



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: D-(+)-Glucosamine Hydrochloride_
Catalog Number: 101782_
Lot: 9728JA_

Formula: C₆H₁₃NO₅·HCl
CAS #: 66-84-2
Physical Description: White Powder

Formula Weight: 215.64
Storage: Room Temperature

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
Loss on Drying: 0.02%
Optical Rotation (c=1, water): +71.70°
Residue on Ignition: 0.04%
Arsenic: <0.5 ppm
Heavy Metals: <10 ppm
Iron: <10 ppm
Organic Volatile Impurities: Meets the requirements
Chloroform: #60 ppm
1,4 - Dioxane: #380 ppm
Methylenechloride: #600 ppm
Trichloroethylene: #80 ppm

This is an electronically generated document

<mailto:biotech@mpbio.com>

<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)