

浙江天瑞化学有限公司

analytical certification of product

Product Name: L- Theanine

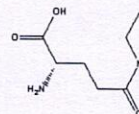
Molecular Formula: C₇H₁₄N₂O₃

Batch No: TR20250821

CAS#: 3081-61-6

Molecular Weight:174.2

Qty:1000KG



Manufacturing date: Aug. 22,2025

Expiring date:Aug. 21,2027

Item	Standard (JP2000)	Results
Appearance	White to off-white powder	White to off-white powder
Assay	98.0-102.0%	99.22% (HPLC)
Specific rotation(a) _{D20} (C=1 , H ₂ O)	+7.7 to +8.5 Degree	7.95Degree
Identification by IR	Authentic	Conforms
Melting point	202.0-215.0℃	204℃
Bulk Density	NLT0.2g/ml to 0.6g/ml	conforms
Particle Size	NLT 90.0% thru#60mesh	conforms
Solubility (1.0g/20ml H ₂ O)	Clear Colorless	Clear Colorless
Chloride(Cl)	≤ 0.02%	<0.02%
Loss on drying	≤0.5%	0.31%
Residue on ignition	≤ 0.2%	< 0.20%
PH	5.0-6.0	5.12
Heavy metals(as Pb)	≤10ppm	<10ppm
Arsenic(as As)	≤ 1ppm	<1ppm
Lead	≤1ppm	<1ppm
Mercury	≤0.1ppm	<0.1ppm
Cadmium	≤1ppm	<1ppm
Total Plate Count	<1000cfu/g	Conforms
Yeast and Mold	<100cfu/g	Conforms
E.Coli	Negative	Negative
Conclusion:The product confirms to the requirement		

Not For Medicinal Use

Analyst: Zheng Chenxia

Verifier:Ge Yiyang