

Certificate of Analysis (COA)

- L-Methionine

Product Name: L-Methionine Product Information

Product Number	L-MET-20260228
Batch Number	LMET-SH2026022801
Brand	SIGALD
CAS Number	63-68-3
EINECS Number	200-562-9
Formula	C ₅ H ₁₁ NO ₂ S
Formula Weight	149.21 g/mol
Quality Release Date	28 FEB 2026

Test Results

Test	Specification (Food/Feed/Pharm Grade)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, free-flowing	Crystalline powder	-	Visual Inspection
Odor	Characteristic mild sulfurous odor	Characteristic mild odor	-	Sensory Evaluation
Assay (L-Methionine)	≥ 99.0%	99.6%	%	HPLC
Specific Rotation (20°C, 5% in H ₂ O)	+21.0° to +25.0°	+23.2°	°	Polarimeter
pH Value (25°C, 5% Aqueous Solution)	5.4 - 6.4	5.9	-	Digital pH Meter
Loss on Drying (105°C, 3h)	≤ 0.5%	0.11%	%	Gravimetric Method
Residue on Ignition (Ash)	≤ 0.1%	0.02%	%	Gravimetric Method (550°C)
Heavy Metals (Pb)	≤ 0.5 ppm	0.05 ppm	ppm	ICP-MS
Heavy Metals (As)	≤ 0.2 ppm	0.01 ppm	ppm	ICP-MS
Chloride (Cl ⁻)	≤ 0.02%	0.004%	%	Titrimetric Method
Sulfate (SO ₄ ²⁻)	≤ 0.02%	0.003%	%	Turbidimetric Method
Iron (Fe)	≤ 10 ppm	1.5 ppm	ppm	Colorimetric Method
Total Plate Count	≤ 100 CFU/g	< 10 CFU/g	CFU/g	GB 4789.2
E. coli	Negative in 25g	Negative	-	GB 4789.3
Salmonella	Negative in 25g	Negative	-	GB 4789.4

Certification This batch of product has been tested in accordance with the national and industrial standards for L-Methionine and meets all specified requirements. It is qualified for use as an essential amino acid nutritional fortifier in food, animal feed, pharmaceutical formulations and dietary supplements.

Issue Date: 28 FEB 2026