



CROCUS SATIVUS EXTRACT

INNOVATIVE ANTI-STRESS PHYTOINGREDIENT

Crocus Sativus Extract is a natural extract derived from the red stigmas of the *Crocus sativus* L (Saffron Flower). It is used as natural approach to reducing the feelings of stress and anxiety.


sb

Galenic forms available

- **Liquid** for hydrophilic or lipophilic systems such as syrups and drinks.
- **Powder** for the manufacture of solid forms such as tablets, capsules or microcapsules.

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Quality

- **Safranal:** 2 %
- **Crocin:** 1.5 %
- Regular quality controls
- Guarantee 100 % pure, without adulterations
- Organic Quality Available 

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Applications

- **Functional foods:** fruit juices, sweets, chocolates, soups, sauces, chewing gums...
- **Food supplements:** softgels, hardgels, tablets, capsules...

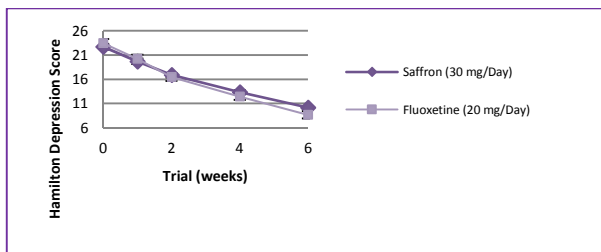
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Formulation

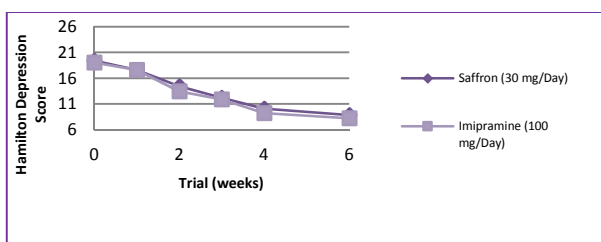
- Easy to formulate.
- Recommended dosage: 30 mg/ day (2*15 mg) for 4 to 6 weeks treatment
- Two galenic forms available for different applications.
- A low efficient dose (30 mg).

Treatment of mild to moderate depressions

sb Clinical studies have demonstrated that saffron extract (*Crocus sativus* L) administration shows positive effects in patients who suffer mild to moderate depression.



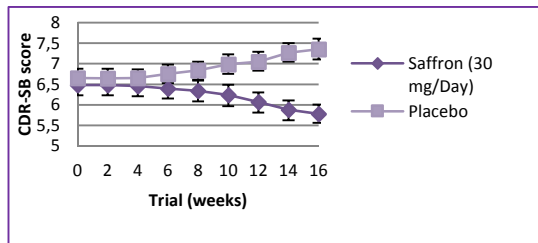
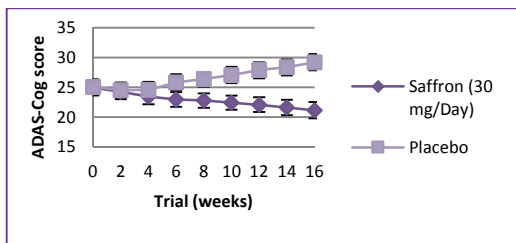
Double blind randomized
N = 40 patients
Fluoxetine is an active molecule found in antidepressants
Saffron reduces the HAM-D score by 12.5
Fluoxetine reduces the HAM-D score by 14.8
HAM-D: Hamilton Depression



Double blind randomized
N = 30 patients
Imipramine is an active molecule found in antidepressants
Saffron reduces the HAM-D score by 10.6
Imipramine reduces the HAM-D score by 10.8
HAM-D: Hamilton Depression

Improvement of cognitive performance

sb Clinical studies have demonstrated that saffron extract (*Crocus sativus* L) administration shows positive effects in the treatment of mild to moderate Alzheimer's disease.



Double blind randomized
Placebo controlled
N = 46 patients
Saffron reduces the ADAS-Cog score by **3.69** (+/- 1.69) whereas **placebo** raises the ADAS-Cog score by **4.08** (+/- 1.34)
Saffron reduces the CDR-SB score by **0.67** (+/- 0.24) whereas **placebo** raises the CDR-SB score by **0.63** (+/- 0.45)
AD = Alzheimer's disease
ADAS-Cog = Alzheimer's Disease Assessment Scale Cognitive
CDR-SB = Clinical Dementia Rating scale Sum of Boxes

Bibliographic reference:

1. Akhondzadeh S. et al. *Crocus sativus* L. in the treatment of mild to moderate depression : a doubleblind, randomized and placebo-controlled trial. *Phytotherapy Research*, 19 (2005) 148-151.
2. Akhondzadeh S. et al. Comparison of *Crocus sativus* L. and imipramine in the treatment of mild to moderate depression : a pilot double-blind randomized trial [ISRCTN45683816]. *BMC Complementary and Alternative Medicine*, 4 (2004) 12-16.
3. Noorbala A.A. et al. Hydro-alcoholic extract of *Crocus sativus* L. versus fluoxetine in the treatment of mild to moderate depression : a double-blind, randomized pilot trial. *Journal of Ethnopharmacology*, 97 (2005) 281-284.
4. Akhondzadeh S, Shafiee Sabet M, Harirchian MH, et al. A 22-week, multicenter, randomized, double-blind controlled trial of *Crocus sativus* in the treatment of mild-to-moderate Alzheimer's disease. *Psychopharmacology (Berl)*. 2010 Jan;207(4):637-43.