

L-THEANINE

CLINICAL APPLICATIONS

- *Promotes Relaxation Without Causing Drowsiness*
- *Improves Quality of Sleep*
- *May Support Blood Pressure Already Within the Normal Range*
- *Reduces Negative Side Effects of Caffeine*
- *Improves Focus, Attention, Learning Performance and Mental Clarity*

ENDOCRINE HEALTH

L-theanine is a naturally occurring, unique amino acid found in tea leaves. L-theanine has been shown to reduce stress and promote relaxation without causing drowsiness. It alleviates nervousness due to overwork and decreases irritability by contributing to a variety of changes in the brain. Human studies suggest it is also helpful in improving focus, attention and mental clarity while reducing the negative side effects of caffeine.

Overview

For centuries, green tea has been revered for its ability to boost brain function and promote a relaxed yet alert state. Modern research has revealed this widely consumed beverage contains large amounts of L-theanine, which has specific and positive effects on the brain and nervous system.

Brain and Nervous System Support

Human studies have shown there is a significant increase in alpha brain waves within 40 minutes of ingesting L-theanine. Alpha brain waves are associated with a state of wakeful relaxation as well as focus and creativity.¹ An eight-week, double-blind study found that 400 mg of L-theanine per day was safe and effective while also possessing neuroprotective, mood-enhancing and relaxation properties.² Another double-blind study showed L-theanine lowered heart rate, improved salivary IgA levels and reduced sympathetic nervous system activation, demonstrating its ability to support a healthy stress response.³

The stress-buffering mechanisms of L-theanine have been connected to its ability to increase serotonin and dopamine production in the brain. Research conducted on animal models suggests that L-theanine supports overall nervous system health and activity due to its positive effects on serotonin, dopamine

and GABA levels as well as its modulation of excitatory and inhibitory neurotransmission.^{4,5} Studies have shown L-theanine crosses the blood-brain barrier intact and can continue to balance neurochemistry by blocking glutamate transport, reducing levels of extracellular glutamate and supporting the release of dopamine and glycine from neurons.⁴⁻⁶

Liver Health, Detoxification, Antioxidant Status and Cardiovascular Support

Research designed to study ethanol metabolism and hepatic toxicity in animals suggests L-theanine increases specific liver enzyme activity that reduces blood ethanol concentration within one hour of ingestion compared to controls. It is also assumed L-theanine's effects on cytochrome P450 2E1 activity, glutathione recycling and antioxidant mechanisms enhance detoxification and preserve healthy liver function.⁷⁻⁹ L-theanine has also been shown to significantly impede hydrogen peroxide-induced cell death and therefore may play an important role in supporting liver health.¹⁰ Further studies demonstrate L-theanine, along with green tea polyphenols, provides substantial antioxidant activity, which supports healthy LDL and oxidation levels and may subsequently benefit cardiovascular health.^{11,12} Animal and human research also suggests L-theanine supports healthy blood pressure already within the normal range due to its ability to diminish the negative side effects of caffeine.¹³

Directions

1 capsule, 1 to 2 times per day or as recommended by your health care professional.

Does Not Contain

Gluten, corn, yeast, artificial colors and flavors.

Cautions

If you are pregnant or nursing, consult your health care professional before taking this product.

Supplement Facts ^{v1}		
Serving Size 1 Capsule Servings Per Container 60		
	Amount Per	% Daily
	Serving Value *	
L-Theanine (Suntheanine®)	200 mg	
* Daily Value not established.		

References

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LT-PDN-172-A

† 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.

EFFICACY
the power of 