

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-12 09:47:47  
Date of Next Testing: 2026-11-11 09:47:47  
Product Name: **Magnesium sulfate**  
CAS Number: 10034-99-8  
Specifications & Purity: reagent grade,99.0%  
Lot #: K2211675  
SKU #: **M110770**  
Analysis: **154374**

| Parameter               | Limit Values                                 | Result                                       |
|-------------------------|--|--|
| Chloride (Cl-)          | 0-0.0005 (%)                                 | 0.00 %                                       |
| Zinc(Zn)                | 0-0.001 (%)                                  | 0.00 %                                       |
| Loss on drying          | 48-52 (%)                                    | 50.02 %                                      |
| Calcium(Ca)             | 0-0.02 (µg/mg)                               | 0.01 µg/mg                                   |
| Heavy metals            | 0-0.0005 (%)                                 | 0.00 %                                       |
| Insoluble matter in H2O | 0-0.005 (%)                                  | 0.00 %                                       |
| (As)Arsenic             | 0-0.0001 (%)                                 | 0.00 %                                       |
| Iron(Fe)                | 0-0.0005 (%)                                 | 0.00 %                                       |
| Sodium(Na)              | 0-0.005 (%)                                  | 0.00 %                                       |
| Assay                   | 99-100 (%)                                   | 99.32 %                                      |
| Appearance (M110770)    | White to Off-White Powder or Solid or Chunks | White to Off-White Powder or Solid or Chunks |
| X-Ray Diffraction       | Conforms to Structure                        | Conforms to Structure                        |



John Su  
QA & QC Manager