



**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:** Spectinomycin Dihydrochloride Pentahydrate

**Catalog Number:** 152067

**Lot:** M2365

**Formula:** C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub>·2HCl·5H<sub>2</sub>O

**CAS #:** 22189-32-8

**Physical Description:** Off-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/Day/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*

09/08/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

This is an electronically generated document

<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)