

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-08-14 15:52:26  
 Date of Next Testing: 2029-08-13 15:52:26  
 Product Name: **Magnesium hydroxide**  
 CAS Number: 1309-42-8  
 Specifications & Purity: Ultra pure, ≥99%(KT)  
 Lot #: J2126600  
 SKU #: **M104280**  
 Version: **2**  
 Analysis #: **553947**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                     | Limit Values              | Result                    |
|-----------------------------------------------|---------------------------|---------------------------|
| (Pb)Lead                                      | 0-5 (ppm)                 | 0.00000 ppm               |
| UV absorption λ: 280 nm A (0.1 M i n 5 M HCl) | 0-0.025                   | 0.00000                   |
| UV absorption λ: 260 nm A (0.1 M i n 5 M HCl) | 0-0.03                    | 0.00000                   |
| Copper(Cu)                                    | 0-5 (ppm)                 | 0.00000 ppm               |
| Chromium(Cr)                                  | 0-5 (ppm)                 | 1.98000 ppm               |
| Chloride (Cl-)                                | 0-500 (ppm)               | 0.00000 ppm               |
| Cobalt(Co)                                    | 0-5 (ppm)                 | 0.00000 ppm               |
| Nickel(Ni)                                    | 0-100 (ppm)               | 0.00000 ppm               |
| (As)Arsenic                                   | 0-0.1 (ppm)               | 0.00000 ppm               |
| Zinc(Zn)                                      | 0-5 (ppm)                 | 0.00000 ppm               |
| Potassium(K)                                  | 0-50 (ppm)                | 23.21800 ppm              |
| Molybdenum(Mo)                                | 0-5 (ppm)                 | 0.00000 ppm               |
| Sulfate(SO42-)                                | 0-1000 (ppm)              | 11.99800 ppm              |
| Manganese(Mn)                                 | 0-10 (ppm)                | 2.46800 ppm               |
| Calcium(Ca)                                   | 0-5000 (ppm)              | 0.00000 ppm               |
| Barium(Ba)                                    | 0-10 (ppm)                | 0.00000 ppm               |
| Lithium(Li)                                   | 0-5 (ppm)                 | 0.00000 ppm               |
| Strontium(Sr)                                 | 0-10 (ppm)                | 0.00000 ppm               |
| Bismuth(Bi)                                   | 0-50 (ppm)                | 0.00000 ppm               |
| Cadmium(Cd)                                   | 0-5 (ppm)                 | 0.00000 ppm               |
| Sodium(Na)                                    | 0-100 (ppm)               | 90.75800 ppm              |
| Iron(Fe)                                      | 0-100 (ppm)               | 4.92800 ppm               |
| Assay(Titration by NaOH)                      | 99-102.5 (%)              | 99.01000 %                |
| Appearance (M104280)                          | White to Off-White Powder | White to Off-White Powder |
| Insoluble matter                              | pass                      | Pass                      |

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**Parameter**

Solubility in 5M HCl, 0.1 M at 20 °C

X-Ray Diffraction

$\lambda$ , 0.1 M in 5 M HCl

**Limit Values**

Colorless, Clear

Conforms to Structure

Pass

**Result**

Colorless, Clear

Conforms to Structure

Pass

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager