29525 Fountain Parkway Solon, Ohio 44139



**Certificate of Analysis** 

Telephone: 440/337-1200

Toll Free: 800/854-0530

Product Description: Ampicillin Sodium Salt, gamma-Irradiated, molecular biology reagent

Catalog Number: 194199

Lot: MR30719

 Formula:
 C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>NaO<sub>4</sub>S
 Formula Weight:
 371.39

 CAS #:
 69-52-3
 Storage:
 +4°C

Physical Description: Powder

## Test Specification

Identity Test	Passes	Passes
Potency	≥800 µg/mg	883 μg/mg
pH (1% aq soln)	8 - 10	9.0
Loss on Drying	<u>&lt;</u> 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° Related Substances:

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

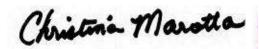
N,N-Dimethylaniline: Not Found 2-Ethylhexanoic Acid: Not Found Methylene Chloride: Conforms

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%



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

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