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## Certificate of Analysis

**Product Description:** Geneticin® Disulfate Salt, cell culture grade.

**Catalog Number:** 158782.

**Lot:** QR14311.

**Formula:** C<sub>20</sub>H<sub>40</sub>N<sub>4</sub>O<sub>10</sub>·2(H<sub>2</sub>SO<sub>4</sub>)

**CAS #:** 108321-42-2

**Physical Description:** White Powder

**Formula Weight:** 692.7

**Storage:** 2-8°C

Test	Specification	Result
Identity Test	Passes	Passes
Potency	≥450 µg/mg	785 µg/mg
Purity	~98%	Passes
FTIR	Conforms to Reference	Conforms to Reference
OD280 (0.1% aq soln)	<0.015	0.006
OD570 (10.0% aq soln)	<0.10	0.034

Solubility: Clear, Colorless Solution

Water (KF): 3.5%

pH: 5.7

Specific Optical Rotation: +121°

NH<sub>4</sub><sup>+</sup>: <1.0%

Thin Layer Chromatogram: 1 spot

Recommended Retest Date: 06/18/2020

06/20/2017 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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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)