



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.

${oldsymbol{\mathcal{F}}}$ ocus on Innovation

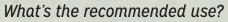
What is Suntheanine?

Suntheanine is the trade name for Taiyo's isomerically pure L-theanine produced via a patented enzymatic 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 Non GMO Project Verified.

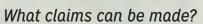


What is the regulatory status?

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.



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.



Based on clinical studies conducted specifically on Suntheanine brand, Suntheanine improves focus, attention and clarity, reduces the

CLINICALLY

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.

Suntheanine®

To discover how we can partner together, visit suntheanine.com/beverage, email sales@taiyont.com, or call 1-800-80-TAIYO.

Product Identification

Chemical name: Synonyms: Chemical Formula: CAS Registry No: HTS Number: L-glutamic acid- γ -monoethylamide L-theanine, N-ethyl-L-glutamine C₇H₁₄N₂O₃ 3081-61-6 2924.19.8000

Specifications

Description Purity Particle Size **Bulk Density** Loss on Drying **Residue on Ignition** pH Chloride (as CI) **Specific Rotation** Heavy Metals (as Pb) Arsenic (as As_2O_3) Cadmium (as Cd) Lead Mercury Standard Plate Count Coliform E. coli Salmonella S. aureus Mold Yeast

White crystalline powder Not less than 98.0% L-theanine Not less than 95.0% through 0.25 ~ 0.50 g/cm³ Not more than 1.00% Not more than 0.20% 5.0 - 6.0Not more than 0.021% +7.7° - +8.5° Not more than 1 μ g/g Not more than 4.0 μ g/g Not more than 1 μ g/g Not more than 1 μ g/g Not more than 0.1 μ g/g Not more than 1,000 cfu/g Negative / 0.1 g Negative / 0.1 g Negative / 375 g Negative / 0.02 g Not more than 100 cfu/g 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.

*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.

The information contained herein is, to the best of our knowledge, correct. It should not be construed as permission for violation of patent rights. The data outlined and the statements made are intended only as a source of information for your consideration and verification and not as a condition of sale. No warranties, expressed or implied are made. Regulations related to the use of this ingredient and claims contained herein vary from region to region and it is recommended that official regulatory implications pertinent to your region and application be confirmed prior to use. On the basis of this information, it is suggested that you evaluate the product on a laboratory scale prior to use in a finished product. Suntheanine⁺ is a registered trademark of Taiyo International, Inc. U.S. and International Patents Pending.

© 2018 Taiyo International, Inc., Taiyo Kagaku Co., Ltd.