

# OLEA-HT™ 10

## Antioxidant Powerhouse



### OLEA-HT 10

INCI : Olea Europaea (Olive) Fruit Extract (and) Maltodextrin  
CAS #: 9050-36-6, 84012-27-1  
EC #: 232-940-4, 232-277-0

**Anti-aging**

**Antioxidant**

**Anti-inflammatory**

**Blue light protection**

**Free radical scavenger**

**Soothes skin**

**Targets UV-induced hyperpigmentation**

**Evens skin tone**

**Water soluble**

### Recommended applications



Skin care



Body care



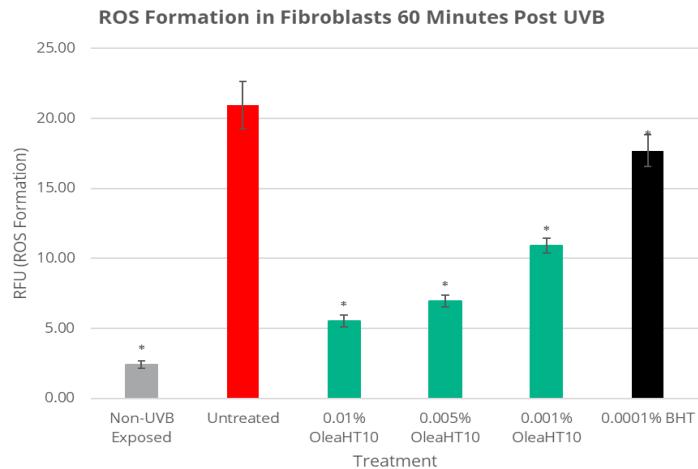
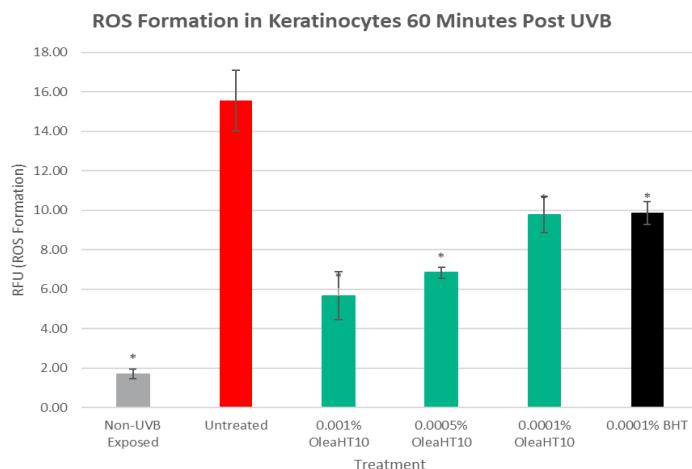
Hair care



 **Vantage**

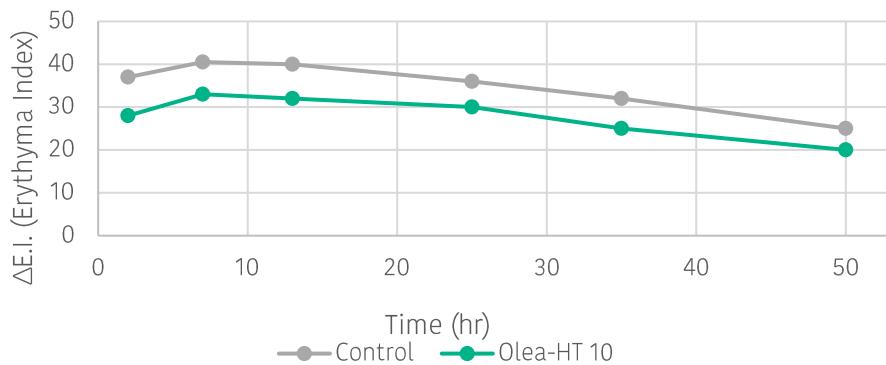
# OLEA-HT 10: BHT Alternative

OLEA-HT 10 can suppress ROS formation in UVB irradiated fibroblasts and keratinocytes, making it a top-choice alternative to BHT.

