

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-14 15:56:53
 Date of Next Testing: 2029-07-13 15:56:53
 Product Name: **Manganese nitrate solution**
 CAS Number: 10377-66-9
 Specifications & Purity: Premium-Grade Reagents, 50 wt. % in H₂O
 Lot #: G2508545
 SKU #: **M112457**
 Version: **1**
 Analysis #: **528748**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Alkali and alkali earth metals	0-0.1 (%)	0.01160 %
Zinc(Zn)	0-0.02 (%)	0.00020 %
Chloride (Cl ⁻)	0-0.001 (%)	0.00000 %
Insoluble matter in H ₂ O	0-0.005 (%)	0.00000 %
Sulfate(SO ₄ ²⁻)	0-0.01 (%)	0.01000 %
Assay[Mn(NO ₃) ₂]	49-51 (%)	51.00000 %
Heavy metal (as Pb)	0-0.001 (%)	0.00100 %
Iron(Fe)	0-0.0005 (%)	0.00000 %
Appearance (M112457)	colorless to clear , pink to red liquid	colorless to clear , pink to red liquid
Solvent(H ₂ O)	Conform	Conform



John Su
QA & QC Manager