

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

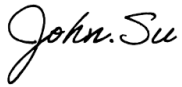
Date of Testing:	2024-11-29 16:15:07
Date of Next Testing:	2028-11-28 16:15:07
Product Name:	Magnesium stearate
CAS Number:	557-04-0
Specifications & Purity:	pharmaceutical grade, PharmPure™, USP, Ph.Eur., BP, JP, ChP
Lot #:	K2425043
SKU #	M498313
Version	1
Analysis #:	254680
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
Freezing Point of Fatty Acids	≥53 (°C)	55.80000 °C
Acidity or Alkalinity(0.1M)	0-0.05 (ml)	0.05000 ml
Chloride (Cl-)	0-0.1 (%)	0.03000 %
Sulphates	0-0.5 (%)	0.20000 %
Lead(Pb)	0-2 (ppm)	0.30 ppm
Arsenic(As)	0-3 (ppm)	0.20000 ppm
Nickel(Ni)	0-5 (ppm)	0.10 ppm
Cadmium(Cd)	0-1 (ppm)	0.05 ppm
Loss on drying(105°C)	0-4 (%)	2.60 %
Magnesium(Mg)	4-5 (%)	4.80 %
Sieve Residue at 200 mesh (75μ)	0-1 (%)	0.10000 %
bulk density	140-200 (g/L)	197.00 g/L
Oxide	6.65-8.3 (%)	7.91000 %
Fatty Acid Composition(C18)	≥40 (%)	43.10000 %
Fatty Acid Composition(C16 + C18)	≥90 (%)	99.20000 %
Total Aerobic Microbial Count	0-1000 (cfu/g)	10.00 cfu/g
Yeasts and moulds	≤100 (cfu/g)	10.00000 cfu/g
Specific Surface Area	1-7 (m2/g)	3.50 m2/g
Particle Size Distribution(typical)D10%	2.5-2.9 (μm)	2.60000 μm
Particle Size Distribution(typical) D50%	9.0-11.4 (μm)	10.20000 μm
Particle Size Distribution(typical)D90%	19.8-24.2 (μm)	21.30000 μm
Acid Value of Fatty Acids	198-210 (mgKOH/g)	208.00000 mgKOH/g
Heavy Metals (total)	0-10 (ppm)	5.00000 ppm
Iron(Fe)	0-0.01 (%)	0.00 %
Fatty Acid GC Retention Time	conforms	Conforms

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Parameter	Limit Values	Result
ICP: Confirms Magnesium Component	Confirmed	Confirmed
Residual Solvents	Pass	Pass
Escherichia coli (Absent in 1 g)	Pass	Pass
Salmonella (absent in 10 g)	passes test	Passes test
Appearance(M498313)	white solid	White Solid

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager