

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-10-25 13:12:17
Date of Next Testing:	2027-10-24 13:12:17
Product Name:	<b>Magnesium oxide</b>
CAS Number:	1309-48-4
Specifications & Purity:	Analytical Reagent,98.0%
Lot #:	J2317029
SKU #	<b>M103940</b>
<b>Analysis:</b>	<b>206475</b>

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-0.003 (%)	0.00%
(PO <sub>4</sub> )Phosphate	0-0.003 (%)	0.00%
Sodium(Na)	0-0.05 (%)	0.02%
Barium and strontium(as Ba)	0-0.005 (%)	0.00%
Iron(Fe)	0-0.005 (%)	0.00%
Chloride (Cl <sup>-</sup> )	0-0.01 (%)	0.01%
Copper(Cu)	0-0.001 (%)	0.00%
Potassium(K)	0-0.005 (%)	0.00%
carbonate (CO <sub>2</sub> )	0-1.5 (%)	1.08%
loss on Ignition	0-2 (%)	0.26%
Calcium(Ca)	0-0.02 (%)	0.01%
Insiluble matter in hydrochloric	0-0.01 (%)	0.00%
Zinc(Zn)	0-0.005 (%)	0.00%
Total Nitrogen	0-0.001 (%)	0.00%
(As)Arsenic	0-0.0001 (%)	0.00%
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.02 (%)	0.02%
Insoluble matter in HCl	0-0.01 (%)	0.00%
Assay(MgO)	98-100 (%)	99.98%
Appearance (M103940)	White powder	White powder
Clarity of solution	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager