

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Manganese Sulfate Monohydrate
Batch Number	2024012541
Grade	Food Grade
Packing	Paper Bag + PE Bag
Manufacturing Date	25/01/2024
Expiration Date	24/01/2027

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Identification (Manganese & Sulfate)	Positive	Positive
Assay (MnSO ₄ ·H ₂ O)	98.0% – 102.0%	99.70%
Loss on Heating	10.0% – 13.0%	10.8%
Substances not precipitated by Ammonium Sulfide	Max. 0.5%	<0.5%
Description	Pale-pink granular powder	Positive

Heavy Metals

Analysis Item	Specification	Result
Lead (Pb)	Max. 3 mg/kg	0.57 mg/kg
Arsenic (As)	Max. 1 mg/kg	<0.040 mg/kg (Non-detected)
Mercury (Hg)	Max. 0.1 mg/kg	<0.003 mg/kg (Non-detected)
Cadmium (Cd)	Max. 1 mg/kg	0.12 mg/kg
Selenium	Max. 30 mg/kg	0.25 mg/kg

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	Max. 1000 cfu/g	<10 cfu/g

Yeasts & Moulds	Max. 25 cfu/g	<10 cfu/g
Coliforms	Max. 40 cfu/g	<10 cfu/g
Salmonella / 10g	Absent	Absent
Enterobacteriaceae / g	Absent	Absent
E. coli / g	Absent	Absent
Staphylococcus aureus / g	Absent	Absent

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