

## Certificate of Analysis

Date of Testing: 2024-07-02 15:10:15  
Date of Next Testing: 2026-06-22 15:10:15  
Product Name: **Estrone**  
CAS Number: 53-16-7  
Specifications & Purity: analytical standard  
Lot #: F2426285  
SKU #: **E105516**  
Version: **0**  
Analysis #: **380075**

Parameter	Limit Values	Result
Specific Rotation [ $\alpha$ ] <sub>20</sub> /D(c=1 in Dioxane)	161-168 (°)	161.70°
Purity(HPLC)	99-100 (%)	99.53400 %
Appearance (E105516)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager