



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Issue Date: 25 FEB 2026 Quality Release Date: 25 FEB 2026

Product Information

Product Name	L-Cysteine Monohydrochloride (Food Grade)
Product Number	LCM-20260225
Batch Number	LCM-SH2026022501
Brand	SIGALD
CAS Number	7048-4-6
MDL Number	MFCD00064543
Formula	C ₃ H ₈ ClNO ₂ S
Formula Weight	157.62 g/mol

Test Results

Test	Specification (Food Industry Standard)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, free-flowing	Free-flowing crystalline powder	-	Visual Inspection
Assay (L-Cysteine Monohydrochloride)	≥ 98.5%	99.3%	%	High Performance Liquid Chromatography (HPLC)
Specific Rotation [α] ₂₀ ^D	+5.0° ~ +8.0°	+6.8°	-	Polarimetry
pH Value (25°C, 5% aqueous solution)	1.5-2.5	2.0	-	Digital pH Meter
Loss on Drying (105°C, 2h)	≤ 0.5%	0.2%	%	Gravimetry
Ash Content	≤ 0.1%	0.03%	%	550°C Ignition Gravimetry
Heavy Metals (Pb)	≤ 1 ppm	0.2 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.5 ppm	< 0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.1 ppm	< 0.05 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Mercury (Hg)	≤ 0.01 ppm	< 0.005 ppm	ppm	Cold Vapor Atomic Absorption Spectrometry
Total Bacterial Count	≤ 100 CFU/g	15 CFU/g	CFU/g	Plate Count Method
Yeast & Mold	≤ 10 CFU/g	< 5 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative	Negative	-	ISO 6579-1
Solubility	Freely soluble in water	Conforms	-	Visual & Gravimetric Method
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of product has been tested in accordance with national and international food additive industrial standards for L-Cysteine Monohydrochloride and meets all specified requirements. It is qualified for use as a food additive.