

Certificate of Analysis

Date of Testing: 2024-12-06 10:31:34

Date of Next Testing: 2028-12-05 10:31:34

Product Name: **Magnesium hydroxide**

CAS Number: 1309-42-8

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

Lot #: C2113065

SKU #: **M104280**

Version: **1**

Analysis #: **444267**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
(Pb)Lead	0-5 (ppm)	2.20 ppm
UV absorption λ: 280 nm A (0.1 M i n 5 M HCl)	0-0.025	0.01
UV absorption λ: 260 nm A (0.1 M i n 5 M HCl)	0-0.03	0.02
Copper(Cu)	0-5 (ppm)	2.00 ppm
Chromium(Cr)	0-5 (ppm)	2.40 ppm
Chloride (Cl-)	0-500 (ppm)	319.00 ppm
Cobalt(Co)	0-5 (ppm)	2.80 ppm
Nickel(Ni)	0-100 (ppm)	53.10 ppm
(As)Arsenic	0-0.1 (ppm)	0.08 ppm
Zinc(Zn)	0-5 (ppm)	2.60 ppm
Potassium(K)	0-50 (ppm)	42.23 ppm
Molybdenum(Mo)	0-5 (ppm)	3.20 ppm
Sulfate(SO42-)	0-1000 (ppm)	626.00 ppm
Manganese(Mn)	0-10 (ppm)	3.80 ppm
Calcium(Ca)	0-5000 (ppm)	3476.00 ppm
Barium(Ba)	0-10 (ppm)	5.80 ppm
Lithium(Li)	0-5 (ppm)	3.40 ppm
Strontium(Sr)	0-10 (ppm)	7.80 ppm
Bismuth(Bi)	0-50 (ppm)	6.40 ppm
Cadmium(Cd)	0-5 (ppm)	3.20 ppm
Sodium(Na)	0-100 (ppm)	60.10 ppm
Iron(Fe)	0-100 (ppm)	60.90 ppm
Assay(Titration by NaOH)	99-102.5 (%)	99.01 %
Appearance (M104280)	White to Off-White Powder	White to Off-White Powder
Insoluble matter	pass	Pass

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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