



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name: Zinc Sulfate Heptahydrate (Feed Grade)

Product Information

Item	Details
Product Number	ZSH-FEED-20260226
Batch Number	ZSH-F2026022601
Brand	SIGALD
CAS Number	14168-73-1
MDL Number	MFCD00149881
Formula	ZnSO ₄ ·7H ₂ O
Formula Weight	287.56 g/mol
Quality Release Date	26 FEB 2026

Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance	Colorless transparent crystals or white crystalline powder	Colorless transparent crystals	-	Visual Inspection
Assay (ZnSO ₄ ·7H ₂ O)	≥99.0%	99.5%	%	Complexometric Titration
Assay (Zn)	≥22.5%	22.8%	%	Complexometric Titration
pH Value (5% Aqueous, 25°C)	4.0 - 6.0	5.1	-	Digital pH Meter
Loss on Drying	42.0% - 45.0%	43.6%	%	105°C, 4 Hours
Insoluble Matter in Water	≤0.05%	0.01%	%	Gravimetric Method
Heavy Metals (as Pb)	≤5 ppm	1.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤2 ppm	0.3 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤1 ppm	0.1 ppm	ppm	AAS
Mercury (Hg)	≤0.1 ppm	<0.01 ppm	ppm	Cold Vapor Atomic Absorption
Iron (Fe)	≤50 ppm	12 ppm	ppm	UV-Vis Spectrophotometry
Total Bacterial Count	≤100 CFU/g	15 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 Zinc Sulfate Heptahydrate** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and **GB/T 21696-2008 (Feed Additive Zinc Sulfate)**. It meets all specified requirements for feed additive use and is qualified for release.

Date: 26 FEB 2026