

# Ultra 5-HTP Formula

## DESCRIPTION

Ultra 5-HTP Formula capsules, provided by Douglas Laboratories, contain a synergistic combination of 5-HTP, vitamins, minerals and other nutrients designed to support mood and a sense of well-being.

## FUNCTIONS

Serotonin, an important brain neurotransmitter, is key in the regulation of appetite, mood, and melatonin production. The presence of serotonin in the brain is associated with a balanced emotional state. This is achieved in part by decreasing the activity of certain excitatory hormones, including dopamine and noradrenaline. Serotonin also acts as a satiety signal in the brain, thereby naturally regulating food intake. Additionally, as a precursor of melatonin, serotonin is involved in regulating sleep patterns.

As a metabolic intermediate in the conversion of tryptophan into serotonin, 5-HTP can also serve as a precursor of serotonin. 5-HTP offers a number of advantages over tryptophan. 5-HTP is derived naturally from the seeds of the Griffonia plant, unlike tryptophan which is produced synthetically or through bacterial fermentation. 5-HTP crosses into the brain more readily than tryptophan as it is able to cross the blood-brain barrier without competition for uptake. 5-HTP is significantly more effective than tryptophan; one 50 mg capsule of 5-HTP is roughly equivalent to 500 mg of tryptophan. Finally, research studies have shown 5-HTP to be safe at levels as high as 900 mg. As a result, 5-HTP is a safe and effective means of increasing brain serotonin levels.

As co-enzymes, the B vitamins are essential components in most major metabolic reactions. They play an important role in energy production, including the metabolism of lipids, carbohydrates, and proteins. B vitamins are also important for blood cells, hormones, and nervous system function. As water-soluble substances, B vitamins are not generally stored in the body in any appreciable amounts (with the exception of vitamin B-12).

Therefore, the body needs an adequate supply of B vitamins on a daily basis.

Herbs such as St. John's wort and Ginkgo biloba are widely recognized for their positive, supportive effects on mental and emotional function. Minerals such as magnesium, chromium and zinc play a wide variety of essential roles in the body and support optimum functioning of all the body's processes. Other nutrients such as L-Tyrosine, L-Glutamine and octacosanol are also included for their positive effects on mental and neurological well-being.

## INDICATIONS

Ultra 5-HTP Formula may be a useful nutritional supplement for individuals wishing support healthy mental function and increase their levels of brain serotonin.

## FORMULA (#85081)

### Two vegetarian capsules contain:

Vitamin A .....	1,000	I.U.
Vitamin C .....	100	mg
Vitamin E.....	30	I.U.
Thiamine.....	5	mg
Riboflavin .....	5	mg
Niacinamide.....	50	mg
Folic Acid .....	800	mcg
Vitamin B-12 .....	1,000	mcg
Pantothenic Acid .....	5	mg
Magnesium .....	50	mg
(from Magnesium Aspartate complex)		
Zinc.....	10	mg
(from Zinc picolinate complex)		
Chromium GTF .....	100	mcg
(Chromium Polynicotinate)		
5-HTP .....	125	mg
L-Tyrosine .....	100	mg
L-Glutamine .....	100	mg
Octacosanol .....	1,500	mcg
St. John's Wort(standardized) .....	30	mg
Ginkgo biloba(standardized) .....	15	mg

*(continued on reverse)*

Inositol.....25 mg  
Pyridoxal-5-Phosphate.....20 mg

## **SUGGESTED USE**

Adults take 2 vegetarian capsules daily with meals or as directed by physician.

## **SIDE EFFECTS**

No adverse side effects reported.

## **STORAGE**

Store in a cool, dry place, away from direct light.  
Keep out of reach of children.

## **REFERENCES**

Ahsan SK. Magnesium and cardiovascular diseases. *J Indian Med Assoc* 1997;95:185-8.  
Alvarado R, Contreras S, Segovia-Riquelme N, Mardones J. Effects of serotonin uptake blockers and of 5-hydroxytryptophan on the voluntary consumption of ethanol, water and solid food by UChA and UChB rats. *Alcohol* 1990;7:315-9.  
Angel I, Taranger MA, Claustre Y, Scatton B, Langer SZ. Anorectic activities of serotonin uptake inhibitors: correlation with their potencies at inhibiting serotonin uptake in vivo and 3H-mazindol binding in vitro. *Life Sci* 1988;43:651-8.

Birdsall TC. 5-Hydroxytryptophan: a clinically-effective serotonin precursor. *Altern Med Rev* 1998;3:271-80.

Blundell JE. Serotonin and appetite. *Neuropharmacology* 1984;23:1537-51.

Blundell JE, Leshem MB. The effect of 5-hydroxytryptophan on food intake and on the anorexic action of amphetamine and fenfluramine. *J Pharm Pharmacol* 1975;27:31-7.

Cangiano C, Ceci F, Cairella M, Cascino A, Del Ben M, Laviano A, Muscaritoli M, Rossi-Fanelli F. Effects of 5-hydroxytryptophan on eating behavior and adherence to dietary prescriptions in obese adult subjects. *Adv Exp Med Biol* 1991;294:591-3.

Preuss HG, Anderson RA. Chromium update: examining recent literature 1997-1998 [see comments]. *Curr Opin Clin Nutr Metab Care* 1998;1:509-12.

Raffa RB. Screen of receptor and uptake-site activity of hypericin component of St. John's wort reveals sigma receptor binding. *Life Sci* 1998;62:L265-70.

Schmidt U, Sommer H. [St. John's wort extract in the ambulatory therapy of depression. Attention and reaction ability are preserved]. *Fortschr Med* 1993;111:339-42.

Staffeldt B, Kerb R, Brockmoller J, Ploch M, Roots I. Pharmacokinetics of hypericin and pseudohypericin after oral intake of the hypericum perforatum extract LI 160 in healthy volunteers. *J Geriatr Psychiatry Neurol* 1994;7 Suppl 1:S47-53.

**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.**

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