

Certificate of Analysis

Date of Testing:	2024-11-21 11:19:51
Date of Next Testing:	2028-11-20 11:19:51
Product Name:	Magnesium oxide
CAS Number:	1309-48-4
Specifications & Purity:	AR, ≥98%
Lot #:	K2418328
SKU #	M103940
Version	0
Analysis #:	426944

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 (%)	0.01 %
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 (%)	0.53 %
loss on Ignition	0-2 (%)	0.47 %
Calcium(Ca)	0-0.02 (%)	0.01 %
Insoluble 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 (%)	98.01 %
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