



**MP Biomedicals, LLC**

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## Certificate of Analysis

**Product Description:** Etoposide\_  
**Catalog Number:** 193918\_  
**Lot:** 1317K\_

**Formula:** C<sub>29</sub>H<sub>32</sub>O<sub>13</sub>  
**CAS #:** 33419-42-0  
**Physical Description:** White Powder

**Formula Weight:** 588.60  
**Storage:** Room Temperature

IR: Identical to Standard Reference  
Optical Rotation: -113°  
Loss on Drying: 1.5%  
Residue on Ignition: 0.08%  
Heavy Metals: <20 ppm  
Assay: 98.1%  
Residual Solvents:  
-- Ethanol: <50 ppm  
-- Chloroform: <50 ppm

08/04/2008 - 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  
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