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## Certificate of Analysis

**Product Description:** Melphalan\_  
**Catalog Number:** 155345\_  
**Lot:** M6965\_

**Formula:** C<sub>13</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

**CAS #:** 148-82-3

**Physical Description:** Powder

**Formula Weight:** 305.2

**Storage:** Room Temperature, protect from light

Test	Specification	Result
Identity Test	Passes	Passes
Purity	#95%	98.26%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	175 - 185°C	175.1 - 177.3°C
Moisture	#7%	2.89%
Optical Rotation (c=0.7, methanol)	-31° ± 5°	-34.37°

Residue on Ignition: 0.05%

Ionizable Chlorine: 0.45 ml of 0.1 N silver nitrate/500 mg sample

Nitrogen: 8.98%

Organic Volatile Impurities: Meets the Requirements

*Christina Marotta*

06/11/2013 - 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)