

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-11 15:16:56
 Date of Next Testing: 2026-01-10 15:16:56
 Product Name: **Manganese sulfate monohydrate**
 CAS Number: 10034-96-5
 Specifications & Purity: AR, ≥99%
 Lot #: A2207915
 SKU #: **M111707**
 Version: **0**
 Analysis #: **066198**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Magnesium(Mg)	0-200 (ppm)	185.00000 ppm
Iron(Fe)	0-20 (ppm)	18.60400 ppm
Calcium(Ca)	0-0.02 (%)	0.01880 %
loss on ignition(700°C)	10-12 (%)	11.35000 %
Chloride (Cl-)	0-100 (ppm)	99.25600 ppm
Purity Titration by EDTA	99-100 (%)	99.99010 %
Zinc(Zn)	0-50 (ppm)	48.88000 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