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Certificate of Analysis

Product Description: D-(+)-Glucosamine Hydrochloride
Catalog Number: 101782
Lot: SR02381

Formula: $C_6H_{13}NO_5 \cdot HCl$
CAS #: 66-84-2
Physical Description: White Powder

Formula Weight: 215.64
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	$\leq 0.5\%$	0.02%
Optical Rotation	$+72^\circ \pm 10^\circ$ (c=1, water)	$+76^\circ$
Residue on Ignition	$\leq 0.1\%$	0.04%
Arsenic	≤ 0.5 ppm	≤ 0.5 ppm
Heavy Metals	≤ 10 ppm	< 10 ppm
Iron	≤ 20 ppm	< 10 ppm
Solubility (5% aq soln)	Clear, Colorless Solution	Passes

Assay: 99.83%
Transm: 96.8%
Absorb: 0.09 a.u.
pH (20 mg/ml): 4.13
Chloride: 16.5%
Sulfate: ≤0.24%
Bulk Density: 0.72 g/ml
Particle Size (NLT 90% through USS sieve#20 -100%, #80-35%, #200-5%, #325-1%)
Lead: <0.5 ppm
Total Plate Count: NMT 100 cfu/g
Yeast & Mold: NMT 30 cfu/g
Salmonella: Negative
E.coli: Negative
Staphylococcus: Negative
Organic Volatile Impurities: Meets the requirements
Chloroform: ≤60 ppm
1,4 - Dioxane: ≤380 ppm
Methylenechloride: ≤600 ppm
Trichloroethylene: ≤80 ppm
Recommended Retest Date (MM/DD/YYYY): 02/19/2024



02/24/2020 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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