



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: Naloxone Hydrochloride
Catalog Number: 190245
Lot: MR28208

Formula: C₁₉H₂₁NO₄·HCl

CAS #: 357-08-4

Physical Description: Off-white Crystalline Powder

Formula Weight: 363.82

Storage: +4°C, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Moisture	For Information Only	12.67%

Melting Point: 129.0-129.2°C

Assay: 99.6% (HPLC)

Chloride: 9.82%

Related Substances:

-- 10-Hydroxynaloxone: 0.11%

-- d7-Naloxone: 0.27%

-- 2,2-bis-Naloxone: 0.14%

Related Substances (total specified and unspecified): 0.79% (HPLC)

Related Substances (largest individual): <0.5%

Residual Solvents:

-- Ethanol: 2600 ppm

-- Methanol: <200 ppm

Specific Rotation (2.5% aq soln): -179°

Sulphated Ash (residue on ignition): <0.1%

Water: 9.0% (KF)

04/14/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

<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)