

GABA with L-Theanine



Suppleme	nt Facts	5
Serving Size: 2 mL (4 Pumps) Servings Per Container: 25) Amount %Da PerServing Valu	
GABA	250mg	**
(Gamma Amino Butyric /	-	
L-Theanine	100mg	**
Phosphatidylcholine	134mg	**
(from purified sunflower	seed lecithin)	
**Daily Value not established		
Other Ingredients: Water vitamin E (as tocofersolan and tocopherols)		

Chronic stress has, unfortunately, become commonplace in our modern-day society. Chronic stress induces a profound shift in the nervous system, skewing the body towards a heightened sympathetic "fight-or-flight" response and a dampened parasympathetic "rest-and-digest" response.

Liposomal GABA with L-Theanine combines a highly bioavailable form of GABA, the body's primary inhibitory neurotransmitter, with the green tea-based compound L-theanine for optimal parasympathetic nervous system support, helping your patients achieve calm and relaxation amidst our frenetic world.

SOOTHE AND PROTECT THE MIND WITH BIOAVAILABLE GABA

GABA (gamma-aminobutyric acid) is produced by neurons in the brain and the

BENEFITS & APPLICATIONS:

- Alleviates stress and anxiety 7,8,10,14
- Supports a healthy mood¹¹
- Neuroprotective May protect the brain from age- and stress-related dysfunction⁶
- Promotes restorative sleep¹⁶

gastrointestinal tract, and functions as the body's principal inhibitory neurotransmitter.^{1,2} GABA balances the autonomic nervous system, inhibiting the sympathetic "fight-or-flight" response and enhancing the parasympathetic "rest-and-digest" response. Many pharmacological agents, including benzodiazepines, exert anxiolytic, analgesic, anticonvulsant, and sedative effects by modulating GABA receptor activity and increasing GABA availability.^{3,4}

Chronic stress induces an imbalance in excitatory and inhibitory neurotransmission, reducing GABA signaling and creating a vicious cycle of anxiety.⁵ GABA signaling may also decrease with age, leading to cognitive impairment.⁶ Supplemental GABA has been found to reduce stress and improve heart rate variability, a measure of autonomic nervous system balance.⁷ It also alleviates anxiety and improves sleep quality.⁸ Fascinatingly, GABA-loaded liposomes may also represent a promising therapy for the treatment of neurological diseases, such as Alzheimer's disease.⁹

L-THEANINE: A POTENT ANTI-STRESS INGREDIENT IN GREEN TEA

L-Theanine is an amino acid analogue derived from L-glutamate and L-glutamine that is found in high amounts in green tea. Clinical research indicates that L-theanine offers potent anti-stress effects, without causing drowsiness, and supports a positive mood and relaxation.^{10,11} In fact, L-theanine is proposed to be the reason why green tea-drinking monks experience such extraordinary calm and focus!

Research indicates that L-theanine exerts these effects by increasing alpha-wave activity in the brain, inhibiting excitatory glutamate neurotransmission, and modulating levels of serotonin, dopamine, and GABA in the central nervous system.^{12,13,14}

More recently, L-theanine has been revealed to have potent neuroprotective properties. It boosts levels of brain-derived neurotrophic factor (BDNF) and enhances long-term potentiation, a strengthening of neuronal synapses based on recent activity that is critical in learning and memory.^{15,16}

GABA AND L-THEANINE: BETTER TOGETHER

When it comes to inducing calm and relaxation, GABA and L-theanine work synergistically together. The compounds swiftly balance parasympathetic nervous system activity, supporting deep rest and relaxation. In fact, research has found that the synergistic combination of GABA and I-theanine dramatically decreases sleep latency while increasing deep, restorative non-REM (NREM) sleep.¹⁷

WHY LIPOSOMAL DELIVERY?

The bioavailability of L-theanine is limited to approximately 47 to 54 percent in ingested capsules and green and black tea, making high doses of I-theanine necessary to achieve therapeutic benefits.^{13,12} Furthermore, conventional oral forms of GABA do not readily cross the blood-brain barrier.⁸ Quicksilver Scientific's advanced liposomal delivery system offers an elegant solution to these problems, significantly enhancing the bioavailability of GABA and I-theanine and producing quick and powerful calming effects.

Quicksilver Delivery Systems[®] improves upon liposomal and emulsification technology with smaller, more stable particles made from the highest-grade ingredients available. In addition to exceptional absorption rates, these tiny liposomal and nanoemulsified particles enhance the lymphatic circulation of nutrients and intracellular delivery.^{18,19} The phospholipids, inherent in the liposomal and nanoemulsified formats, nourish cell membranes, promoting enhanced absorption of nutrients.

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