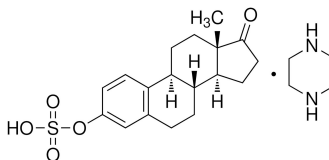


# Certificate of Analysis

**Product Name :** Estropipate ≥98% (HPLC), powder  
**Product Number :** E2661-BULK  
**Batch Number :** 0000015307  
**CAS Number :** 7280-37-7  
**Storage Temperature :** Cooler/Refrigerated  
**Molecular Formula :** C<sub>18</sub>H<sub>22</sub>O<sub>5</sub>S·C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>  
**Formula Weight :** 436.56  
**Quality Release Date :** 17 Aug 2017



Test	Specification	Result
Appearance (Color)	White to Beige	White
Appearance (Form)	Powder	Powder
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Conforms to Requirements	Colorless
Concentration	≥ 24.0 mg/ml	54.0 mg/ml
DMSO		
Purity (HPLC)	≥ 97.5 %	99.0 %
Identity	Confirmed	Confirmed
Water Content	0.0 - 3.0 mol	0.0 mol
Salt Content	0.9 - 1.1 mol	1.0 mol
Elemental Composition	Pass	Pass
Optical Rotation	100.0 - 120.0 °	102.9 °
(C= 1, DMSO)		

Brendan Nye, QC Supervisor  
 Quality Control  
 Natick, Massachusetts  
 US