

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-15 09:38:40

Date of Next Testing: 2030-05-14 09:38:40

Product Name: **Magnesium hydroxide**

CAS Number: 1309-42-8

Specifications & Purity: Ultra pure, ≥99%(KT)

Lot #: E2612360

SKU #: **M104280**

Version: **2**

Analysis #: **699690**

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 | 0.01200 |
| UV absorption λ: 260 nm A (0.1 M i n 5 M HCl) | 0-0.03 | 0.01500 |
| Chromium(Cr) | 0-5 (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 |
| Molybdenum(Mo) | 0-5 (ppm) | 2.00000 ppm |
| Sulfate(SO42-) | 0-1000 (ppm) | 76.00000 ppm |
| Manganese(Mn) | 0-10 (ppm) | 0.00000 ppm |
| Calcium(Ca) | 0-5000 (ppm) | 15.00000 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 |
| Iron(Fe) | 0-100 (ppm) | 4.00000 ppm |
| Copper(Cu) | 0-5 (ppm) | 0.00000 ppm |
| Chloride (Cl-) | 0-500 (ppm) | 498.00000 ppm |
| Potassium(K) | 0-50 (ppm) | 21.00000 ppm |
| Sodium(Na) | 0-100 (ppm) | 55.00000 ppm |
| Assay(Titration by NaOH) | 99-102.5 (%) | 99.02000 % |
| 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

λ , 0.1 M in 5 M HCl

Limit Values

Colorless, Clear

Conforms to Structure

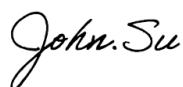
Pass

Result

Colorless, Clear

Conforms to Structure

Pass

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

John Su
QA & QC Manager