

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: Doxorubicin Hydrochloride_
Catalog Number: 159101_
Lot: 5088J_

Formula: C₂₇H₂₉NO₁₁·HCl

CAS #: 25316-40-9

Physical Description: Reddish Orange Powder

Formula Weight: 579.99

Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥95%	99.9% (anhydrous and solvent free)
FTIR	Conforms to Reference	Conforms to Reference

pH: 5.4
Water: 0.64%
Acetone: Not Detected
1-Butanol: 0.03%
Ethanol: 0.72%
Doxorubicinone: <0.05%
Any Other Impurity: 0.08%
Total Impurities: 0.08%

04/04/2007 - 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)