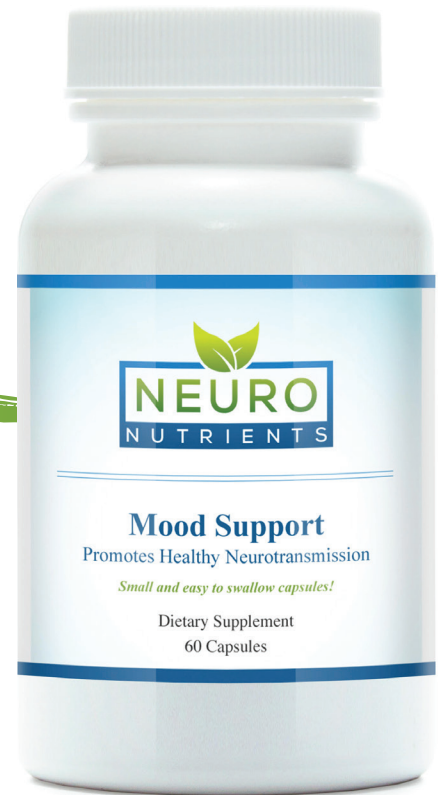




Mood Support

Promotes Healthy Neurotransmission



Directions:

Ages 6-8 years take 1 capsule daily, ages 9+ years take 2 capsules daily, or take as directed by your healthcare provider. Take with food.

Serving Size: 2 capsules (size 3 caps) for a 30 day supply

Ingredients:

Riboflavin (Riboflavin 5 Phosphate) 10.00 mg, Vitamin B-6 (Pyridoxal 5 Phosphate) 10.00 mg, 5-methyltetrahydrofolate, calcium salt, 5000.00 mcg (8500 mcg DFE), Folinic Acid (Folate) 2500.00 mcg (4250 mcg DFE), Methylcobalamin (Vitamin B-12) 1000.00 mcg, Zinc (TRAACS® Zinc Bisglycinate Chelate) 23.00 mg, L-5-Hydroxytryptophan (5-HTP) 100.00 mg, SATIEREAL® (Saffron Extract, crocus sativus) 30.00 mg

Clinical Applications:

- Designed to support optimal production of neurotransmitters
- Promotes a healthy and bright mood
- Supports emotional regulation and balance
- Supports coping with anxious feelings
- Supports healthy eating behaviors
- Supports calming irritability and moodiness when on stimulant medications for ADHD

Description:

Many parents and patients want to explore what they can do to naturally address their mood without using pharmaceutical options as the first step. Mood Support was formulated using evidence based science, and years of clinical experience in functional and integrative medicine, to carefully formulate this unique nutraceutical combination to support mood naturally. This product includes a unique combination of amino acids, bioactive nutrients, minerals, and herbal ingredients that help optimize neurotransmitter production and promote a healthy and balanced mood.

Disclaimer: These statements have not been evaluated by the Food and Drug Administration. Our products are not intended to diagnose, treat, cure, or prevent any disease.

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CN27346

SATIEREAL® is a saffron extract (*crocus sativus*) from the stigma of the saffron flower. This is a highly concentrated, standardized, patented and propriety extract of saffron (standardized to >0.3% safranal) used in clinical research.

Caution: If you are pregnant, nursing or taking any medications for psychiatric purposes such as anxiety or depression, consult your health care professional before taking this product.

Suggested Use: Ages 6-8 years take 1 capsule daily, ages 9+ years take 2 capsules daily, or take as directed by your health care provider. Take with food.

Store in a cool, dry place with the lid tightly closed. Keep out of reach of children.

CAUTION: If you are pregnant, nursing or taking any medications for psychiatric purposes such as anxiety or depression, consult your health care provider before taking this product.

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

Manufactured for:
Neuro Nutrients
5501 Balcones Drive, Suite A, #305
Austin, Texas 78731
(512) 599-8850
Made in a GMP Compliant Facility in the U.S.



CN27344 FRESHLY MADE: APR22



Mood Support

Promotes Healthy Neurotransmission

Small and easy to swallow capsules!

