



## CERTIFICATE OF ANALYSIS

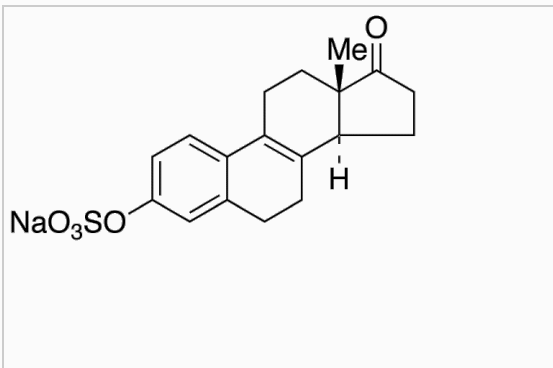
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### 1. Identification

**Catalogue Number:** D229645

**Product:**  $\Delta^8,9$ -Dehydro Estrone 3-Sulfate Sodium Salt  
(Stabilized with up to 40% Tromethamine)

**Structure:**



**CAS Number:** 61612-83-7

**Synonym:** 3-(Sulfooxy)-estra-1,3,5(10),8-tetraen-17-one Sodium Salt;

**Molecular Formula:**

$C_{18}H_{19}NaO_5S$

**Molecular weight:**

370.4

**Source of Product:**

Synthetic

**Solubility:**

Methanol (Slightly), Water (Slightly)

**Lot Number:** 45-GHZ-131-1

**Purity:** 97%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	97.74% (280 nm)
Specific Rotation	Report Result	+3.6° (c = 0.1, Water)
Elemental Analysis	Conforms	%C: 47.27, %H: 6.64, %N: 3.74

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	7/19/2021	7/17/2025