

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-07-22 12:11:07
Date of Next Testing:	2029-07-21 12:11:07
Product Name:	Manganese(II) Chloride Tetrahydrate
CAS Number:	13446-34-9
Specifications & Purity:	AR, ≥99%
Lot #:	G2518404
SKU #	M112542
Version	0
Analysis #:	546833
Storage Temperature:	Argon charged, Desiccated

Parameter	Limit Values	Result
Sodium(Na)	0-0.05 (%)	0.00 %
PH (5%, water) 25 ° C	3.5-6	5.06
Iron(Fe)	0-5 (ppm)	0.00 ppm
Insoluble matter(C = 20g in 150ml H2O)	0-0.005 (%)	0.00 %
Zinc(Zn)	0-0.02 (%)	0.00 %
Water by Karl Fischer	33-39 (%)	34.67 %
Heavy metals(as Pb)	0-50 (ppm)	37.73 ppm
Assay(Complexometric EDTA)	98.5-101.5 (%)	101.15 %
Potassium(K)	0-0.01 (%)	0.00 %
Sulfate(SO42-)	0-0.005 (%)	0.00 %
Magnesium(Mg)	0-0.005 (%)	0.00 %
Appearance (M112542)	Faint Red to Dark Red and Pink Powder or Crystals	Faint Red to Dark Red and Pink Powder or Crystals
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager