



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: Spectinomycin Dihydrochloride Pentahydrate

Catalog Number: 152067

Lot: M2781

Formula: C₁₄H₂₄N₂O₇·2HCl·5H₂O

CAS #: 22189-32-8

Physical Description: White Powder

Formula Weight: 495.36

Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Source	<i>Streptomyces</i> sp.	<i>Streptomyces</i> sp.
Potency	≥500 µg/mg	651 µg/mg (based on hydrous substance, HPLC)
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	<20%	17.6%
Optical Rotation	Positive	+17.0°
Heavy Metals	≤0.005%	Passes
Expiration Date	Month/Year	6/30/2014

pH: 4.8

Sulfated Ash: 0.2%

Acetone: 0.04%

Microbial Limit:

-- Bacteria: <10 cfu/g

-- Fungi and Yeast: <10 cfu/g

-- E. coli: Not Detected

Related Substances:

-- Impurity D: 0.4%

-- Impurity E: 0.9%

-- Impurity A: 0.4%

-- Impurity C: Not Detected

-- Impurity F: 0.1%

- Impurity G: Not Detected
- Any Other Impurity 0.1%
- Total Impurities: 1.9%

Assay (based on anhydrous substance):

- (4R) Dihydrospectinomycin Dihydrochloride: 1.6%
- Sum of the Contents of Spectinomycin Dihydrochloride and (4R) Dihydrospectinomycin Dihydrochloride: 96.4%

Christina Marotta

11/15/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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

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