



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Date of Issue: February 28, 2026

Document No.: COA-TRY-260228-01

Batch No.: TRY-F2602-052

Manufacture Date: February 22, 2026

Expiry Date: February 22, 2028

Quantity: 25.0 kg

Product Identification	Details
Chemical Name	L-Tryptophan (2S)-2-Amino-3-(1H-indol-3-yl)propanoic acid
CAS No.	73-22-3
EC No.	200-795-6
Molecular Formula	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight	204.23 g/mol
Grade	Feed Additive
Appearance	White to slightly yellowish crystalline powder

Test Item	Specification	Test Result	Method
Assay (on dry basis)	≥ 98.5%	99.1%	HPLC
Specific Rotation [α] _D ²⁰	-30.0° to -33.0° (1% in 1mol/L HCl)	-31.8°	Polarimetry
Appearance	White to slightly yellowish powder	Conforms	Visual
Identity	Positive	Conforms	IR Spectroscopy
pH (1% w/v solution)	5.5 – 7.0	6.2	pH Meter
Loss on Drying	≤ 0.5%	0.18%	105°C, 3h
Residue on Ignition	≤ 0.2%	0.06%	550°C
Chloride (Cl ⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Sulfate (SO ₄ ²⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Heavy Metals (as Pb)	≤ 10.0 mg/kg	< 3.0 mg/kg	AAS
Arsenic (As)	≤ 2.0 mg/kg	< 0.5 mg/kg	AFS
Other Amino Acids	≤ 1.0%	0.42%	HPLC
Microbial Limits	Total Aerobic Count ≤ 10 ⁴ CFU/g	< 400 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-Tryptophan.