
Certificate of Analysis

(Representative Sample Certificate)

Product Name: Magnesium Hydroxide, USP
INCI Name: Magnesium Hydroxide
CAS Number: 1309-42-8
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 48 months from production date

Property	Specification	Analysis
Mag. Hydroxide as Mg(OH) ₂	95.0 - 100.5%	99.4%
Identification	Positive for magnesium	Passes test
Microbial Limit	Absence of E.coli	Absent - passes test
Loss on Drying (105 °C)	2.00% MAX	0.24%
Loss on Ignition (800 °C)	30.0 - 33.0%	30.1%
Free Alkali (as 0.1N H ₂ SO ₄)	2.0 mL MAX	<2.0 mL
Soluble Salts	2.00% MAX	0.40%
Carbonate (USP test method)	To pass test	Passes test
Calcium as Ca	0.30% MAX	0.04%
Lead as Pb	0.3 ppm MAX	<0.3 ppm
Arsenic as As	1.5 ppm MAX	<1.5 ppm
Substances Insoluble in HAC	0.100% MAX	0.028%
Chlorides as Cl	1000 ppm MAX	186 ppm
Sulphates as SO ₄	0.50% MAX	0.06%
Iron as Fe	700 ppm MAX	17 ppm
Bulk Density (untapped)	0.25 - 0.55 g/cc	0.38 g/cc
Tapped Density (1000 taps)	0.40 - 0.60 g/cc	0.50 g/cc
Residue on 325 Mesh	5.0% MAX	2.8%

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.” This report is not to be signed. All data are as per our supplier.

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