



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Ferrous Sulfate Monohydrate (Feed Grade)

Product Information

Item	Details
Product Number	FSM-FEED-20260224
Batch Number	FSM-F2026022401
Brand	SIGALD
CAS Number	13463-43-9
MDL Number	MFCD00150017
Formula	FeSO ₄ ·H ₂ O
Formula Weight	169.92 g/mol
Quality Release Date	24 FEB 2026

Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance	Pale green crystalline powder, odorless	Pale green crystalline powder	-	Visual Inspection
Assay (FeSO ₄ ·H ₂ O)	≥98.0%	98.7%	%	Complexometric Titration
Assay (Fe ²⁺)	≥30.0%	30.5%	%	Redox Titration (K ₂ Cr ₂ O ₇)
Insoluble Matter in Water	≤0.05%	0.02%	%	Gravimetric Method
pH Value (5% Aqueous, 25°C)	3.0 - 4.0	3.5	-	Digital pH Meter
Loss on Drying	5.0% - 8.0%	6.3%	%	105°C, 2 Hours
Heavy Metals (as Pb)	≤5 ppm	1.0 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤2 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤1 ppm	0.08 ppm	ppm	AAS
Mercury (Hg)	≤0.1 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
Chloride (Cl ⁻)	≤0.01%	0.004%	%	Volumetric Method
Sulfate (SO ₄ ²⁻)	53.0%-56.0%	54.8%	%	Gravimetric Method
Total Bacterial Count	≤100 CFU/g	16 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 Ferrous Sulfate Monohydrate** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and **GB/T 21695-2008 (Feed Additive Ferrous Sulfate)**. It meets all specified requirements for feed additive use and is qualified for release.

Date: 24 FEB 2026