

Material No.: 2257-06
Batch No.: 23G2561031
Manufactured Date: 2022-08-01
Retest Date: 2027-07-31
Release Date: 2023-08-20
Revision No.: 0

Certificate of Analysis

Meets ChP Chemical Specifications, Meets F.C.C. Requirements, Meets J.P. Chemical Specifications, Meets B.P. Chemical Specifications, Meets N.F. Requirements, Meets E.P. Chemical Specifications, GMP Manufactured Product

Test	Specification	Result
NF – Assay (as as Mg) (dried basis)	4.0 – 5.0 %	4.7 %
NF – Stearic Acid	≥ 40 %	67 %
NF – Stearic and Palmitic Acids	≥ 90 %	99 %
NF – Identification A	Passes Test	Passes Test
NF – Identification B	Passes Test	Passes Test
NF – Acidity or Alkalinity	Passes Test	Passes Test
NF – Microbiological	Passes Test	Passes Test
NF – Total Aerobic Microbial Count (cfu/g)	≤ 1000	< 10
NF – Total Mold and Yeast Count (cfu/g)	≤ 500	< 10
NF – Salmonella Species (negative)	Passes Test	Passes Test
NF – Escherichia Coli (negative)	Passes Test	Passes Test
NF – Loss on Drying at 105°C	≤ 6.0 %	3.4 %
Specific Surface Area, m ² /g	5.0 – 10.0	5.9
NF – Limit of Chloride	≤ 0.1 %	< 0.1 %
NF – Limit of Sulfate	≤ 1.0 %	< 0.6 %
NF – Cadmium (Cd)	≤ 3 ppm	< 1 ppm
NF – Lead (Pb)	≤ 10 ppm	< 10 ppm
NF – Nickel (Ni)	≤ 5 ppm	< 1 ppm
EP/BP – Identification C	Passes Test	Passes Test
EP/BP – Identification D	Passes Test	Passes Test
EP/BP – Acidity or Alkalinity	Passes Test	Passes Test
EP/ BP – Chloride (Cl)	≤ 0.1 %	< 0.1 %
EP/BP – Sulfate (SO ₄)	≤ 1.0 %	< 0.6 %
EP/BP – Cadmium (Cd)	≤ 3 ppm	< 1 ppm
EP/BP – Lead (Pb)	≤ 10 ppm	< 10 ppm
EP/BP – Nickel (Ni)	≤ 5 ppm	< 1 ppm
EP/BP – Loss on Drying at 105°C	≤ 6.0 %	3.4 %
EP/BP – Total Aerobic Microbial Count (cfu/g)	≤ 1000	< 10

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Test	Specification	Result
EP/BP – Escherichia Coli (negative)	Passes Test	Passes Test
EP/BP – Assay (as as Mg) (dried basis)	4.0 – 5.0 %	4.7 %
EP/BP – Salmonella (absent)	Passes Test	Passes Test
EP/BP – Stearic Acid	≥ 40.0 %	67.2 %
EP/BP – Stearic and Palmitic Acids	≥ 90.0 %	98.7 %
EP/BP – Total Mold and Yeast Count (cfu/g)	≤ 100	< 10
JP – Identification	Passes Test	Passes Test
JP – Acidity or Alkalinity	Passes Test	Passes Test
JP – Chloride (Cl)	≤ 0.1 %	< 0.1 %
JP – Sulfate (SO ₄)	≤ 1.0 %	< 0.6 %
JP – Heavy Metals (as Pb)	≤ 20 ppm	< 20 ppm
JP – Stearic Acid	≥ 40 %	67 %
JP – Stearic and Palmitic Acids	≥ 90 %	99 %
JP – Loss on Drying at 105°C	≤ 6.0 %	3.4 %
JP – Microbiological	Passes Test	Passes Test
JP – Total Aerobic Microbial Count (cfu/g)	≤ 1000	< 10
JP – Total Mold and Yeast Count (cfu/g)	≤ 500	< 10
JP – Salmonella Species (negative)	Passes Test	Passes Test
JP – Escherichia Coli (negative)	Passes Test	Passes Test
JP – Assay (as as Mg) (dried basis)	4.0 – 5.0 %	4.7 %
FCC – Identification A	Passes Test	Passes Test
FCC – Identification B	Passes Test	Passes Test
FCC – Assay (as MgO)	6.8 – 8.3 %	7.5 %
FCC – Lead (Pb)	≤ 5 mg/kg	< 5 mg/kg
FCC – Loss on Drying at 105°C	≤ 4.0 %	3.4 %
Thru U.S. No. 325 Sieve, For Information Only		97.6 %
Tapped Density (g/cc)	0.21 – 0.33	0.27
Apparent (Bulk) Density	0.07 – 0.17 g/cm ³	0.11 g/cm ³
Particle Size (50th percentile) (µm)	10.5 – 16.5	11.8
Particle Size (90th percentile) (µm)	≤ 35	21
ChP – Identification 1	Passes Test	Passes Test
ChP – Identification 2	Passes Test	Passes Test

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Test	Specification	Result
ChP – Acidity or Alkalinity	Passes Test	Passes Test
ChP – Chlorides (Cl)	≤ 0.10 %	< 0.10 %
ChP – Sulfates (SO ₄)	≤ 0.6 %	< 0.6 %
ChP – Loss on Drying @ 80° C	≤ 5.0 %	0.7 %
ChP – Iron (Fe)	≤ 0.01 %	< 0.01 %
ChP – Cadmium (Cd)	≤ 0.0003 %	< 0.0001 %
ChP – Nickel (Ni)	≤ 0.0005 %	< 0.0001 %
ChP – Heavy metals	≤ 0.001 %	< 0.001 %
ChP – Stearic Acid	≥ 40.0 %	67.2 %
ChP – Stearic and Palmitic Acids	≥ 90.0 %	98.7 %
ChP – Total Aerobic Microbial Count	≤ 1000 CFU/g	< 10 CFU/g
ChP – Total Yeast and Mold	≤ 100 CFU/g	< 10 CFU/g
ChP – Salmonella	None Detected	None Detected
ChP – Escherichia Coli	None Detected	None Detected
ChP – Assay (as Mg) (dried basis)	4.0 – 5.0 %	4.7 %

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Magnesium Stearate, Hyqual[®],
Vegetable Source
NF – GenAR[®]



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Test	Specification	Result
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GMP Manufactured Product
Food GMP Manufactured Product
Bulk Food Chemical
Bulk Pharmaceutical Chemical
CAUTION: For Manufacturing, processing or repackaging
No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC
Manufacturer: P0110001
Manufacturer source batch: 2208000126

Michelle Bales
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700