

OPEXTAN™

OLIVE FRUIT EXTRACT



FOR HEALTHY, BEAUTIFUL SKIN

What is OPEXTAN™?

OPEXTAN™ is a new patented extract from olive pulp proven to have remarkable antioxidant and skin protective capability. From a specific variety of Italian olives, it has a unique polyphenolic profile, containing **verbascoside** and **hydroxytyrosol**. These potent antioxidants are known to prevent oxidative damage related to wrinkle formation, skin thinning and dehydration.

Specifications

OPEXTAN™ is **double standardized** in polyphenols and verbascoside:

- \geq 10% total polyphenols
- \geq 2% verbascoside

Recommended Dose

OPEXTAN™ is a light brown powder and can be taken orally or be utilized topically.

- Oral dose: 160 mg/day
- Topical dose: 0.5%

Scientific Evidence

OPEXTAN™ is supported by three clinical trials confirming its efficacy. In addition, Indena has performed pharmacological tests **confirming its efficacy and safety**.

References

¹ Purba M.B., Kouris Blazos A., Wattanapenpaiboon N., Lukito W., Rothenberg E.M., Steen B.C., Wahlquist M.L., "Skin wrinkling: can food make a difference?", J. Am. Coll. Nutr. 20, 71-80 (2001)

² (Yokota T., Murata T., Suzuki K., Mori M., Yamamoto N., Haratake A., "Anti-oxidative effect of several polyphenols derived from olive fruits and its application for cosmetics and supplements" presented at the 57th Society Cosmetic Chemists Japan Research Conference, November 25th, 2005 and Maramaldi G., Artaria C., Ikemoto T., Haratake A. "Estratto standardizzato di frutti di Olea europaea", L'Integratore Nutrizionale 9(3), 23-29 (2006))

³ (Haratake A., Uchida Y., Schmoth M. Tanno O., Yasuda R., Epstein J., Elias P., Holleran W., "UVB induced alteration in permeability barrier function: roles for hyperproliferation and tymocyte-mediated response", J. Invest Dermatol. 108, 769-775 (1997))

WHAT MAKES OPEXTAN™ UNIQUE?

OPEXTAN™ is a patented and standardized olive fruit extract for skin-health supplements

- OPEXTAN™ is an olive pulp extract (*not from waste water*) with proven antioxidant capacity
- Double standardized in polyphenols and verbascoside

OPEXTAN™ is supported by pharmacological and clinical data

The studies have shown:

- Taken orally, OPEXTAN™ has demonstrated skin protective capability¹
- Reduction of photo-aging induced by UV irradiation²
- Reduction of skin sensitivity to UV (clinically tested)³
- OPEXTAN™ is a safe product devoid of any side effects

OPEXTAN™ is water soluble and can be utilized in numerous applications and formulations

- Beauty and skin-health supplements (tablets, softgels, capsules, sachets)
- Functional foods and drinks
- Topical cosmetic applications