

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-12-08 17:35:11
Date of Next Testing:	2028-12-07 17:35:11
Product Name:	Manganese(II) chloride tetrahydrate
CAS Number:	13446-34-9
Specifications & Purity:	Suitable for Analysis, ACS, Premium pure
Lot #:	L2505380
SKU #	M431934
Version	1
Analysis #:	607138
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Assay(Complexometric EDTA)	99-101 (%)	100.25 %
Insoluble matter	0-0.005 (%)	0.00 %
PH(5% in water,25°C)	3.5-6	5.20
Sulfate(SO4)	0-0.002 (%)	0.00000 %
Calcium(Ca)	0-0.001 (%)	0.00 %
Copper(Cu)	0-0.0005 (%)	0.00 %
Iron(Fe)	0-0.0005 (%)	0.00 %
Magnesium(Mg)	0-0.005 (%)	0.00 %
Zinc(Zn)	0-0.001 (%)	0.00 %
Heavy metal (as Pb)	0-0.0005 (%)	0.00 %
Potassium(K)	0-0.001 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Substances not precipitated by ammonium sulfide (SO42-)	0-0.2 (%)	0.14 %
Substances reducing potassium permanganate (as O)	≤0.0005 (%)	0.00040 %
Lead(Pb)	0-0.0005 (%)	0.00 %
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager