

سافروتین  
SaffroTIn®

Reduces **Alzheimer's** disease Symptoms



Patent registration No. 83169



گیاهان GREEN  
سبز PLANTS  
زندگی OF LIFE

The active ingredient of Saffrotin is derived from the Iranian herb of Saffron.

In Alzheimer's, neuronal cell death occurs which leads to brain shrinkage. Studies show that the Crocin in Saffrotin prevents the death of brain cells and brain shrinkage.

The main culprit in the brain of the affected people is the aggregation of amyloid-beta fibrils; the active ingredients in Saffrotin prevent such fibrils formation. Free radical and oxidative stress play important role in the formation and progress of Alzheimer's. The active ingredients in Saffrotin are powerful antioxidants and free radical scavenger.

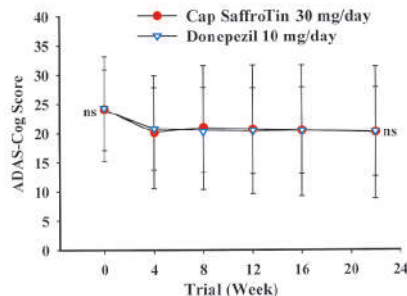
Disorders in Glutamate transporter and its receptors play important role in formation of Alzheimer's which are antagonized by active ingredients in Saffrotin.

Low levels of serotonin (the feel-good hormone) in the brain may cause depression, behavioral changes and Alzheimer's in the elderly. Saffrotin has proved to increase the secretion level of serotonin in the brain. In various pre-clinical tests, saffron has improved memory & behavioral activities.

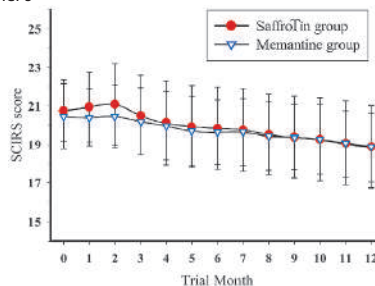
In addition to the effects of standardized saffron extract on Alzheimer's symptoms, this substance has got anti-tumor properties, is sight enhancing, promotes blood circulations and also stomach and kidney functions and above all provides better social interactions and vivacity.

### Comparison of Saffrotin with Memantine and Donepezil:

Green Plants of Life have conducted different clinical trials comparing Donepezil and Memantine with Saffrotin, and have gained positive, promising results. Saffrotin capsules showed to be comparable to Donepezil and Memantine, in treatment of mild to severe AD in these studies, with significantly lowers rates of side effects.



Comparison between SaffroTin and Donepezil in patients with Alzheimer's



Comparison between SaffroTin and Memantine in patients with Alzheimer's

### References:

- 1: Akhondzadeh S, Shafee Sabet M, Harirchian MH, Togha M, Cheraghmakani H, Razeghi S, Hejazi SS, Yousefi MH, Alimardani R, Jamshidi A, Rezaadeh SA, Yousefi A, Zare F, Moradi A, Vossoughi A. A-22week, multicenter, randomized, double-blind controlled trial of Crocus sativus in the treatment of mild-to-moderate Alzheimer's disease. *Psychopharmacology* 643-637 :207 ;2010
- 2: Akhondzadeh S, Shafee Sabet M, Harirchian MH, Togha M, Cheraghmakani H, Razeghi S, Hejazi SS, Yousefi MH, Alimardani R, Jamshidi A, Rezaadeh SA, Yousefi A, Zare F, Moradi A, Saffron in the treatment of patients with mild to moderate Alzheimer's disease: a 16week, randomized and placebo controlled trial. *J Clin Pharm Therapeutics* 2010 (in press)
- 3: Akhondzadeh S, Fallah-Pour H, Afkham K, Jamshidi AH, Khalighi-Cigroudi F. Comparison of Crocus sativus L. and imipramine in the treatment of mild to moderate depression: a pilot double-blind randomized trial [ISRCTN45683816]. *BMC Complement Altern Med* 4:12 2004.
- 4: Noorbala AA, Akhondzadeh S, Tahmacebi-Pour N, Jamshidi AH. Hydro-alcoholic extract of Crocus sativus L. versus fluoxetine in the treatment of mild to moderate depression: a double-blind, randomized pilot trial. *J Ethnopharmacol.*;2005 4:281-97.
- 5: Akhondzadeh S, Tahmacebi-Pour N, Noorbala AA, Armini H, Fallah-Pour H, Jamshidi AH, Khani M. Crocus sativus L. in the treatment of mild to moderate depression: a double-blind, randomized and placebo-controlled trial. *Phytother Res.*;2005 5:1-19:148.



