

*D*rink it in.

The sun.

The science.

The focus  
to find calm  
in the energy  
all around.

*Suntheanine*®



### *Elevate Your Next Beverage*

Suntheanine can boost your beverage business by improving focus and attention in energy drinks, promoting a calming, relaxing experience.



### *Did you know . . .*

Consumers are searching for a new beverage that can deliver on focus, and calm without the negative effects of caffeine? So they look for Suntheanine by name.



### *Ideal Ingredient*

An easy ingredient to incorporate, Suntheanine is odorless, colorless, tasteless, and stable. Use in many categories like juices, teas, energy drinks, and enhanced waters.



# Focus on Innovation

## What is Suntheanine?

Suntheanine is the trade name for Taiyo's isomerically pure L-theanine produced via a patented enzymatic fermentation method. Suntheanine is easily incorporated into foods, beverages and supplements, with no negative impact on taste, color or stability of the product. Suntheanine is Kosher, Halal, and GMO Free.



## What is the regulatory status?

Since 1994, Suntheanine has been safely consumed in beverages, foods and supplements. Suntheanine has GRAS affirmation with a Letter of No Objection by the U.S. FDA (GRN000209) and regulatory approval in Canada and other countries.



## What's the recommended use?

Suntheanine is most effective in the 50 to 200 mg range based on clinical studies. Suntheanine is not affected by food intake so it may be consumed at any time. Effects can typically be felt within 20 to 30 minutes.



## What claims can be made?

Based on clinical studies conducted specifically on Suntheanine brand, Suntheanine improves focus, attention and clarity, reduces the negative effects of caffeine, improves the quality of sleep, and promotes a calming, relaxing experience.\* Please contact us for a full list of substantiated claims.



## Product Identification

Chemical name:	L-glutamic acid-γ-monoethylamide
Synonyms:	L-theanine, N-ethyl-L-glutamine
Chemical Formula:	C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
CAS Registry No:	3081-61-6
HTS Number:	2924.19.8000

## Specifications

Description	White crystalline powder
Purity	Not less than 98.0% L-theanine
Particle Size	Not less than 95.0% through
Bulk Density	0.25 ~ 0.50 g/cm <sup>3</sup>
Loss on Drying	Not more than 1.00%
Residue on Ignition	Not more than 0.20%
pH	5.0 – 6.0
Chloride (as Cl)	Not more than 0.021%
Specific Rotation	+7.7° – +8.5°
Heavy Metals (as Pb)	Not more than 1 µg/g
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Not more than 4.0 µg/g
Cadmium (as Cd)	Not more than 1 µg/g
Lead	Not more than 1 µg/g
Mercury	Not more than 0.1 µg/g
Standard Plate Count	Not more than 1,000 cfu/g
Coliform	Negative / 0.1 g
E. coli	Negative / 0.1 g
Salmonella	Negative / 375 g
S. aureus	Negative / 0.02 g
Mold	Not more than 100 cfu/g
Yeast	Not more than 100 cfu/g

## Stability and Storage

In its original unopened packaging, may be stored at room temperature at least 36 months from date of production. Store in a cool, dry place away from heat and direct light.

# Suntheanine®

To discover how we can partner together, visit [suntheanine.com/beverage](http://suntheanine.com/beverage), email [sales@taiyont.com](mailto:sales@taiyont.com), or call 1-800-80-TAIYO.

\*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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