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Certificate of Analysis

Product Description: Ampicillin Sodium Salt, gamma-Irradiated, molecular biology reagent
Catalog Number: 194199
Lot: QR12459

Formula: $C_{16}H_{18}N_3NaO_4S$
CAS #: 69-52-3
Physical Description: Light Yellow Powder

Formula Weight: 371.39
Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Potency	$\geq 800 \mu\text{g}/\text{mg}$	883 $\mu\text{g}/\text{mg}$
pH (1% aq soln)	8 - 10	8.4
Loss on Drying	$\leq 2\%$	1.02% (KF)
gamma-irradiated	Passes	Passes
Expiration Date	Month/Day/Year	07/14/2018

Identity Test

- IR: Passes
- TLC: Passes
- Chemical Reaction: Passes
- Sodium Reaction: Passes

Appearance of Solution

- Clear
 - A430 nm (10% w/v aq soln): <0.012
- Specific Rotation: +274°

- Related Substances:
- Ampicillin Dimer: 2.0%
 - Any Other Individual Impurity: 0.85%

N,N-Dimethylaniline: Not Found

Methylene Chloride: ≤0.2%

Heavy Metals: <20 ppm

Assay (HPLC): 94.1%

2-Ethylhexanoic Acid: Not Found

Bacterial Endotoxins: ≤0.15 IU

Sterility: Passes

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%



07/19/2016 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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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)