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## Certificate of Analysis

**Product Description:** L-Serine Methyl Ester Hydrochloride  
**Catalog Number:** 102875  
**Lot:** 6481KA

**Formula:** C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub>·HCl  
**CAS #:** 5680-80-8  
**Physical Description:** Off-White Crystalline Powder

**Formula Weight:** 155.6  
**Storage:** -0°C

Specific rotation: +4.6° (c=1 in MeOH)

Loss on drying: 0.25%

Purity (HPLC): 98.7%

Melting Point: 160-164°C

*Christina Marotta*

04/12/2010 - Christina Marotta  
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)