

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-07 14:39:28
 Date of Next Testing: 2027-12-06 14:39:28
 Product Name: **Manganese sulfate monohydrate**
 CAS Number: 10034-96-5
 Specifications & Purity: AR, ≥99%
 Lot #: K2329070
 SKU #: **M111707**
 Version: **0**
 Analysis #: **302309**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Magnesium(Mg)	0-200 (ppm)	88.00000 ppm
Iron(Fe)	0-20 (ppm)	15.00000 ppm
Calcium(Ca)	0-0.02 (%)	0.01000 %
loss on ignition(700°C)	10-12 (%)	11.20000 %
Chloride (Cl-)	0-100 (ppm)	0.00000 ppm
Purity Titration by EDTA	99-100 (%)	99.99120 %
Zinc(Zn)	0-50 (ppm)	0.00000 ppm
Appearance (M111707)	White to Pale Pink Powder	White to Pale Pink Powder
Potassium permanganate reducing substances	Pass	Pass
Solubility , 1g in 13ml of water	Clear light pink solution	Clear light pink solution
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager