

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Protamine Sulfate

Catalog Number: 102752

Lot: 1671K

Formula: N/A

CAS #: 9009-65-8

Physical Description: Fine, White Powder

Formula Weight: N/A

Storage: Room Temperature, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
Source	Salmon Sperm	Salmon Sperm
Loss on Drying	≤5%	2.3%
Sulfate	16 - 22%	18%
Nitrogen	22.5 - 25.5%	24.2%
Activity	≥100 USP u/mg	115 USP u/mg

UV Absorption: #0.1% (260-280nm)

Endotoxins: # 0.4 USP u/mg

09/19/2008 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

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)