Dietary Supplement
60 Capsules

Supplement Facts

Serving Size 2 Capsules
Servings Per Container 30

	Amount Per Serving	%DV
Riboflavin (as Riboflavin 5 Phosphate)	10 mg	769%
Vitamin B6 (as Pyridoxal 5 Phosphate)	10 mg	588%
Folate (as 5-methyltetrahydrofolate, calcium salt)	8500 mcg DFE (5000 mcg)	2125%
Folate (as folic acid, calcium salt)	4250 mcg DFE (2500 mcg)	1063%
Vitamin B12 (as Methylcobalamin)	1000 mcg	41667%
Zinc (as TRAACS® Zinc Bisglycinate)	23 mg	209%
L-5-Hydroxytryptophan (5-HTP) (Griffonia simplicifolia)(seed extract)	100 mg	†
Satiereal® saffron extract (<i>Crocus sativus</i> , stigmas) [std. to 0.3% safranal]	30 mg	†

† Daily Value (DV) not established

Other ingredients: Micro Crystalline cellulose (USP), Vegetable Capsule (cellulose, purified water). Wheat Free, Dairy/ Milk Free, Free of Artificial Colors/Flavors, Egg Free, Shellfish Free, Tree Nut Free, Peanut Free

Formula Ingredient And Peer Reviewed Supportive References:

Zinc (TRAACS® Zinc Bisglycinate Chelate)

Zinc is an essential mineral needed for the brain and body to thrive. Zinc is involved in numerous mechanisms of cellular metabolism, playing a role in growth and development, immune function, DNA synthesis, healthy neurotransmission and more. Because the body does not store excessive zinc, a regular dietary intake must be consumed to have ideal levels in the body. Dietary sources of zinc come primarily from animal protein, with oysters being the highest, second to beef and then crab (3). Lower levels of serum zinc have been associated in population studies to correlate with 28% higher levels of depression (2, 4). Clinical and peer reviewed science demonstrate zinc can reduce and/or alleviate depression (5). When added as an adjunct therapy to prescription medication for depression, zinc also demonstrated improvement in depressive symptoms (1).

- Da Silva LEM, de Santana MLP, Costa PRF, Pereira EM, Nepomuceno CMM, Queiroz VAO, de Oliveira LPM, Machado MEPDC, de Sena EP. Zinc supplementation combined with antidepressant drugs for treatment of patients with depression: a systematic review and meta-analysis. *Nutr Rev.* 2021 Jan 1;79(1):1-12. doi: 10.1093/nutrit/nuaa039. PMID: 32885249.

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2. Li Z, Li B, Song X, Zhang D. Dietary zinc and iron intake and risk of depression: A meta-analysis. Psychiatry Res. 2017 May;251:41-47. doi: 10.1016/j.psychres.2017.02.006. Epub 2017 Feb
3. PMID: 28189077. 3. National Institute of Health, Office for Dietary Supplements, Zinc <https://ods.od.nih.gov/factsheets/Zinc-HealthProfessional/>
4. Swardfager W, Herrmann N, Mazereeuw G, Goldberger K, Harimoto T, Lanctôt KL. Zinc in depression: a meta-analysis. Biol Psychiatry. 2013 Dec 15;74(12):872-8. doi: 10.1016/j.biopsych.2013.05.008. Epub 2013 Jun 24. PMID: 23806573.
5. Yosae S, Clark CCT, Keshtkaran Z, Ashourpour M, Keshani P, Soltani S. Zinc in depression: From development to treatment: A comparative/ dose response meta-analysis of observational studies and randomized controlled trials. Gen Hosp Psychiatry. 2022 Jan-Feb;74:110-117. doi: 10.1016/j.genhosppsych.2020.08.001. Epub 2020 Aug 10. PMID: 32829928.

L-5-hydroxytryptophan (5-HTP)

L-5-hydroxytryptophan (5-HTP) is an amino acid that is the precursor of the mood regulating neurotransmitter serotonin and is made from L-tryptophan. Healthy levels of serotonin are needed for regulating mood, appetite, and sleep. Giving 5-HTP as an amino acid supplement is bioavailable to the brain and body because it does not have to be converted by the enzyme tryptophan hydroxyls (which some individuals have limitations in their conversions) and more easily crosses through the blood brain barrier (1). Patients who have taken 5-HTP for depression have seen improvements in their symptoms and have shown increased rates of depression remission (3). In adults, 5-HTP was demonstrated to be equally as effective to those taking it for depression as fluoxetine (otherwise known as Prozac) (2).

-
1. Birdsall TC. 5-Hydroxytryptophan: a clinically-effective serotonin precursor. Altern Med Review 1998; (3)4: 271-1998.8. Fernstrom JD, Fernstrom MH. Tyrosine, phenylalanine, and catecholamine synthesis and function in the brain. J Nutr 2007;137;1539S-1547S; discussion 1548S.
 2. Jangid P, Malik P, Singh P, Sharma M, Gulia AK. Comparative study of efficacy of l-5-hydroxytryptophan and fluoxetine in patients presenting with first depressive episode. Asian J Psychiatr. 2013 Feb;6(1):29-34. doi: 10.1016/j.ajp.2012.05.011. Epub 2012 Jul 12. PMID: 23380314.
 3. Javelle F, Lampit A, Bloch W, Häussermann P, Johnson SL, Zimmer P. Effects of 5-hydroxytryptophan on distinct types of depression: a systematic review and meta-analysis. Nutr Rev. 2020 Jan 1;78(1):77-88. doi: 10.1093/nutrit/nuz039. PMID: 31504850.