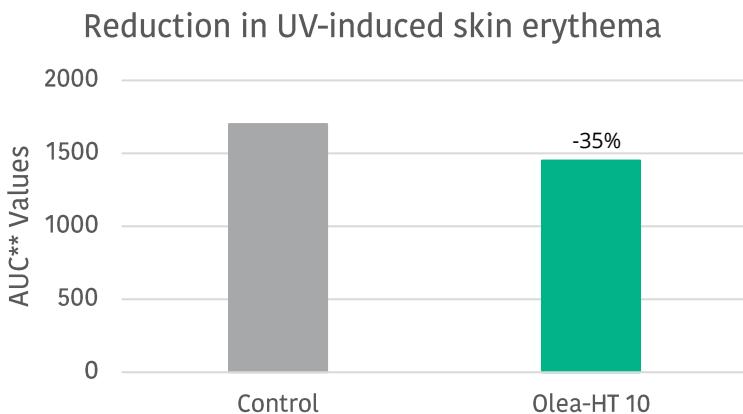


## In Vitro & In Vivo Studies: Photo-protective effect

OLEA-HT 10 can strengthen physiological antioxidant skin defenses, resulting in protection from photo-aging- which ultimately result in improvement of skin tone and appearance.



The results showcase that OLEA-HT 10 contains photo-protective effects against UV-induced erythema when topically applied (0.5%).



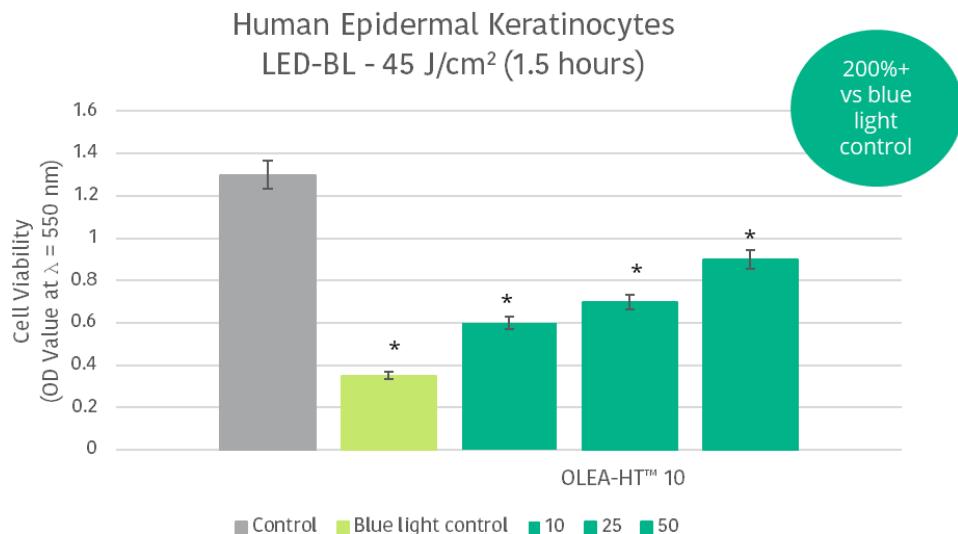
The results showcase that OLEA-HT 10 can strengthen physiological antioxidant skin defenses and protect against photo-aging.

\*\*Mean area under curve values (AUC $\pm$ SD) of UV-induced skin erythema before and after application of a cream containing 0.5% OLEA-HT 10.

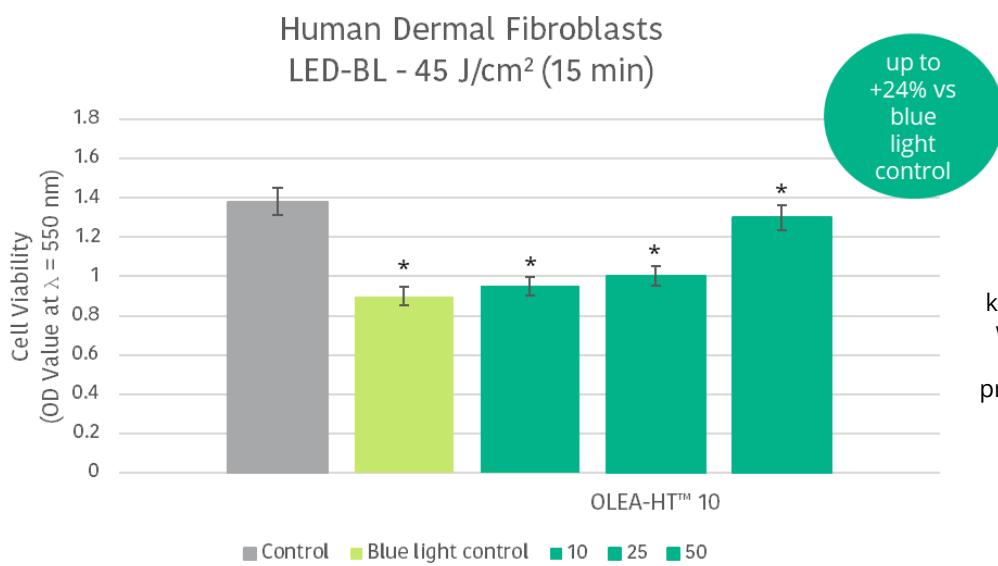
### RESULTS SHOWED THAT OLEA-HT 10;

- ✓ Supports inhibition of ROS production in skin
- ✓ Has significant photo-protective effect against UV-induced damage (photo-aging)
- ✓ Counteracts the development of wrinkles and skin hyperpigmentation caused by UV radiation
- ✓ Achieves a soothing effect through the inhibition of nuclear factor  $\kappa$ B (NF- $\kappa$ B), which is responsible for free radical-induced inflammatory activity

# In Vitro Study: Efficacy against blue light



See our partner BIONAP's published article in [PUBMED](#) on how OLEA-HT 10 prevents blue-light-induced damage!



Pre-treatment of keratinocytes and fibroblasts with **OLEA-HT 10** increases cell viability showing a protective effect towards LED-BL-induced damage.  
\*p < 0.05

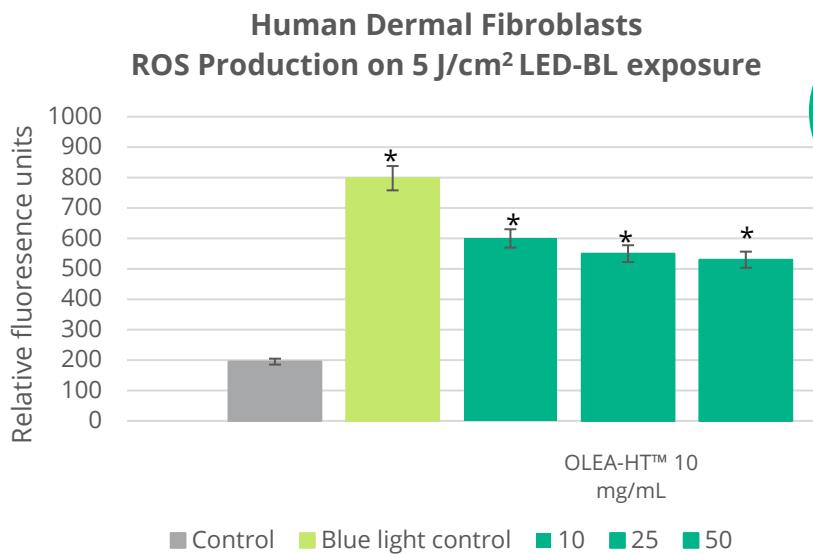
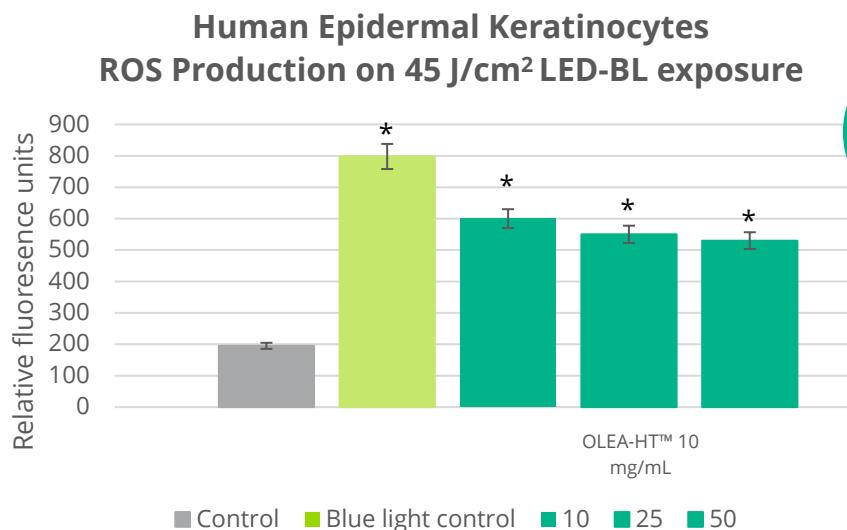
## RESULTS SHOW THAT **OLEA-HT 10**:

- 1) Protects keratinocytes and fibroblasts against blue light induced cell damage
- 2) Significantly reduces blue light induced ROS production
- 3) Protects DNA from blue light induced damage
- 4) Functions as an effective anti-aging solution
  - ✓ Decreases the production of both MMP-1 (collagenase) and MMP-12 (elastase)
  - ✓ Promotes collagen synthesis

# OLEA-HT 10 Antioxidant Powerhouse

Appearance @ 25°C	Yellow Powder
Odor	Odorless
pH range	3.5 - 6.5
Recommended Use Level	0.5 - 2%

## In Vitro Study: Reduction of ROS generation



## Formulation guidelines

OLEA-HT 10 is recommended for body and face formulations (emulsions, lotions, gels, and detergents).

Recommended use levels start at 0.5% and may go up to 2%.

Soluble in water.