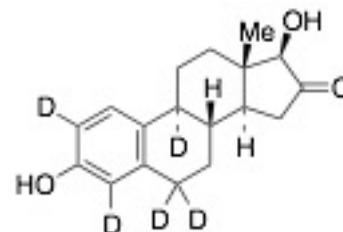


CERTIFICATE OF ANALYSIS**1. Identification**

Catalogue Number K188752 Lot Number 6-RAJ-79-1

Product Name
16-Keto 17 β -Estradiol-d5 (Major)

StructureSynonyms

(17 β)-3,17-Dihydroxyestra-1,3,5(10)-trien-16-one-d5; 1,3,5(10)-Estratriene-3,17 β -diol-16-one-d5; 16-Ketoestradiol-d5; 16-Oxo-17 β -estradiol-d5; 16-Oxoestradiol-d5; 16-Oxoestradiol-17 β -d5; NSC 51169-d5;

CAS Number

N/A Solubility
Acetonitrile (Slightly), DMSO (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₁₈H₁₇D₅O₃ Source of Product
Synthetic

Long Term Storage Conditions

-20°C

Molecular Weight

291.4 Purity
>95%

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	>95%	97.85% (210 nm)
MS	Conforms to Structure	Conforms

Additional Information

Normalized Intensity: d₀ = 0.09%, d₁ = 0.16%, d₂ = 0.27%, d₃ = 3.71%, d₄ = 22.38%, d₅ = 73.39%

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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
Sadaf Samadi Sadaf Samadi Quality Assurance Associate	Toni Rantanen Manager, Quality Assurance	Chanel Chu Quality Assurance Associate	12/11/2024	12/9/2028