



Certificate of Analysis

 Product Name:
 Estradiol-d₄

 Cat. No.:
 CS-0254543

 CAS No.:
 66789-03-5

 Batch No.:
 142070

Chemical Name: Estra-1,3,5(10)-triene-2,4,16,16-d4-3,17-diol, (17β)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{18}H_{20}D_4O_2$ **Molecular Weight:** 276.41

Storage: Storage temp. 2-8°C

Chemical Structure:

ANALYTICAL DATA

Appearance: White to off-white (Solid)

¹ H NMR Spectrum: Consistent with structure

LCMS: Consistent with structure

Purity (LCMS): 99.50%

Isotopic Enrichment: D4=73.16%, D3= 22.2%, D2=4.5 %, D1=0.1%

Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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