

CERTIFICATE OF ANALYSIS

Product Name	L-Threonine		
Batch Number	20221128	Manufacture Date	20221128
Report Date	20221128	Expiry Date	20241127

Item of Analysis	Specification	Results
Assay	98.5%~101.5%	99.4%
Organoleptic		
Appearance	White crystals or crystalline powder	White crystalline powder
Odor	Characteristic	Conforms
Taste	Characteristic	Conforms
Physical Characteristics		
pH	5.0~6.5	5.58
Specific rotation	-26.7°~-29.1°	-27.2°
Loss on drying	≤0.20%	0.15%
Residue on ignition	≤0.40%	0.04%
Heavy metals		
Heavy metals(Pb)	≤15ppm	<15ppm
Chloride (Cl)	≤0.05%	<0.05%
Arsenic (As ₂ O ₃)	≤1PPM	<1ppm
Ammonium (NH ₄)	≤0.02%	<0.02%
Iron(Fe)	≤0.003%	<0.003%
Sulfate (SO ₄)	≤0.03%	<0.03%
Microbiological Tests		
Total aerobic plate count	≤1000cfu/g	Conform
Yeast & Mold	≤100cfu/g	Conform
E. Coli.	Negative	Conform
Salmonella	Negative	Conform
Staphylococcus	Negative	Conform
Conclusion	the material complies with enterprise internal.	

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.

