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Certificate of Analysis

Product Description: beta-Estradiol-17-valerate
Catalog Number: 190415
Lot: MR28196

Formula: C₂₃H₃₂O₃
CAS #: 979-32-8
Physical Description: White Powder

Formula Weight: 356.5
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes

Specific Rotation: +43.21°
Water: 0.07%
Limit of Estradiol: 1.0% (max)
Free Acid: 0.08%
Ordinary Impurities: Complies
Assay: 101.36%
Melting Point: 146.3 - 146.8°C

Christina Marotta

04/14/2011 - 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)