

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	L-Theanine
<b>Date of Issue</b>	2024-05-27
<b>Shelf Life</b>	2 years

### Physical & Chemical Characteristics

<b>Analysis Item</b>	<b>Specification</b>
Appearance	White crystals or crystalline powder
Assay (on dried basis)	98.0%–102.0%
Loss on Drying	≤1.0%
Residue on Ignition	≤0.2%
Clarity of Solution	Clear and colorless
Specific Rotation $[\alpha]^{D_{20}}$	+7.7°–+8.5°
pH	4.5–6.0
Chloride	≤0.02%

### Heavy Metals

<b>Analysis Item</b>	<b>Specification</b>
Heavy Metals	≤10 ppm
Lead (Pb)	≤3 ppm
Arsenic (As)	≤1 ppm
Cadmium (Cd)	≤1 ppm
Mercury (Hg)	≤0.1 ppm

### Microbiological

<b>Analysis Item</b>	<b>Specification</b>
Total Plate Count	≤1000 cfu/g
Total Yeast & Mold	≤100 cfu/g
Escherichia Coli	Negative
Salmonella	Negative