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Certificate of Analysis

Product Description: Spectinomycin Dihydrochloride Pentahydrate, cell culture reagent
Catalog Number: 194540
Lot: MR28940

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> species	<i>Streptomyces</i> sp.
Activity	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°
Expiration Date	Month/Year	6/30/2014

Heavy Metals: <0.005%

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%

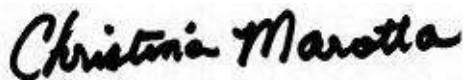
-- Total Impurities: 1.9%

Assay (based on anhydrous substance):

-- (4R) Dihydrospectinomycin Dihydrochloride: 1.6%

-- Sum of the Contents of Spectinomycin Dihydrochloride and (4R) Dihydrospectinomycin

Dihydrochloride: 96.4%



04/05/2012 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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<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)