

Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2024-07-01 16:22:36
Date of Next Testing: 2028-06-30 16:22:36
Product Name: **Magnesium hydroxide**
CAS Number: 1309-42-8
Specifications & Purity: Ultra pure, ≥99.0%(KT)
Lot #: F2421531
SKU #: **M104280**
Version: **1**
Analysis #: **363803**
Storage 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	0.00500
UV absorption λ: 260 nm A (0.1 M i n 5 M HCl)	0-0.03	0.00600
Copper(Cu)	0-5 (ppm)	0.00000 ppm
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)	0.00000 ppm
Sulfate(SO ₄ ²⁻)	0-1000 (ppm)	77.00000 ppm
Manganese(Mn)	0-10 (ppm)	0.00000 ppm
Calcium(Ca)	0-5000 (ppm)	0.00000 ppm
Barium(Ba)	0-10 (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)	9.20000 ppm
Assay(Titration by NaOH)	99-102.5 (%)	99.18000 %
Chloride (Cl ⁻)	0-500 (ppm)	431.00000 ppm
Potassium(K)	0-50 (ppm)	29.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-100 (ppm)	77.00000 ppm
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	Limit Values	Result
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
λ , 0.1 M in 5 M HCl	Pass	Pass
Insoluble matter	pass	Pass

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

John Su
QA & QC Manager