

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-30 15:07:30
 Date of Next Testing: 2027-01-29 15:07:30
 Product Name: **Manganese sulfate monohydrate**
 CAS Number: 10034-96-5
 Specifications & Purity: AR, ≥99%
 Lot #: A2314214
 SKU #: **M111707**
 Version: **0**
 Analysis #: **181160**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Magnesium(Mg)	0-200 (ppm)	150.00000 ppm
Iron(Fe)	0-20 (ppm)	10.50000 ppm
Calcium(Ca)	0-0.02 (%)	0.01000 %
loss on ignition(700°C)	10-12 (%)	11.00000 %
Chloride (Cl-)	0-100 (ppm)	50.10000 ppm
Purity Titration by EDTA	99-100 (%)	99.99010 %
Zinc(Zn)	0-50 (ppm)	23.70000 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