

Aleppo Tonic™



bioactive cellular oil from Mediterranean Aleppo Pine

Actera

At the intersection of ancestral rituals and modern extraction technology sits a powerful skin-protecting extract – Aleppo Tonic. This bioactive lipid extract is sustainably sourced from the Mediterranean Aleppo Pine Forests of northeastern Tunisia. Consumed since ancient times for their rich nutritional and therapeutic benefits, pine seeds are a natural source of precious lipids, tocopherols, and essential fatty acids for the skin. These polyunsaturated fats help maintain the vital lipid barrier of the skin, locking in moisture and keeping skin nourished, supple, and youthful. Aleppo Tonic also exhibits a powerfully protective antioxidant effect by significantly reducing UV and high energy visible (HEV) light-induced reactive oxygen species (ROS).

Pine seeds are released from their cones between 8-10 weeks after maturation. A modern green technology, known as supercritical CO₂ extraction, is used to access and preserve the valuable bioactive phytonutrients in the pine seeds. This method results in potent, highly stable extracts without residual solvents or potentially harmful residues.

INCI

Pinus halepensis (Aleppo pine) seed oil

Physical Description

Clear yellow liquid

Benefits

- Oxidative stress protection
- Anti-inflammatory
- Hydration

Formulation Guidelines

- Use level: 0.1 – 5%
- Add to the formula after forming the emulsion at temperatures below 50°C
- Oil soluble

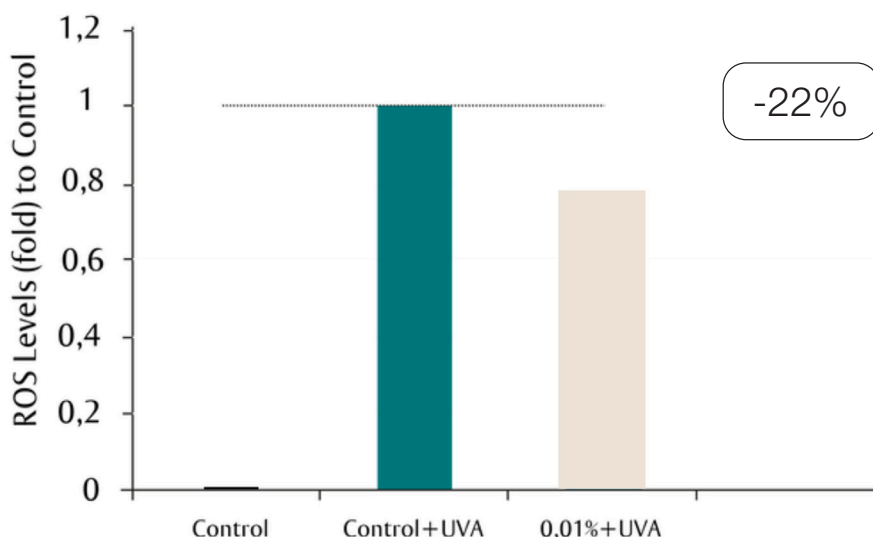
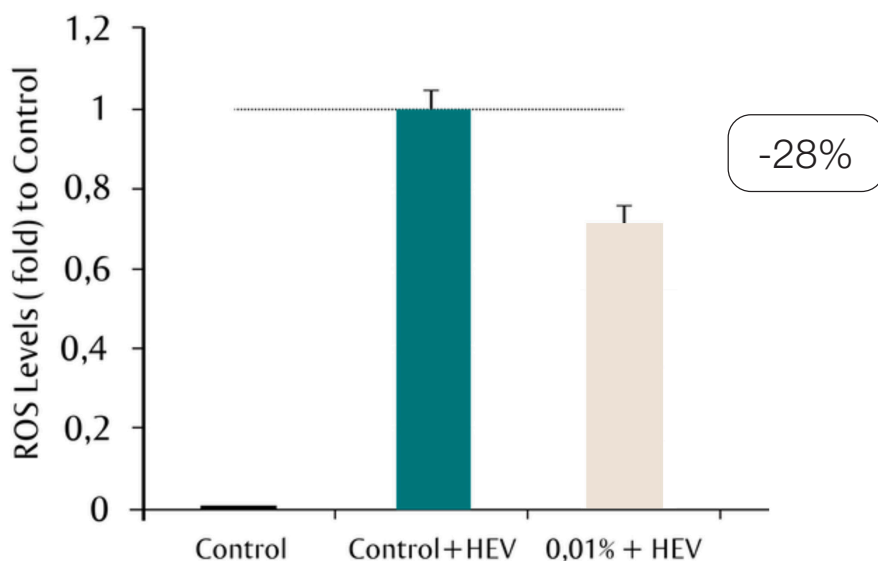
Applications

- Face and body products
- UV, HEV, and blue light protection
- Restorative anti-aging treatments
- Moisturizing lotions or serums



Clinical Results

The protective antioxidant effect of Aleppo Tonic was studied in-vitro on human keratinocyte cells (HaCaT). Cells were exposed to high energy visible light (blue light) and UVA light for 30 min (aprox. dose 120 J/cm² and 3 J/cm², respectively) to induce an environment of oxidative stress. Significant reduction in damaging reactive oxygen species was observed in cells treated with 0.01% Aleppo Tonic.



Aleppo Tonic reduces oxidative stress by 22-28%.

Actera

66 Walker Lane • Newtown, PA 18940 • USA

+1 (215) 525-4564

acteraingredients.com