

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-21 11:45:40
 Date of Next Testing: 2027-11-21 11:45:40
 Product Name: **Manganese(II) chloride tetrahydrate**
 CAS Number: 13446-34-9
 Specifications & Purity: PharmPure™, USP
 Lot #: K2415029
 SKU #: **M431933**
 Version: **1**
 Analysis #: **275689**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
pH	3.5-6.0	5.19100
Insoluble matter	0-0.005 (%)	0.00000 %
Substances not ppt. by (NH ₄) ₂ S(as sulfate)	0-0.2 (%)	0.00000 %
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Loss on drying	36.0-38.5 (%)	37.18000 %
Assay(dry basis)	98-101.0 (%)	98.22000 %
Sulfate(SO ₄)	0-0.005 (%)	0.00500 %
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