

Certificate of Analysis

Product: Magnesium Stearate, Lab Grade

Item Number: MASTGL

Grade: Lab

Lot Number: 5001471/10.1

Manufacture Date: 07/02/2025

Expiration Date: 07/01/2030

Country of Origin: United States

Tested Property	Specification	Analysis
Appearance	White or almost white, fine light powder, greasy to the touch.	Pass
Solubility	Insoluble in water and in anhydrous ethanol	Pass
Identification A: Chromatography	RT should be complied with that of the standard	Pass
Identification B: Reaction of Mg	RT should be complied with that of the standard	Pass
Loss on Drying	NMT 4.0%	2.96%
Heavy Metals	NMT 0.004%	<0.004%
Arsenic	NMT 3 ppm	<3 ppm
Acidity or Alkalinity	NMT 0.05 of 0.1M HCL or 0.1M NaOH	Pass
Chloride	NMT 0.1%	<0.1%
Sulphate	NMT 1.0%	<1.0%
Cadmium	NMT 3 ppm	<3 ppm
Lead	NMT 10 ppm	<10 ppm
Nickel	NMT 5 ppm	<5 ppm
Specific Surface Area	Between 5 to 15 m ² /g	Pass
Assay (Mg on Dried Basis)	4.0 - 5.0%	4.82%
Bulk Density	0.35 - 0.55 gm/mL	0.49 gm/mL
Relative Content of Stearic Acid and Palmitic Acid:		
Sum of Stearic and Palmitic Acid	NLT 90%	97.55%
Sum of Stearic Acid and Palmitic Acid	NLT 40%	41.35%
Microbial Test:		

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TYMC	NMT 100 cfu/gm	10 cfu/gm
E. coli	Absent/gm	Absent
Salmonella	Absent/gm	Absent
TAMC	NMT 1000 cfu/gm	50 cfu/gm

Store in a cool, dry, and well-ventilated environment.
CAS RN: 557-04-0

[Magnesium Stearate, Lab Grade](#)

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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