

TECHNICAL DATA SHEET

Nature L-Theanine

40% HPLC

Chemical Properties

CAS No: 3081-61-6;

Chemical Formula: $C_7H_{14}N_2O_3$

Molecular Weight: 174.20

Description

The name "theanine" without a prefix generally implies the enantiomer L-theanine, which is the form found in tea leaves and as a dietary supplement ingredient. It is an amino acid analogue of the proteinogenic amino acids L-glutamate and L-glutamine and is found primarily in particular plant and fungal species.

Solubility

Easily soluble in water.

Specification

Item	Specification	Test Method
Appearance	Fine brown yellow powder	Visual
Assay	Min 40.0%	HPLC, In-house
Odor & Taste	Characteristic	Organoleptic
Caffeine	Min 5.0%	HPLC, In-house
Particle size	Min 90% pass 80 mesh	In-house
Moisture	Max 5.0%	USP<921>
Ash	Max 5.0%	In-house
Heavy metals(as Pb)	Max 10ppm	USP<231>
Arsenic (As)	Max 1ppm	AOAC 986.15
Lead (Pb)	Max 1ppm	AOAC 986.15
Total Plate Count	Max 1,000cfu/g	USP<61>
Yeast & Mold	Max 100 cfu/g	USP<61>
Coliforms	Max 30 MPN/100g	GB 4789.3-2016
<i>E. Coli</i>	Negative	USP<61>
<i>Salmonella</i>	Negative	USP<61>

Ingredients

Nature L-Theanine 40%.

Functions

1) It has the effect of anti-fatigue.

- 2) It has the effect of antihypertensive.
- 3) It has the effect of improving memory.

Applications

L-Theanine is used as pharmaceutical raw material or for food supplement.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

This product under acid condition is relatively stable, encounter alkali decomposition, no reaction with water, high temperature decomposition, should avoid to contact with strong oxidizing medium.

No combustion, explosion and poisoning and other data, show acidity of reaction solution, should avoid direct contact to the eyes, skin, no danger level data report.

Packaging, Storage & Shelf Life

Package 25kg/drum; or according to customers' requirements.

Storage Store in a well-closed container away from moisture and direct sunlight.

Shelf Life 2 years if sealed and stored properly.