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CERTIFICATE OF ANALYSIS

Product Name	L-Theanine	**Specification**	Company Standard
CAS No.	3081-61-6	**Manufacture Date**	2026.10.15
Quantity	500KG	**Analysis Date**	2026.10.15
Batch No.	ES-261015LT	**Expiry Date**	2028.10.14

Items	**Specifications**	**Results**
Appearance	White or almost white crystalline powder	Complies
Specific Rotation	+7.7° ~ +8.5°	+8.1°
Assay (HPLC)	98.0% ~ 102.0%	99.5%
Loss on Drying	≤ 1.0%	0.17%
Residue on Ignition	≤ 0.20%	0.03%
pH	5.0 ~ 6.0	5.8
Solution Clarity	Clear and colorless	Complies
Chloride	≤ 0.02%	< 0.02%
Sulfate	≤ 0.02%	< 0.02%
Iron	≤ 10 ppm	< 10 ppm
Heavy Metals (Pb)	≤ 10 ppm	< 10 ppm
Arsenic (As)	≤ 1 ppm	< 1 ppm
Cadmium (Cd)	≤ 1 ppm	< 1 ppm
Mercury (Hg)	≤ 0.1 ppm	< 0.1 ppm
Total Plate Count	≤ 1000 CFU/g	< 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g	< 100 CFU/g
E.Coli	Negative	Negative
Salmonella	Negative	Negative
Package	25kg/drum (Packed in plastic bag inside and cardboard drum 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.	

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Analyst: Jiayan Yang Checked By: Fei Shen Manager: Xiaoyu Wang

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