Methylated and Bioactive B Vitamins: Folate (methyl and folinic), B6 (pyridoxal 5 phosphate), B2 (riboflavin 5 phosphate), and B12 (methylcobalamin)

The blend of bioactive B vitamins were thoughtfully chosen for Mood Support because of their role in supporting healthy nervous systems, supporting methylation, growth and development, and improving mood and nervous system regulation. Folate, otherwise known as a water soluble B9 vitamin, is found most abundantly in food sources such as beef liver, boiled spinach, black eyed peas (8). In supplement form it is available in synthetic and more natural and active forms. Avoiding the synthetic form of folate known as folic acid, and including the types of reduced folates that support growth and development (folinic acid) help overcome genetic mutations that impair folate reduction (such as MTHFR) which was an essential part in creating this formula. In addition, folinic acid and methyl folate are more easily absorbed in the nervous system and brain, which also was a critical decision in product development. Food sources of B12 come primary from animal protein, most abundantly in beef liver, tuna, and clams. The absorption of B12 from food varies drastically from patient to patient, as some patients have genetic mutations that impede absorption via their intrinsic factors and transport genes that ultimately deliver B12 into the nervous system and brain. The bioavailability of B12 is nearly 50% higher when taken in supplement form (7). Folate and B12 deficiency has been demonstrated as a correlative factor in depression (4,10). Studies have shown taking folate with antidepressant medications can improve treatment response to major depressive disorders (2,9). In fact, mental health providers often use prescription forms of folate (the same ingredient used in Mood Support) such as Deplin or Enlyte, as a single agent to treat depression or as an adjunctive agent to improve depression treatment response (11). An important mechanism in the body using reduced folates is its ability to facilitate the clearance of homocysteine, a non essential amino acid, that in high levels, can put stress on the nervous and cardiovascular system (1,3). In addition to supporting the methylation process, other B vitamins, such as B6, B2, and B12, are essential co factors that can promote the biosynthesis, normalization, and balance of neurotransmitter production (5,6).and more easily crosses through the blood brain barrier (1). Patients who have taken 5-HTP for depression have seen improvements in their symptoms and have shown increased rates of depression remission (3). In adults, 5-HTP was demonstrated to be equally as effective to those taking it for depression as fluoxetine (otherwise known as Prozac) (2).

1. Chung, K. H., Chiou, H. Y., & Chen, Y. H. (2017). Associations between serum homocysteine levels and anxiety and depression among children and adolescents in Taiwan. Scientific reports, 7(1), 8330. <https://doi.org/10.1038/s41598-017-08568-9>
2. Coppen A, Bailey J. Enhancement of the antidepressant action of fluoxetine by folic acid: a randomised, placebo controlled trial. J Affect Disord. 2000 Nov;60(2):121-30. doi: 10.1016/s0165-0327(00)00153-1. PMID: 10967371.
3. Ganguly, P., & Alam, S. F. (2015). Role of homocysteine in the development of cardiovascular disease. Nutrition journal, 14, 6. <https://doi.org/10.1186/1475-2891-14-6>

4. Gilbody S, Lightfoot T, Sheldon T. Is low folate a risk factor for depression? A meta-analysis and exploration of heterogeneity. *J Epidemiol Community Health*. 2007 Jul;61(7):631-7. doi: 10.1136/jech.2006.050385. PMID: 17568057; PMCID: PMC2465760.
5. Mech AW, Farah A. Correlation of clinical response with homocysteine reduction during therapy with reduced B vitamins in patients with MDD who are positive for MTHFR C677T or A1298C polymorphism: a randomized, double-blind, placebo-controlled study. *J Clin Psychiatry*. 2016 May;77(5):668-71. doi: 10.4088/JCP.15m10166. PMID: 27035272.
6. Miller AL. The methylation, neurotransmitter, and antioxidant connections between folate and depression. *Altern Med Rev*. 2008 Sep;13(3):216-26. PMID: 18950248.
7. National Institute of Health, Office for Dietary Supplements, B12 Fact Sheet for Professionals, <https://ods.od.nih.gov/factsheets/VitaminB12-HealthProfessional/>
8. National Institute of Health, Office for Dietary Supplements, Folate Fact Sheet for Professionals, <https://ods.od.nih.gov/factsheets/Folate-HealthProfessional/>
9. Passeri M, Cucinotta D, Abate G, Senin U, Ventura A, Stramba Badiale M, Diana R, La Greca P, Le Grazie C. Oral 5'-methyltetrahydrofolic acid in senile organic mental disorders with depression: results of a double-blind multicenter study. *Aging (Milano)*. 1993 Feb;5(1):63-71. doi: 10.1007/BF03324128. PMID: 8257478.
10. Sachdev PS, Parslow RA, Lux O, Salonikas C, Wen W, Naidoo D, Christensen H, Jorm AF. Relationship of homocysteine, folic acid and vitamin B12 with depression in a middle-aged community sample. *Psychol Med*. 2005 Apr;35(4):529-38. doi: 10.1017/S0033291704003721. PMID: 15856723.
11. Stahl SM. L-methylfolate: a vitamin for your monoamines. *J Clin Psychiatry*. 2008 Sep;69(9):1352-3. doi: 10.4088/jcp.v69n0901. PMID: 19193337.

