

## Certificate of Analysis

**Expiry Date:** Mar. 14, 2028  
**Manufacture Date:** Mar. 15, 2025

<b>Product Name</b>	L- Theanine	<b>Batch Number</b>	20250315
<b>Country of Origin</b>	China	<b>Quantity</b>	1450 kg

Analysis Items	Specifications	Results	Test Methods
Identification	<i>Identical to R.S samples</i>	Identical	HPLC

Physical and Chemical			
Loss on Drying	≤ 1.0%	0.37%	GB 5009.3
Residue on Ignition	≤ 0.2%	0.12%	GB 5009.4
pH	5.0-6.0	5.15	CP2020
Assay	98.0-102.0%	99.10%	HPLC
Specific rotation(a)D20 (C=1, H2O)	+7.7 to +8.5 Degree	8.01Degree	CP2020
Appearance	White or off-White powder	Conforms	Visual
Odor & Taste	Characteristic	Conforms	Organoleptic
Solubility (1.0g/20ml H2O)	Clear Colorless	Conforms	CP2020
Contaminants			
Arsenic (As)	≤ 2.0 mg/kg	Conforms	ICP-MS
Lead (Pb)	≤ 1.0 mg/kg	Conforms	ICP-MS
Mercury (Hg)	≤ 0.1 mg/kg	Conforms	ICP-MS
Cadmium(Cd)	≤ 1.0 mg/kg	Conforms	ICP-MS
Chloride	≤ 0.02%	Conforms	ICP-MS
Residual solvents	Meet Eur.Ph. <2.4.24>	Conforms	Eur.Ph. <2.4.24>
Pesticide Residue	Meet Eur.Ph. <2.8.13>	Conforms	Eur.Ph. <2.8.13>
Benzo(a)pyrene	≤ 10 ug/kg	Conforms	Eu. Reg 1881
Sum of B(a)P, B(a)A, B(b)F, & Chrysene	≤ 50 ug/kg	Conforms	Eu. Reg 2015

Microbiological			
Total plate count	≤ 1,000 cfu/g	Conforms	ISO 4833-1
Moulds & Yeasts	≤ 100 cfu/g	Conforms	ISO 21527-2
Escherichia coli	< 10 cfu/g	Conforms	ISO 16649-2
Salmonella	Not Detected/25g	Not Detected	ISO 6579-1
Bacillus cereus	< 10 cfu/g	< 10 cfu/g	ISO 7932:2004
Coagulase-positive staphylococci	< 10 cfu/g	< 10 cfu/g	ISO 6888-1

<b>Package &amp; Storage</b>	25kg/drum, Store in sealed containers at cool&dry places. Keep away from strong light, heat and moisture.
<b>Shelf Life</b>	3 years if sealed and stored under the recommended conditions
*Non-GMO, Free of BSE, Non irradiated, No ETO treated, Negative by PSL screen test.	

Conclusion: This batch of L- Theanine meets the above specification.

Analyzed by: Muhammad Sesay

Checked by: 叶平

Approved by: 祝威

