

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

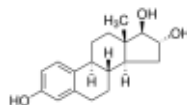
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:  
Estriol - ≥97%

**Product Number:** E1253  
**Batch Number:** SLBX9705  
**Brand:** SIGMA  
**CAS Number:** 50-27-1  
**MDL Number:** MFCD00003691  
**Formula:** C<sub>18</sub>H<sub>24</sub>O<sub>3</sub>  
**Formula Weight:** 288.38 g/mol  
**Quality Release Date:** 19 JUN 2018  
**Recommended Retest Date:** JUN 2021



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Yellow and Colorless to Faint Brown and Colorless to Brown-Yellow	Colorless
Solubility (Turbidity) 50 mg/ml, Pyridine	Clear	Clear
<sup>1</sup> H NMR Spectrum	Conforms to Structure	Conforms
Loss on Drying	≤ 0.5 %	0.1 %
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
Chromatographic Purity < or = 2.0% total impurities	Pass	Pass
Assay (UV Absorbance) (Dry basis)	≥ 97 %	99 %

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.

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

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