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Certificate of Analysis

Product Description: Ampicillin Sodium Salt, cell culture reagent
Catalog Number: 194526
Lot: MR31802**Formula:** $C_{16}H_{18}N_3O_4SNa$
CAS #: 69-52-3
Physical Description: Free flowing powder**Formula Weight:** 371.39
Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Potency	≥800 µg/mg	883 µg/mg
pH (1% aq soln)	8 - 10	9.0
Water	≤2%	1.02% (KF)
Expiration Date	Month/Day/Year	2/28/2016

Identity Test (IR, TLC, Chemical Reaction): Passes all three

Foreign matter:

≥10 µm: 420

≥25 µm: 2

Acetone: 0.0%

Specific Volume (bulk): 1.9 ML/G

Specific Volume (tapped): 1.5 ML/G

2-Propanol: 0.4530%

Appearance of Solution: Passes

a) Test solutions are not more opalescent than the reference

b) The absorbance of the water solution at 430 nm is <0.15

Optical Rotation: +274°

Related Substances:

a) Ampicillin dimer: 2.0%

b) Any Other Individual Impurity: 0.85%

N,N-Dimethylaniline: Not Found

2-Ethylhexanoic Acid: Not Found

Methylene Chloride: <0.2% m/m

Heavy Metals: <20 ppm

Sterility: Passes

Bacterial Endotoxins: <0.15 IU

Christina Marotta

08/29/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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