

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Polymixin B Sulfate, cell culture reagent

Catalog Number: 194538

Lot: MR28429

Formula: $C_{55}H_{96}N_{16}O_{13} \cdot 2H_2SO_4$

CAS #: 1405-20-5

Physical Description: White Powder

Formula Weight: 1385.63

Storage: +4°C, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
Potency	$\geq 6,000$ u/mg	7927 u/mg (as is) 8043 u/mg (on dried basis)
FTIR	Conforms to Standard	Conforms to Standard
pH (1% aq soln)	5 - 7	6
Loss on Drying	$\leq 8\%$	0.54%
Expiration Date	Month/Day/Year	4/30/2016

Specific Optical Rotation: -87°

Related Substances (HPLC):

- Major Impurity: 2.1%

- Sum of Impurities: 14.3%

Phenylalanine: 11%

Sulphated ash: 0.06%

Sulphate: 16.6%

Heavy Metals: <20 ppm

TAMC: <10 cfu/g

TYMC: <10 cfu/g

Assay (HPLC, dry basis):

- Sum of Polymyxins B1,B2,B3,B1-l: 91.6%

- Polymyxin B3: 3.5%

- Polymyxin B1-l: 9.1%

Particle Size:

- >99% #20 μm by vol.

- >90% #15 μm by vol.

- >75% #10 μm by vol.
- >35% #5 μm by vol.

Christina Marotta

07/08/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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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)