

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-31 15:03:50

Date of Next Testing: 2028-07-30 15:03:50

Product Name: **Manganese(II) chloride tetrahydrate**

CAS Number: 13446-34-9

Specifications & Purity: PharmPure™, USP

Lot #: G2523453

SKU #: **M431933**

Version: **1**

Analysis #: **527733**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Insoluble matter	0-0.005 (%)	0.00000 %
Sulfate(SO4)	0-0.005 (%)	0.00500 %
Substances not ppt. by (NH4)2S(as sulfate)	0-0.2 (%)	0.00000 %
Iron(Fe)	0-5 (ppm)	0.00000 ppm
pH	3.5-6.0	5.06000
Assay(dry basis)	98-101.0 (%)	100.52000 %
Loss on drying	36.0-38.5 (%)	36.29780 %
Appearance(M431933)	Light red to Dark Red and Pink Powder or Crystal	Light red to Dark Red and Pink Powder or Crystal
Zinc	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager