

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-17 13:33:50
Date of Next Testing: 2027-05-16 13:33:50
Product Name: **Manganese carbonate**
CAS Number: 598-62-9
Specifications & Purity: Analytical Reagent
Lot #: E2311225
SKU #: **M111694**
Analysis: **217946**

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	0-0.1 (%)	0.04 %
Iron(Fe)	0-0.003 (ppm)	0.00 ppm
Insoluble matter in HNO ₃	0-0.1 (%)	0.02 %
Alkali and alkali earth metals	0-0.1 (%)	0.06 %
Sulfate(SO ₄ ²⁻)	0-0.1 (%)	0.01 %
Zinc(Zn)	0-0.02 (%)	0.01 %
Chloride (Cl ⁻)	0-0.05 (%)	0.03 %
Heavy metal (as Pb)	0-0.002 (ppm)	0.00 ppm
Mn(Complexometric EDTA)	44-48 (%)	46.20 %
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager