

SAFFR'ACTIV[®] Vision

Look high, Look safe,
Look healthy

Visual performance and eye health are affected by oxidative stress in humans. Indeed, a stressed life, greater use of electronic screens, sedentary life and longer working hours behind computers are all contributing factors to the potential development of this condition.

GPE, pioneer in saffron ingredients for nutraceutical industry, has developed SAFFR'ACTIV[®] Vision, a premium saffron extract, specifically designed to support visual decline.

SAFFR'ACTIV[®] Vision is standardized in 2 key active compounds very well described in scientific bibliography: Crocins $\geq 3,5\%$ and Safranal $\geq 2\%$.

Analysed in every batch by UV and HPLC.

SAFFR'ACTIV[®] Vision to contribute to visual function

SAFFR'ACTIV[®] is a saffron extract rich in crocins, one of the main actives of saffron in terms of eyes benefits. The crocins found in saffron extracts, similar to SAFFR'ACTIV[®], have been proven to positively impact visual function, without side effects. Crocins maintain retinal morphology, participate in

the visual cycle regulation, support intraocular pressure, help against light-induced death in neural retinal photoreceptors, among other things. Then, with a complex way of action not only due to the effect of crocins, saffron extract shows efficacy on visual performance¹⁻⁶.



BIBLIOGRAPHY: Helps the visual function

Retinal flicker sensitivity and visual acuity

Randomized placebo control clinical trials made on age-related macular degeneration (AMD) patients with 20 mg saffron supplementation, for 3 months, indicated saffron significantly changes the **macular fERG parameters**, improves **retinal flicker sensitivity**, and improves visual acuity and **contrast sensitivity**^{2,6}.

Study *in vivo* investigated effect of crocin on visual **performance in light damaged** mice retinas, exposed 30 days at LED light, 12 hours by days. Treatment with crocin allowed to limit damages induced by LED light, so can prevent the declining of visual acuity (Figure 1) and visual contrast sensitivity function (Figure 2)⁴.

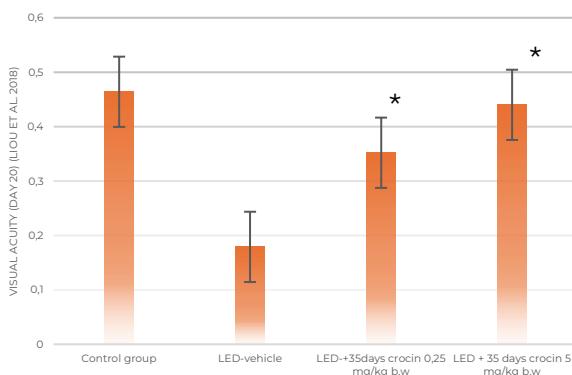


Figure 1. Effect of crocin treatment on visual acuity

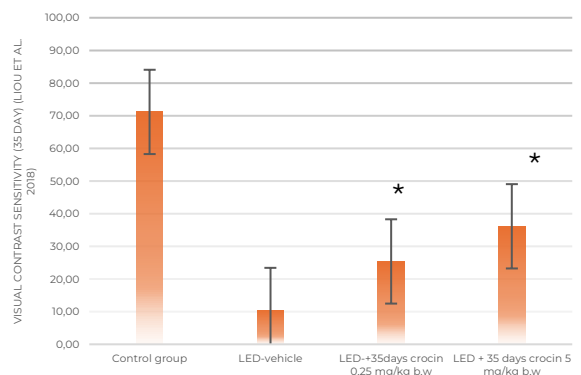


Figure 2. Effect of crocin on visual contrast sensitivity

Technical Data

Active compounds	Active compounds ≥ 5,5% (Crocins ≥ 3,5%, by UV&HPLC, Safranal ≥ 2% analysed by UV)	
Recommended dosage	20 mg/day for 12 weeks	
Several possible galenic forms to bring a complete answer to customers	Food supplements: Tablets, capsules, softgels, sachets, sticks, syrup liquids, spray, strips. Traditions food: Fruit juices, sweets, ice cream, chewing gums, chocolate, soups and sauces.	
Available references (Organic available)	SAF 3,5 L SAF 3,5 C PIM	aqueous solution powdered extract on maltodextrin carrier



References

1. Di Marco, S., V. Carnicelli, N. Franceschini, M. Di Paolo, M. Piccardi, S. Bisti and B. Falsini (2019). "Saffron: A Multitask Neuroprotective Agent for Retinal Degenerative Diseases." Antioxidants (Basel) 8(7).
2. Falsini, B., M. Piccardi, A. Minnella, C. Savastano, E. Capoluongo, A. Fadda, S. Bisti (2010). "Influence of saffron supplementation on retinal flicker sensitivity in early age-related macular degeneration." Invest Ophthalmol Vis Sci 51(12): 6118-6124.
3. Jabbarpoor Bonyadi, M. H., S. Yazdani and S. Saadat (2014). "The ocular hypotensive effect of saffron extract in primary open angle glaucoma: a pilot study." BMC Complement Altern Med 14: 399.
4. Liou, J.-C., S.-L. Yang, P.-H. Wang, J.-L. Wu, Y.-P. Huang, B.-Y. Chen and M.-C. Lee (2018). "Protective effect of crocin against the declining of high spatial frequency-based visual performance in mice." Journal of Functional Foods 49: 314-323.
5. Maccarone, R., S. Di Marco and S. Bisti (2008). "Saffron supplement maintains morphology and function after exposure to damaging light in mammalian retina." Invest Ophthalmol Vis Sci 49(3): 1254-1261.
6. Riazi, A., Y. Panahi, A. A. Alishiri, M. A. Hosseini, A. A. Karimi Zarchi and A. Sahebkar (2016). "The impact of saffron (Crocus sativus) supplementation on visual function in patients with dry age-related macular degeneration." Italian Journal of Medicine 10.

OTHER APPLICATIONS FOR SAFFR'ACTIV®

Relaxation
Sleep Disorders
Mood

Women's health
Proven to positively impact various aspects of women's well-being, including effect on menstruation, and libido

ADHD
Proven to positively impact kids with attention deficit / hyperactivity disorders



COMERCIAL QUÍMICA MASSÓ, S.A.
Viladomat, 321, 5º Tel. +34 93 495 25 00
08029 Barcelona SPAIN food@cqmasso.com



www.greenplantsextracts.com
www.saffractiv.com