CERTIFICATE OF ANALYSIS (COA)

MEDOVAQ Light Magnesium Carbonate - Batch Release Specimen

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1. BATCH IDENTIFICATION

Product: Light Magnesium Carbonate (Pharma / Food Grade)
Sample Batch Ref: MVQ-2026-LMC-0482 [Sanitized Demonstration Specimen]
Date of Manufacture: October 2026 | Retest Date: October 2029
Chemical Formula: 4MgCO3.Mg(OH)2.5H2O | CAS: 546-93-0 / 13717-00-5

2. CHEMICAL & PHYSICAL ANALYSIS

Assay (as MgO, ignited basis): 42.4% (Specification: 40.0% - 45.0% w/w) - PASSED
Loose Bulk Density: 0.12 g/cm3 (Specification: 0.10 - 0.15 g/cm3) - PASSED
Tapped Bulk Density: 0.18 g/cm3 (Specification: 0.15 - 0.22 g/cm3) - PASSED
Loss on Drying (LOD @ 105 C): 1.2% (Specification: <= 2.0%) - PASSED
Loss on Ignition (LOI @ 900 C): 56.1% (Specification: 54.0% - 58.0%) - PASSED
Soluble Substances: 0.45% (Specification: <= 1.0%) - PASSED
Sieve Residue (200 Mesh / 75 um): 0.00% (Specification: Nil) - PASSED

3. TRACE HEAVY METALS (AAS / ICP-OES)

Lead (Pb): 0.8 ppm (Specification: <= 2.0 ppm) - PASSED
Arsenic (As): 0.4 ppm (Specification: <= 2.0 ppm) - PASSED
Cadmium (Cd): < 0.1 ppm (Specification: <= 1.0 ppm) - PASSED
Mercury (Hg): < 0.02 ppm (Specification: <= 0.1 ppm) - PASSED

4. MICROBIOLOGICAL ASSAY (USP <61>/<62>)

Total Aerobic Microbial Count (TAMC): < 100 CFU/g (Limit: <= 1,000 CFU/g) - PASSED
Total Yeast and Mold Count (TYMC): < 10 CFU/g (Limit: <= 100 CFU/g) - PASSED
Escherichia coli & Salmonella spp.: Absent in 10g - PASSED

5. MONOGRAPH CERTIFICATION

Conforms to USP 44-NF 39, BP 2026, Ph. Eur. 11.0, and FCC monographs.
Status: APPROVED FOR RELEASE | Head of Quality Assurance: Dr. S. Mehta