SATIEREAL® Saffron Extract (*crocus sativus*)

1. Saffron is a spice that has been used in cooking for thousands of years. In some of the highest quality forms of research conducted in clinical nutrition medicine, saffron extract has shown numerous benefits for the brain and body (1). Several double-blind, randomized, placebo-controlled clinical trials have shown saffron can improve mild to moderate depression (2,4,6). One study showed the same efficacy using saffron as compared to a prescription antidepressant medication (Celexa or Citalopram) (4). Another therapeutic benefit saffron extract has shown is to reduce snacking, improve feelings of satiety, and support weight loss (5). The proposed mechanism of action for this herbal extract is its role in inhibiting serotonin re-uptake. It is plausible this mechanism of action has contributed to research results being consistent in demonstrating reproducible outcomes in the reduction of depressive symptoms (3,7).

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1. Abu-Izneid T, Rauf A, Khalil AA, Olatunde A, Khalid A, Alhumaydhi FA, Aljohani ASM, Sahab Uddin M, Heydari M, Khayrullin M, Shariati MA, Aremu AO, Alafnan A, Rengasamy KRR. Nutritional and health beneficial properties of saffron (*Crocus sativus* L.): a comprehensive review. *Crit Rev Food Sci Nutr*. 2022;62(10):2683-2706. doi: 10.1080/10408398.2020.1857682. Epub 2020 Dec 17. PMID: 33327732.
 2. Akhondzadeh S, Tahmacebi-Pour N, Noorbala AA, Amini 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 Feb;19(2):148-51. doi: 10.1002/ptr.1647. PMID: 15852492.
 3. Dai L, Chen L, Wang W. Safety and Efficacy of Saffron (*Crocus sativus* L.) for Treating Mild to Moderate Depression: A Systematic Review and Meta-analysis. *J Nerv Ment Dis*. 2020 Apr;208(4):269-276. doi: 10.1097/ NMD.0000000000001118. PMID: 32221179.
 4. Ghajar A, Neishabouri SM, Velayati N, Jahangard L, Matinnia N, Haghighi M, Ghaleiha A, Afarideh M, Salimi S, Meysamie A, Akhondzadeh S. *Crocus sativus* L. versus Citalopram in the Treatment of Major Depressive Disorder with Anxious Distress: A Double-Blind, Controlled Clinical Trial. *Pharmacopsychiatry*. 2017 Jul;50(4):152-160. doi: 10.1055/ s-0042-116159. Epub 2016 Oct 4. PMID: 27701683.
 5. Gout B, Bourges C, Paineau-Dubreuil S. Satiereal, a *Crocus sativus* L extract, reduces snacking and increases satiety in a randomized placebo- controlled study of mildly overweight, healthy women. *Nutr Res*. 2010 May;30(5):305-13. doi: 10.1016/j.nutres.2010.04.008. PMID: 20579522.
 6. Kell G, Rao A, Beccaria G, Clayton P, Inarejos-García AM, Prodanov M. affron® a novel saffron extract (*Crocus sativus* L.) improves mood in healthy adults over 4 weeks in a double-blind, parallel, randomized, placebo-controlled clinical trial. *Complement Ther Med*. 2017 Aug;33:58-64. doi: 10.1016/j.ctim.2017.06.001. Epub 2017 Jun

13. PMID: 28735826.
7. Tóth B, Hegyi P, Lantos T, Szakács Z, Kerémi B, Varga G, Tenk J, Pétervári E, Balaskó M, Rumbus Z, Rakonczay Z, Bálint ER, Kiss T, Csupor D. The Efficacy of Saffron in the Treatment of Mild to Moderate Depression: A Meta-analysis. *Planta Med.* 2019 Jan;85(1):24-31. doi: 10.1055/a-0660-9565. Epub 2018 Jul 23. PMID: 30036891.