

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|--------------------------|
| Date of Testing: | 2023-05-31 14:46:10 |
| Date of Next Testing: | 2027-05-30 14:46:10 |
| Product Name: | Magnesium oxide |
| CAS Number: | 1309-48-4 |
| Specifications & Purity: | Analytical Reagent,98.0% |
| Lot #: | E2323432 |
| SKU # | M103940 |
| Analysis: | 210339 |

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Heavy metal (as Pb) | 0-0.003 (%) | 0.00% |
| (PO ₄)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 ⁻) | 0-0.01 (%) | 0.00% |
| Copper(Cu) | 0-0.001 (%) | 0.00% |
| Potassium(K) | 0-0.005 (%) | 0.00% |
| carbonate (CO ₂) | 0-1.5 (%) | 0.00% |
| loss on Ignition | 0-2 (%) | 0.93% |
| 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 ₄ ²⁻) | 0-0.02 (%) | 0.01% |
| Insoluble matter in HCl | 0-0.01 (%) | 0.00% |
| Assay(MgO) | 98-100 (%) | 99.78% |
| 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". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager