

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-19 17:08:25

Date of Next Testing: 2029-09-18 17:08:25

Product Name: **Magnesium stearate**

CAS Number: 557-04-0

Specifications & Purity: PharmPure™, USP, ChP, JP, BP, Ph.Eur.

Lot #: I2509731

SKU #: **M498313**

Version: **1**

Analysis #: **549038**

Storage Temperature: Room temperature, Desiccated

| Parameter                                | Limit Values      | Result            |
|------------------------------------------|-------------------|-------------------|
| Freezing Point of Fatty Acids            | ≥53 (°C)          | 56.30000 °C       |
| Acid Value of Fatty Acids                | 198-210 (mgKOH/g) | 208.00000 mgKOH/g |
| Acidity or Alkalinity(0.1M)              | 0-0.05 (ml)       | 0.05000 ml        |
| Chloride (Cl-)                           | 0-0.1 (%)         | 0.05000 %         |
| Sulphates                                | 0-0.5 (%)         | 0.25000 %         |
| Heavy Metals (total)                     | 0-10 (ppm)        | 2.50000 ppm       |
| Lead(Pb)                                 | 0-2 (ppm)         | 0.20000 ppm       |
| Arsenic(As)                              | 0-3 (ppm)         | 0.20000 ppm       |
| Nickel(Ni)                               | 0-5 (ppm)         | 0.10000 ppm       |
| Cadmium(Cd)                              | 0-1 (ppm)         | 0.05000 ppm       |
| Loss on drying(105°C)                    | 0-4 (%)           | 2.60000 %         |
| Magnesium(Mg)                            | 4-5 (%)           | 4.79000 %         |
| bulk density                             | 140-200 (g/L)     | 186.00000 g/L     |
| Oxide                                    | 6.65-8.3 (%)      | 7.95000 %         |
| Fatty Acid Composition(C18)              | ≥40 (%)           | 43.80000 %        |
| Fatty Acid Composition(C16 + C18)        | ≥90 (%)           | 99.10000 %        |
| Total Aerobic Microbial Count            | 0-1000 (cfu/g)    | 5.00000 cfu/g     |
| Yeasts and moulds                        | ≤100 (cfu/g)      | 5.00000 cfu/g     |
| Specific Surface Area                    | 1-7 (m2/g)        | 3.50000 m2/g      |
| Particle Size Distribution(typical)D10%  | 2.5-2.9 (µm)      | 2.70000 µm        |
| Particle Size Distribution(typical) D50% | 9.0-11.4 (µm)     | 10.00000 µm       |
| Particle Size Distribution(typical)D90%  | 19.8-24.2 (µm)    | 21.50000 µm       |
| Iron(Fe)                                 | 0-0.01 (%)        | 0.00500 %         |
| Sieve Residue at 200 mesh (75µ)          | 0-1 (%)           | 0.95000 %         |
| 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 |

John Su  
QA & QC Manager