

CERTIFICATE OF ANALYSIS

Product Name	L-Theanine	Specification	Company Standard
CAS No.	3081-61-6	Manufacture Date	2024.9.20
Quantity	600KG	Analysis Date	2024.9.27
Batch No.	BF-240920	Expiry Date	2026.9.19

Items	Specifications	Results
Assay (HPLC)	98.0% - 102.0%	99.15%
Appearance	White crystalline powder	Complies
Specific Rotation(α) _D ²⁰ (C=1,H ₂ O)	+7.7 to +8.5 Degree	+8.30 Degree
Solubility (1.0g/20ml H ₂ O)	Clear Colorless	Clear Colorless
Chloride(C _l)	≤ 0.02%	< 0.02%
Loss on Drying	≤ 0.5%	0.29%
Residue on Ignition	≤ 0.2%	0.04%
pH	5.0 - 6.0	5.07
Melting Point	202°C - 215°C	203°C - 203.5°C
Heavy Metals (as Pb)	≤ 10 ppm	< 10 ppm
Arsenic (as As)	≤ 1.0 ppm	< 1 ppm
Microbiological Test		
Total Plate Count	≤1000 CFU/g	Complies
Yeast & Mold	≤100 CFU/g	Complies
E.Coli	Negative	Complies
Salmonella	Negative	Complies
Package	Packed in plastic bag inside and aluminum foil bag outside.	
Storage	Store in a cool and dry place, keep away from strong light and heat.	
Shelf Life	Two years when properly stored.	
Conclusion	Sample Qualified.	



Analyst: Jiayan Yang

Checked By: Fei Shen

Manager: Xiaoyu Wang