

## Certificate of Analysis

Date of Testing: 2023-04-21 15:54:55  
 Date of Next Testing: 2025-04-20 15:54:55  
 Product Name: **Ethinyl Estradiol**  
 CAS Number: 57-63-6  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: D23142186  
 SKU #: **E129595**  
**Analysis:** **176216**  
 Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Melting point	181-185 (°C)	184.47000 °C
Purity(Neutralization titration)	97.5-102.5 (%)	100.86 %
Purity(HPLC)	98-100 (%)	99.66500 %
Specific Rotation $[\alpha]_{20/D}(c=0.4 \text{ in Pyridene})$	-32--28 (°)	-28.11 °
Appearance (E129595)	White to Off-White to Light Yellow Powder or Crystals	White to Off-White to Light yellow Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Colorless to Pale Yellow Clear(50 mg/ml)	pass	Pass



John Su  
QA & QC Manager