



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: DL-Methionine

Product Information

Item	Details
Product Number	DLM-20260220
Batch Number	DLM-SH2026022001
Brand	SIGALD
CAS Number	59-51-8
MDL Number	MFC00002611
Formula	C ₅ H ₁₁ NO ₂ S
Formula Weight	149.21 g/mol
Quality Release Date	20 FEB 2026

Test Results

Test	Specification (Industrial/Food/Feed/Pharm Grade)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder/crystals	Crystalline powder	-	Visual Inspection
Assay (DL-Methionine)	≥98.0% (Food/Feed/Pharm ≥99.0%)	99.6%	%	High Performance Liquid Chromatography (HPLC)
Melting Point	281-285°C (decomposition)	283.2°C	°C	Melting Point Apparatus
pH Value (1% aqueous, 25°C)	5.5-6.5	6.0	-	Digital pH Meter
Loss on Drying	≤0.5%	0.10%	%	105°C Constant Weight Method
Residue on Ignition	≤0.1%	0.03%	%	Ignition at 600±50°C
Heavy Metals (Pb)	≤5 ppm (Food/Feed/Pharm ≤1 ppm)	0.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤1 ppm (Food/Feed/Pharm ≤0.5 ppm)	0.04 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Chloride (Cl ⁻)	≤0.01%	0.002%	%	Volumetric Method
Sulfate (SO ₄ ²⁻)	≤0.01%	0.003%	%	Turbidimetric Method
Ammonium (NH ₄ ⁺)	≤0.02%	0.006%	%	Nessler's Reagent Colorimetry
Water Solubility	Soluble in water, dilute acid/alkali	Conforms to standard	-	Visual Inspection
Total Bacterial Count	≤100 CFU/g (Food/Pharm ≤10 CFU/g)	12 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Yeast & Mold	≤50 CFU/g (Food/Pharm ≤5 CFU/g)	3 CFU/g	CFU/g	Plate Count Method
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of DL-Methionine has been tested in accordance with national and industrial standards for amino acid raw materials, food additives, feed additives and pharmaceutical intermediates, and meets all specified requirements for industrial, food, feed and pharmaceutical grade use. It is qualified for release and application.

Issue Date:20 FEB 2026