

Certificate of Analysis

Product: Magnesium Stearate, Derived from Palm Oil, RSPO MB, Kosher, Halal

Item Number: MASTFP

Grade: USP/NF/Food

Lot Number: 5001170/5.1

Manufacture Date: 04/10/2024

Expiration Date: 04/09/2027

Country of Origin: Singapore

Tested Property	Specification	Analysis
Appearance	Fine powder, greasy (slippery) to the touch	Fine powder, greasy (slippery) to the touch
Color	White	White
Odor	Slightly fatty (typical as standard)	Slightly fatty (typical as standard)
ID Freezing Fatty Acids	>53.0oC	56.1oC
ID Value of Fatty Acids	198-210 mg KOH/g	208 mg KOH/g
ID Fatty Acid Retention Time	Conforming	Conforming
ID for Magnesium	Conforming	Conforming
Acidity or Alkalinity (0.1M)	<0.05 mL	0.01mL
Chloride	<0.1%	<0.1%
Sulfates	<0.5%	<0.5%
Heavy Metals (total)	<10ppm	<5ppm
Sieve Residue (200 mesh)	<1.00%	0.07%
Specific Surface Area	<7.0 m ² /g	<7.0 m ² /g
Mercury	<0.1ppm	<0.1ppm
Loss on Drying	<4.0%	2.9%
Magnesium Content	4.1-5.0%	4.7%
Oxide	6.65-8.30%	7.85%
Residual Solvents	To Pass Test	Passes

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Total Aerobic Microbial Count	<1000 CFU	<10 CFU
Mold & Yeast	<100 CFU	<10 CFU
Fatty Acid Comp (C18)	Min 40%	44.6%
Fatty Acid Comp (C16 + C18)	Min 90%	99.3%

Supply Chain Certification Number: SCS-RSPOSCC-000514

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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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