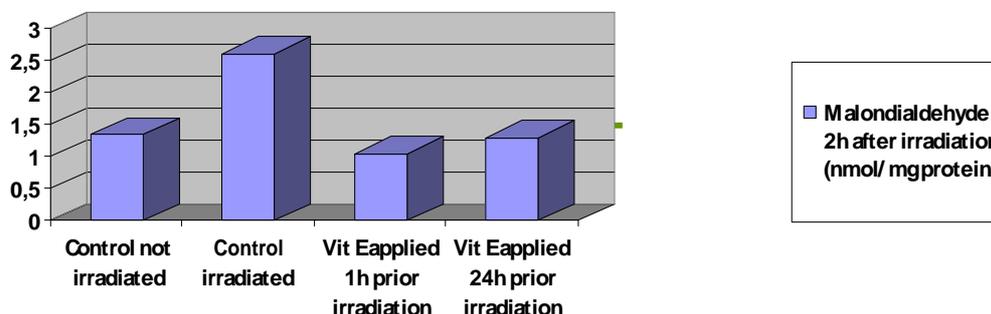
EVOIL[®] CARROT LIGHT is a composition of a vegetable oil, Beta-carotene and Natural Tocopherol in order to create a multi-functional oil.

β-CAROTENE is a red-orange pigment abundant in carrots, green leafy plants and fruits. **β-CAROTENE** is part of a family of chemicals called the carotenoids which are powerful antioxidants which have action against skin damage from exposure to sunlight.

UVA exposure causes premature ageing by an increase of oxidative stress in skin. In a study using human skin cells, the researchers found that **β-CAROTENE** suppressed UVA-induction of the matrix metalloprotease enzymes, which are key to degradation of the extracellular matrix during premature skin aging¹.

β-CAROTENE supplementation has also been reported to alleviate the symptoms of photosensitization and has a mild sun screen effect.

The addition of Natural Tocopherols in **EVOIL[®] CARROT LIGHT** helps to prevent the premature ageing of the skin by absorbing free radicals formed both in the course of normal biological reactions and also from various external factors, such as oxygen, UV light from the sun or environmental aggressions. When the skin is attacked its lipids are damaged by peroxidation. Such impairment leads to changes in the structure of the skin. It becomes wrinkled and appears older⁵.



Repeated application of Vitamin E to the skin reduces the number of sunburn cells formed as a consequence of UVB radiation.

EVOIL[®] CARROT LIGHT

TECHNICAL DATA

Appearance:	Orange-red oily liquid
Specific gravity:	0.91 - 0.93 g/ml
Beta-carotene:	0.02 - 0.05 %

APPLICATION



EVOIL[®] CARROT PLUS may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient in sun care products or an excellent carrier in skin and hair care products. Recommended dosage is between 3 to 10%.

EVOIL[®] CARROT PLUS applies easily, offers deep penetration and significant moisture retention together with high nourishing properties.

EVOIL[®] CARROT PLUS should be kept in a cool place or refrigerated, tightly closed and away from light exposure.

INCI Name: Helianthus annuus hybrid seed Oil, Beta-carotene and Tocopherol.

¹Karin Wertz, Nicole Seifert, et al. β -carotene inhibits UVA-induced matrix metalloprotease 1 and 10 expression in keratinocytes by a singlet oxygen-dependent mechanism. *Free Radical Biology and Medicine* (37; 654-670)
²Pathak M.A., Robins P., A response to concerns about sunscreens: a report from the Skin Cancer Foundation. *The Journal of Dermatologic Surgery and Oncology*. 1989 May;15(5):486-7.