



CERTIFICATE OF ANALYSIS

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1. Identification

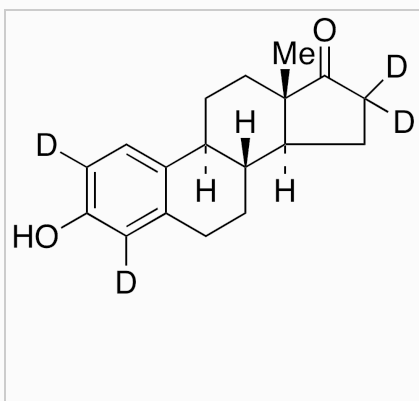
Catalogue Number: E889052

CAS Number: 53866-34-5

Product: Estrone-d4

Synonym: 3-Hydroxyestra-1,3,5(10)-trien-17-one-d4; (+)-Estrone-d4; 1,3,5(10)-Estratrien-3-ol-17-one-d4; 3-Hydroxy-17-keto-estra-1,3,5-triene-d4; Aquacrine-d4; Crinovaryl-d4; Cristallovaryl-d4; Crystogen-d4; WAY 164397-d4; Wynestron-d4;

Structure:



Molecular Formula:

C₁₈H₁₈D₄O₂

Molecular weight:

274.4

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly, Heated),
DMSO (Sparingly), Ethanol
(Slightly, Sonicated),

Lot Number: 2-RVK-138-3

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 Pale Orange Solid	Off-White to Pale Orange Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 77.70, %H: 8.26
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	97.8% (d0 = 0.23%)
Specific Rotation	Report Result	+174.7° (c = 0.1, Ethanol)
HPLC Purity	Report Result	98.07% (205 nm)

Additional Information: Contains: ~2.2% Dioxane

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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	12/10/2021	12/8/2025