## What is Alzheimer's?

Alzheimer's disease is the most common form of dementia in the elderly.

According to World Health Organization, presently 56 million people are stricken and this number is anticipated to double in 2030 and to triple in 2050. Alzheimer's disease is the sixth leading cause of death and unlike other causes, it is increasing.

This disease starts with short term memory loss and ends with forgetting almost everything, even one's self. Cognition impairment and memory loss are among the main symptoms of Alzheimer's that interfere with the power of thinking, judgement, problem solving and even daily chores. Depression, behavioral & speech problems and disorientation are among other symptoms of Alzheimer's. Despite vast investigations, up to this date, there is no definite cure against Alzheimer's and the present remedies can only partially control the symptoms.

The present synthetic medications are not only unable to control all the symptoms of Alzheimer's but also have side effects such as depression, restlessness, irritability, headache, double incontinence, dizziness, stomach bleeding, nausea, sickness, myalgia, lack of appetite, ataxia, cardiovascular problems, skin rash, CNS conditions and the like.

## SaffroTin: the pride of Iran and Iranians

Green Plants of Life is proud that with the close cooperation of the highly known scientific centers of Iran for the pre-clinical and clinical trials (Tehran and Zanjan medical schools, Roozbeh Psychiatry hospital, Tehran's Institute of Medicinal herbs, Ariamedicina Research Institute with the supervision of Dr. Shahin Akhonzadeh et al), have succeeded in the formulation and presentation of the first herb-based medicine which has proved to be as competent as the present synthetic medicines for Alzheimer's without the above mentioned

side effects.

We have also received the Ibn-e Sina prize for the formulation of this first standardized herbal medicine in its 12th festival with the presence of the Minister of Health.

We have also got vast investigations on the efficacy of Saffron active ingredients on depression, PMS and Sexual dysfunction which have been cited by the following journals:

- Journal of Affective Disorders.
- Psychiatric Clinic of North of America.
- Human Psychopharmacology.
- Psychopharmacology (Berl).
- Journal of Tehran Heart Center.
- Journal of Clinical Pharmacy and Therapeutics.
- BJOG.
- Progress in Neuropsychopharmacology Biological Psychiatry.
- Phytotherapy Research.
- Journal of Ethnopharmacology.
- BMC Complementary Alternative Medicine and Journal of Medicinal Plants.

SaffroTin was introduced in the last Pharmacology seminar in 2013 in London.

In Green Plants of Life Co. Ltd., we are proud that with the basis of thousands years of experience on Saffron, we have been able to collect, process, extract and take share in vast clinical trials, formulate and introduce the first herbal medicine of its kind to the world.

Each SaffroTin capsule contains 15 mg standardized saffron extract of which one of the main ingredients is Crocin. The clinical trails show that SaffroTin capsule is presently the most effective remedy to control the symptoms of Alzheimer's taking 30 mg daily (2 capsules each 12 hours).

SaffroTin has been internationally patented in April 2014 (No: 83169).

Miraculous effects of SaffroTin against Alzheimer's:



# سافروتین SaffroTin®



IRC: 1228172960

A product of Green Plants of Life  
Tehran - IRAN



گیاهان GREEN  
سبزی PLANTS  
زندگی OF LIFE

Tel : +9821 - 22020352 - 4

Fax : +9821 - 22020353

E mail : exp@gpl.ir

w w w . g p l . i r