



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Certificate of Analysis (COA)

Date of Issue: February 26, 2026

Document No.: COA-THR-260226-01

Batch No.: THR-F2602-048

Manufacture Date: February 20, 2026

Expiry Date: February 20, 2028

Quantity: 25.0 kg

Product Identification	Details
Chemical Name	L-Threonine (2S,3R)-2-Amino-3-hydroxybutanoic acid
CAS No.	72-19-5
EC No.	200-774-1
Molecular Formula	C ₄ H ₉ NO ₃
Molecular Weight	119.12 g/mol
Grade	Feed Additive
Appearance	White to off-white crystalline powder

Test Item	Specification	Test Result	Method
Assay (on dry basis)	≥ 98.5%	99.4%	HPLC
Specific Rotation [α] _D ²⁰	-26.0° to -29.0° (5% in H ₂ O)	-27.5°	Polarimetry
Appearance	White crystalline powder	Conforms	Visual
Identity	Positive	Conforms	IR Spectroscopy
pH (5% w/v solution)	5.0 – 6.5	5.8	pH Meter
Loss on Drying	≤ 0.5%	0.21%	105°C, 3h
Residue on Ignition	≤ 0.3%	0.08%	550°C
Chloride (Cl ⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Sulfate (SO ₄ ²⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Ammonium (NH ₄ ⁺)	≤ 0.02%	< 0.01%	Colorimetry
Heavy Metals (as Pb)	≤ 10.0 mg/kg	< 4.0 mg/kg	AAS
Arsenic (As)	≤ 2.0 mg/kg	< 0.5 mg/kg	AFS
Other Amino Acids	≤ 1.0%	0.35%	HPLC
Microbial Limits	Total Aerobic Count ≤ 10 ⁴ CFU/g	< 500 CFU/g	ISO 4833-1
	Yeast & Mold ≤ 10 ² CFU/g	< 10 CFU/g	ISO 21527-2
	E. coli	Absent in 1g	ISO 16649-2
	Salmonella	Absent in 25g	ISO 6579-1

Conclusion: This product conforms to the specifications of Feed Grade L-Threonine.