



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: beta-Estradiol
Catalog Number: 101656
Lot: Q4609

Formula: C₁₈H₂₄O₂
CAS #: 50-28-2
Physical Description: White Powder

Formula Weight: 272.39
Storage: Room Temperature, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
Assay	≥98%	99.4% (anyh)
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	173 - 179°C	176.7-179.0°C
Optical Rotation	+76° to +83°	79.7°

Loss on Drying: 2.90%
TLC Solvent System: R_f=0.23 (in 2:1 Hexane:Ethyl Acetate)
TLC examined under: UV
TLC Visualized by: pTSA/Iodine
TLC: Homogenous (Purity: 98% or greater)
Single impurities: 0.14%
Total impurities: 0.63%
Solubility: Soluble in most organic solvents
Recommended Retest Date: 07/20/2019

07/28/2016 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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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)