



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

**Product Name: L-Methionine (Feed Grade)**

### Product Information

Item	Details
Product Number	LM-FEED-20260228
Batch Number	LM-F2026022801
Brand	SIGALD
CAS Number	63-68-3
MDL Number	MFCD00002612
Formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S
Formula Weight	149.21 g/mol
Quality Release Date	28 FEB 2026

### Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance	White crystalline powder	White	-	Visual Inspection
Assay (L-Methionine)	≥99.0%	99.7%	%	HPLC (Feed Additive Method)
Specific Rotation [α] <sub>D</sub> <sup>25</sup>	+21.0° ~ +25.0°	+23.8°	°	Polarimetry
Melting Point	280-284°C (decomposition)	282.5°C	°C	Melting Point Apparatus
pH Value (1% Aqueous, 25°C)	5.4-6.4	5.9	-	Digital pH Meter
Loss on Drying	≤0.3%	0.08%	%	105°C, 2 Hours
Residue on Ignition	≤0.1%	0.02%	%	600±50°C
Heavy Metals (as Pb)	≤1 ppm	0.2 ppm	ppm	AAS
Arsenic (As)	≤0.5 ppm	0.03 ppm	ppm	AFS
Chloride (Cl <sup>-</sup> )	≤0.005%	0.002%	%	Volumetric Method
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	≤0.005%	0.002%	%	Turbidimetric Method
Related Substances	≤0.5%	0.15%	%	HPLC
Total Bacterial Count	≤10 CFU/g	3 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	GB 13078.1

### Certification

This batch of **Feed Grade L-Methionine** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and **NY/T 391-2021 (Feed Additive Standards)**. It meets all specified requirements for feed additive use and is qualified for release.

**Date:** 28 FEB 2026