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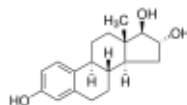
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Estriol – meets USP testing specifications

Product Number: E1149
Batch Number: SLBV3272
Brand: SIGMA
CAS Number: 50-27-1
MDL Number: MFCD00003691
Formula: C₁₈H₂₄O₃
Formula Weight: 288.38 g/mol
Quality Release Date: 15 JUN 2017
Recommended Retest Date: JUL 2019



Test	Specification	Result
Identity	Pass	Pass
Loss on Drying	≤ 0.5 %	0.2 %
Specific Rotation Between + 54 and + 62 DEG (C = 0.4 in dioxane at 25 DEG C)	54 - 62 °	58 °
Residue on ignition < or = 0.1%	Pass	Pass
Assay Dry basis	97.0 - 102.0 %	98.8 %
Chromatographic Purity < or = 2.0% total impurities	Pass	Pass
Completeness of Solution	Pass	Pass
Residual Solvents USP 467	Meets Requirements	Class 3 solvents only, < / = 0.5%
Residual Solvents Testing Required	Pass	Pass

Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.