



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Issue Date: 29 FEB 2026 Quality Release Date: 29 FEB 2026

Product Information

Product Name Manganese Sulphate Monohydrate (Feed Grade)
Product Number MSM-F20260229
Batch Number MSM-SH2026022901
Brand SIGALD
CAS Number 10034-96-5
EINECS Number 231-960-0
Formula $MnSO_4 \cdot H_2O$
Formula Weight 169.02 g/mol

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Pale pink to light red	Light pink	-	Visual Inspection
Appearance (Form)	Crystalline powder	Crystalline powder	-	Visual Inspection
Assay (as $MnSO_4 \cdot H_2O$)	$\geq 98.0\%$	98.9%	%	EDTA Complexometric Titration
Manganese (Mn) Content	$\geq 31.8\%$	32.5%	%	Calculated from Assay
Water Insoluble Matter	$\leq 0.05\%$	0.01%	%	Gravimetric Method
Heavy Metals (Pb)	≤ 10 ppm	2.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 2 ppm	< 0.5 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 2 ppm	< 0.5 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Zinc (Zn)	≤ 50 ppm	10.3 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Iron (Fe)	≤ 50 ppm	8.7 ppm	ppm	Atomic Absorption Spectrometry (AAS)
pH Value (5% in H_2O , 25°C)	3.5 - 6.0	4.8	-	Digital pH Meter
Loss on Drying	8.0% - 10.0%	9.2%	%	105°C, 2h Gravimetry
Total Bacterial Count	$\leq 10^4$ CFU/g	260 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative	Negative	-	Microbiological Detection

Certification

This batch of Manganese Sulphate Monohydrate has been tested in accordance with the specified industrial standards for feed grade mineral additives and meets all quality requirements. It is qualified for release and use in animal nutrition.