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## Certificate of Analysis

**Product Description:** Quinine Hemisulfate\_  
**Catalog Number:** 102792\_  
**Lot:** 2926J\_

**Formula:**  $C_{20}H_{24}N_2O_2 \cdot \frac{1}{2}H_2SO_4$   
**CAS #:** 6119-70-6  
**Physical Description:** White Powder

**Formula Weight:** 373.5  
**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	$\geq 90\%$	99.7%
FTIR	Conforms to Standard	Conforms to Standard

Water: 4.4%  
Residue on Ignition: 0.03%  
Heavy Metals: 0.0005%  
Assay (anhydrous basis): 99.7%  
Chloroform-Alcohol Insoluble Substances: 0.04%  
Limit of Dihydroquinine Sulfate: 5.1%

07/17/2006 - Robert Beattie  
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)