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Certificate of Analysis

Product Description: Heparin Sodium Salt
Catalog Number: 101931
Lot: M5907**Formula:** N/A
CAS #: 9041-08-1
Physical Description: White Powder**Formula Weight:** ~17,500
Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Activity	≥100 u/mg	198 u/mg
Moisture	≤10%	3.5%
Protein	Negative	Negative
Nitrogen	~2.2%	1.9%
pH	~7.0	6.7
Expiration Date	Month/Day/Year	11/30/2014

H-NMR: Meets USP Requirements
HPLC: Passes
Reaction of Sodium: Passes
Limit of Galactosamine in Total Hexosamine: 0.3%
Nucleotide Impurities (OD260 nm): 0.05
OSCS: Meets USP Requirements
Residual Ethanol: 490 ppm
Residue on Ignition: 37.0%
Heavy Metals: ≤30 ppm
Anti-Fxa/Anti-FIIa: 0.97
Anti-Fxa Potency: 193 USP u/mg
Bacterial Endotoxins: <0.03 USP EU/USP U
Total Viable Aerobic Count: Not Detected
Yeast & Molds: Not Detected
E. coli: Not Detected
Salmonella: Not Detected

Christina Marotta

01/28/2013 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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