

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-06-20 09:46:05

Date of Next Testing: 2029-06-19 09:46:05

Product Name: **Magnesium oxide**

CAS Number: 1309-48-4

Specifications & Purity: AR, ≥98%

Lot #: F2517410

SKU #: **M103940**

Version: **0**

**Analysis #:** **520685**

Storage Temperature: Room temperature

| Parameter                               | Limit Values          | Result                |
|-----------------------------------------|-----------------------|-----------------------|
| Heavy metal (as Pb)                     | 0-0.003 (%)           | 0.00000 %             |
| (PO <sub>4</sub> )Phosphate             | 0-0.003 (%)           | 0.00100 %             |
| Sodium(Na)                              | 0-0.05 (%)            | 0.04600 %             |
| Barium and strontium(as Ba)             | 0-0.005 (%)           | 0.00374 %             |
| Iron(Fe)                                | 0-0.005 (%)           | 0.00110 %             |
| Chloride (Cl-)                          | 0-0.01 (%)            | 0.00540 %             |
| Copper(Cu)                              | 0-0.001 (%)           | 0.00090 %             |
| Potassium(K)                            | 0-0.005 (%)           | 0.00270 %             |
| carbonate (CO <sub>2</sub> )            | 0-1.5 (%)             | 0.60000 %             |
| Calcium(Ca)                             | 0-0.02 (%)            | 0.00300 %             |
| Insoluble matter in hydrochloric        | 0-0.01 (%)            | 0.00000 %             |
| Zinc(Zn)                                | 0-0.005 (%)           | 0.00164 %             |
| Total Nitrogen                          | 0-0.001 (%)           | 0.00088 %             |
| (As)Arsenic                             | 0-0.0001 (%)          | 0.00010 %             |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> ) | 0-0.02 (%)            | 0.00200 %             |
| Insoluble matter in HCl                 | 0-0.01 (%)            | 0.00000 %             |
| loss on Ignition                        | 0-2 (%)               | 1.95000 %             |
| Assay(MgO)                              | 98-100 (%)            | 98.03000 %            |
| Appearance (M103940)                    | White powder          | White powder          |
| Clarity of solution                     | pass                  | Pass                  |
| X-Ray Diffraction                       | Conforms to Structure | Conforms to Structure |



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

John Su  
QA & QC Manager