

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-11-08 08:44:29

Date of Next Testing: 2029-11-07 08:44:29

Product Name: **Magnesium hydroxide**

CAS Number: 1309-42-8

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

Lot #: K2503072

SKU #: **M104280**

Version: **2**

Analysis #: **455851**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
(Pb)Lead	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Chloride (Cl-)	0-500 (ppm)	424.25000 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)	45.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-1000 (ppm)	0.00000 ppm
Manganese(Mn)	0-10 (ppm)	0.00000 ppm
Calcium(Ca)	0-5000 (ppm)	87.00000 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)	74.00000 ppm
Iron(Fe)	0-100 (ppm)	5.00000 ppm
Assay(Titration by NaOH)	99-102.5 (%)	99.07000 %
UV absorption λ: 280 nm A (0.1 M i n 5 M HCl)	0-0.025	0.00800
UV absorption λ: 260 nm A (0.1 M i n 5 M HCl)	0-0.03	0.01000
Appearance (M104280)	White to Off-White Powder	White to Off-White Powder
Solubility in 5M HCl, 0.1 M at 20 °C	Colorless, Clear	Colorless, Clear



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Parameter

X-Ray Diffraction

Insoluble matter

λ , 0.1 M in 5 M HCl

Limit Values

Conforms to Structure

pass

Pass

Result

Conforms to Structure

Pass

Pass

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

John Su
QA & QC Manager