



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Ciprofloxacin Hydrochloride Catalog Number: 199020 Lot: MR28118

Formula: C ₁₇ H ₁₈ FN ₃ O ₃ ·HCl CAS #: 86393-32-0 Physical Description: Fine, Off-white Powder	Formula Weight: 367.8 Storage: +4°C
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Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Reference	Conforms to Reference
Melting Point	313 - 322°C	315.9°C
Expiration Date	Month/Day/Year	5/31/2013

pH: 3.8
Water (KF): 6.0%
Residue on Ignition: 0.05%
Sulphate: <0.04%
Heavy Metals: #0.002%
Limit of Fluoroquinolonic Acid: #0.2%
Assay (HPLC): 99.5%
Ciprofloxacin Ethylenediamine Analog: 0.12%
Any Other Single Impurity: <0.2%
Total Impurities: 0.42%
Ethanol: 0.05%
Toluene: Not Detected

Christina Marotta

03/18/2011 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

<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)