

CERTIFICATE OF ANALYSIS

Product Name:	Magnesium Oxide, Heavy		
CAS NO.:	1309-48-4	Ref. Standard:	USP43 &EP10.0 (Pharma grade)
Batch Number:	20220508	Manuf. Date:	May 10, 2022
Quantity:	1000kg	Expiration Date:	May 09, 2025
Storage Condition:	Preserve in tight,light resistant container at controlled room temperature dry place.		

Item	Specification	Result
Assay	After burning on ignition to be constant, calculated on the Anhydrous substance,weight of MgO should be 98%-100.5%	99.5%
Appearance	White or almost white fine powder	White powder
Appearance of solution	It should meet the specification	Conforms
Identification	The solution should match the reaction of magnesium: Positive	Conforms
Physical Characteristics		
Solubility	Practically insoluble in water. It dissolves in dilute acids with at most slight effervescence	Conforms
Loss on ignition	≤8.0%	0.3%
Free Alkali	≤2.0ml of the acid is consumed	0.2ml
Soluble substances	≤2.0%	0.6%
Substance insoluble in acetic acid	≤0.10%	0.03%
Sulfates	≤1.0%	Conforms
Chloride	≤0.10%	Conforms
Calcium(Ca)	≤1.10%	Conforms
Bulk Density	≥0.25g/ml	0.75g/ml
Heavy Metals		
Arsenic(As)	≤4ppm	Conforms
Iron(Fe)	≤500ppm	Conforms
Microbiological Tests		
Total plate Count	≤1000cfu/g	Conforms
Yeast & Mold	≤100cfu/g	Conforms
E.Coli.	Negative/10g	Negative
Conclusion:	Conform to USP43 &EP10.0 Standard.	

Tested by: Tiantian Wang

Checked by: Xiao Wang

Approved by: Yulian Liu

