

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-31 16:19:39
Date of Next Testing: 2027-05-30 16:19:39
Product Name: **Manganese nitrate solution**
CAS Number: 10377-66-9
Specifications & Purity: Analytical Reagent, 50 wt. % in H₂O
Lot #: E2324327
SKU #: **M112457**
Analysis: **217057**

Parameter	Limit Values	Result
Alkali and alkali earth metals	0-0.1 (%)	0.00 %
Zinc(Zn)	0-0.02 (%)	0.00 %
Sulfate(SO ₄ ²⁻)	0-0.01 (%)	0.01 %
Iron(Fe)	0-0.0005 (%)	0.00 %
Insoluble matter in H ₂ O	0-0.005 (%)	0.00 %
Assay[Mn(NO ₃) ₂]	49-51 (%)	50.98 %
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
Chloride (Cl ⁻)	0-0.001 (%)	0.00 %
Appearance (M112457)	colorless to clear , pink to red liquid	colorless to clear , pink to red liquid



John Su
QA & QC Manager