



**MP Biomedicals, LLC**

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## Certificate of Analysis

**Product:** Quinine Sulfate  
**Catalog No.:** 102792  
**Formula:**  $C_{40}H_{50}N_4O_8S$   
**Purity:**  
**Physical Description:** White crystalline powder

**Lot No.:** 58881  
**Formula Weight:** 746.93  
**Storage:** Room Temperature

### Analysis

FTIR  
Melting Point  
Optical Rotation (c=5; 1 N HCl)

Conforms to Reference  
179.8-183.1°C  
-132.6°

01/18/1999 - Joseph Dietz, Ph.D.  
MP Biomedicals, LLC  
Technical Director