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Certificate of Analysis

Product Description: Ampicillin Sodium Salt, gamma-Irradiated, molecular biology reagent
Catalog Number: 194199
Lot: MR30719

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

Formula Weight: 371.39
Storage: +4°C

Test	Specification	
Identity Test	Passes	Passes
Potency	$\geq 800 \mu\text{g/mg}$	883 $\mu\text{g/mg}$
pH (1% aq soln)	8 - 10	9.0
Loss on Drying	$\leq 2\%$	1.02% (KF)
gamma-irradiated	Passes	Passes
Expiration Date	Month/Day/Year	2/28/2015

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

Solution:

- Test solutions are not more opalescent than the reference: Passes
- The absorbance of the water solution at 430 nm is <0.15 : Passes

Optical Rotation: $+274^\circ$

Related Substances:

- Ampicillin dimer is $<4.5\%$: 2.0%
- Any other individual impurity is $<2.0\%$: 0.85%

N,N-Dimethylaniline: Not Found

2-Ethylhexanoic Acid: Not Found

Methylene Chloride: Conforms

Heavy Metals: <20 ppm

Sterility: Passes

Foreign matter:

- NLT10UM: 420

- NLT25UM: 2

Acetone: 0.0%

Specific volume (bulk): 1.9 ML/G

Specific volume (tapped): 1.5 ML/G

2-Propanol: 0.4530%

Christina Marotta

09/24/2013 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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