



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Insulin, Human Recombinant
Catalog Number: 193900
Lot: 1568K

Formula: N/A CAS #: 11061-68-0 Physical Description: Fine White Powder	Formula Weight: 5807.6 Storage: -20°C
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Test	Specification	Result
Identity Test	Passes	Passes
Activity	~28 IU/mg	27.0 IU/mg (as is)
Zinc Content	0.25 - 1.1%	0.36 %
Expressed in	For Information Only	6/30/2010

High Molecular Proteins: 0.11%
Related Proteins:
-- A21 Desamido Human Insulin: 0.4 %
-- Human Insulin Related Impurities: 0.5 %
Loss on Drying: 5.9 %
Sulphated Ash (dried basis): 0.5 %
Microbiological Control:
-- Total Viable Count: <20 CFU/g
-- Bacterial Endotoxins: <0.33 IU/mg
Assay (dried basis): 28.7 u/mg
Assay (dried basis): 99.0 %
Host Cell-derived Proteins: #10 ppm
Insulin Human Methyl Ester: #0.2%
Insulin Human Precursor: <0.1%
Proinsulin content: None

09/05/2008 - Robert Beattie
MP Biomedicals, LLC.
Technical Director

This is an electronically generated document

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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)