



AFFRON EYE®

Why use this material?

AffronEYE® is a premium saffron (*Crocus sativus* L.) extract with 100% natural carotenoids. The main carotenoid compound in saffron, crocin, is believed to possess anti-inflammatory, anti-oxidative and neuroprotective properties, which protect the eyes from bright light damage, improve blood circulation, neutralise free radicals and help prevent macular degeneration. AffronEYE® is a natural and safe alternative to boosting overall eye health and visual performance.

Cultivated in Spain from *Pharmactive Biotech's* own flower fields, AffronEYE® has the fastest absorption time compared to other carotenoids on the market. It is DNA-certified for *Crocus sativus* L. and created with patented AFF®ON Cool-Tech extraction technology to concentrate and protect the actives in saffron.

AffronEYE® is standardised into crocins by HPLC (>3% dry basis) and is suitable for formulation into liquids, ointments, capsules, softgels and tablets.

AffronEYE® won The NutraIngredients Asia Awards 2019 for **Ingredient of the Year for Healthy Ageing.**

The science behind the indications

Saffron is used traditionally as a stress-reliever, adaptogen, aphrodisiac and expectorant. Pharmacological studies have also demonstrated its possibility in protecting against retinal stress.

Questions? Reach Optigen Ingredients through:
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The science behind the indications

AffronEYE®'s main mechanisms of action include:

- **Antioxidant:** The high antioxidant levels in saffron may help induce a reduction in intraocular pressure. Both long and short-term oxidative stress exposure can negatively affect ocular health and lead to eye health disorders.
- **Antiapoptotic:** Continuous exposure to bright light and environmental stress on the eyes can cause death of the photoreceptors in the eye. Saffron may help increase the oxygen delivered to the photoreceptors in the eye, protecting them from death.
- **Anti-inflammatory:** Saffron decreases inflammation of the retina by reducing the body's response to microglia activation and preventing damage.

Clinical info

In a 3 month placebo-controlled, double-blind crossover study, 40 patients with early Age-Related Macular Degeneration (AMD) dosed on either saffron or a placebo. The results showed that saffron supplementation may significantly improve macular thickness in patients with wet AMD after treatment for 6 months. The study's results reflect that of other clinical trials that also showed a significant improvement in retinal function with antioxidant supplementation.

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Lashay A, Sadough G, Ashrafi E, Lashay M, Movassat M, Akhondzadeh S. Short-term Outcomes of Saffron Supplementation in Patients with Age-related Macular Degeneration: A Double-blind, Placebo-controlled, Randomized Trial. *Med Hypothesis Discov Innov Ophthalmol*. 2016;5(1):32-38.