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Certificate of Analysis

Product Description: Spectinomycin Dihydrochloride Pentahydrate, cell culture reagent
Catalog Number: 194540
Lot: MR31851

Formula: $C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$
CAS #: 22189-32-8
Physical Description: Fine, 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	650 µg/mg
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	<20%	17.6%
Optical Rotation	Positive	+18.0°
Expiration Date	Month/Year	6/15/2016

Heavy Metals: <50 ppm
Solubility: Clear and Colorless
pH: 4.7

Sulfated Ash: 0.3%

Acetone: 0.04%

Microbial Limit:

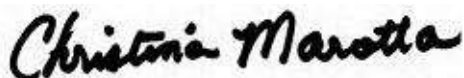
- Bacteria: <10 cfu/g
- Fungi and Yeast: <10 cfu/g
- E. coli: Not Detected

Related Substances:

- Impurity D: 0.4%
- Impurity E: 0.9%
- Impurity A: 0.5%
- Impurity C: Not Detected
- Impurity F: 0.1%
- Impurity G: Not Detected
- Any Other Impurity: Not Detected
- Total Impurities: 1.9%

Assay (based on anhydrous substance):

- (4R) Dihydrospectinomycin Dihydrochloride: 1.7%
- Sum of the Contents of Spectinomycin Dihydrochloride and (4R) Dihydrospectinomycin Dihydrochloride: 96.3%



09/19/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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