

**JHD CORP**

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Office&Warehouse(USA): 35 E Park Dr, Westampton, NJ, 08060

Office(China): Room 1307, Shenglang International, Xi'an, Shaanxi

Manufacturer(China): Hongda Industrial District, Xianyang, Shaanxi

Office&Warehouse(Netherlands): Piet Stuurmanweg 7, 2742 JX Waddinxveen

Certificate of Analysis
L-Theanine 98.5%~101.5% HPLC

Batch No.	20251210	Manufacturing Date	December 10, 2025
Batch Quantity	1,000KG	Expiration Date	December 9, 2030
CAS No.	3081-61-6	Molecular Weight	174.2
Executive Standards	Enterprise Standard	Country of Origin	China
ITEMS	SPECIFICATION	RESULT	METHOD
Content	98.5%~101.5% (on the dried basis)	98.90%	HPLC USP<621>
Identification(IR)	Concordant with the reference spectrum	Conform	IR
Specific Rotation $[\alpha]_D^{20}$ (C=1, H ₂ O)	+7.7°~+8.5°	+8.2°	Optical Rotation USP<781>
PHYSICAL CHARACTERISTICS			
Appearance	White crystals or crystalline powder	Conform	Organoleptic
State of Solution	NLT 98.0%	99.00%	UV USP<857>
Loss on Drying	NMT 1.0%	0.09%	USP <731>
Residue on ignition	NMT 0.1%	0.04%	USP <281>
CHEMICAL CHARACTERISTICS			
pH	4.5~6.0	5.56	USP <791>
Chlorides (as Cl)	NMT 200ppm	<200ppm	USP <221>
Sulfates (as SO ₄)	NMT 200ppm	<200ppm	USP <221>
Iron (as Fe)	NMT 30ppm	<30ppm	USP <241>
Heavy Metals(as Pb)	NMT 10ppm	<10ppm	USP <231> Method II
Arsenic (As)	NMT 1.0ppm	<1.0ppm	ICP-MS USP <233>
MICROBIOLOGICAL CHARACTERISTICS			
Total Plate Count	NMT 5,000cfu/g	<1,000cfu/g	USP<2021>
Total Yeast & Mold	NMT 500cfu/g	<100cfu/g	USP<2021>
E. Coli	Not Detected in(g) 10	Not Detected	USP<2022>
Salmonella	Not Detected in(g) 25	Not Detected	USP<2022>
Staphylococcus aureus	Not Detected in(g) 25	Not Detected	USP<2022>
Packing and Storage	25kg/Drum. Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.		

Tested by: *Tracy Cui*

Date: December 19, 2025

Approved by: *Jack Jia*

Date: December 19, 2025

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