

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** Ampicillin Sodium Salt  
**Catalog Number:** 190148  
**Lot:** QR10659**Formula:**  $C_{16}H_{18}N_3O_4SNa$ **CAS #:** 69-52-3**Physical Description:** Free flowing powder**Formula Weight:** 371.4**Storage:** +4°C

Test	Specification	Result
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)
Expiration Date	Month/Day/Year	2/28/2016

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

Foreign matter:

 $\geq 10 \mu\text{m}$ : 420 $\geq 25 \mu\text{m}$ : 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:  $+274^\circ$ 

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/mHeavy Metals:  $<20$  ppm

Sterility: Passes

Bacterial Endotoxins:  $<0.15$  IU



06/09/2015 - John Huang, PhD  
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