

CERTIFICATE OF ANALYSIS

Product Name	L- theanine		
CAS#	3081-61-6		
Batch Number	20230315	Manufacture Date	20230315
Molecular Formula	C7H14N2O3	Molecular Weight	174.2
Report Date	20230315	Expiry Date	20250314

Item of Analysis	Specification	Results	Test Methods
Assay	98.0-102.0%	99.62%	HPLC
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	White powder	Conforms	Organoleptic
Physical Characteristics			
Specific rotation(a)D20 (C=1 ,H2O)	+7.7 to +8.5 Degree	+8.15Degree	CHP2010
Solubility (1.0g/20ml H2O)	Clear Colorless	Clear Colorless	Seeing
Chloride(C1)	≤ 0.02%	<0.02%	CHP2010
Loss on drying	≤ 0.5%	0.09%	CHP2010
Residue on ignition	≤ 0.2%	0.04%	CHP2010
PH	5.0-6.0	5.62	CHP2010
Heavy metals			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	Conform	ICP-MS
Arsenic (As)	2ppm NMT	Conform	ICP-MS
Cadmium (Cd)	2ppm NMT	Conform	ICP-MS
Mercury (Hg)	0.5ppm NMT	Conform	ICP-MS
Microbiological Tests			
Total Plate Count	1000cfu/g Max	Conform	USP<61>
Yeast & Mold	100cfu/g Max	Conform	USP<61>
E. Coli.	Negative	Conform	USP<61>
Salmonella	Negative	Conform	USP<61>
Staphylococcus	Negative	Conform	USP<61>

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

