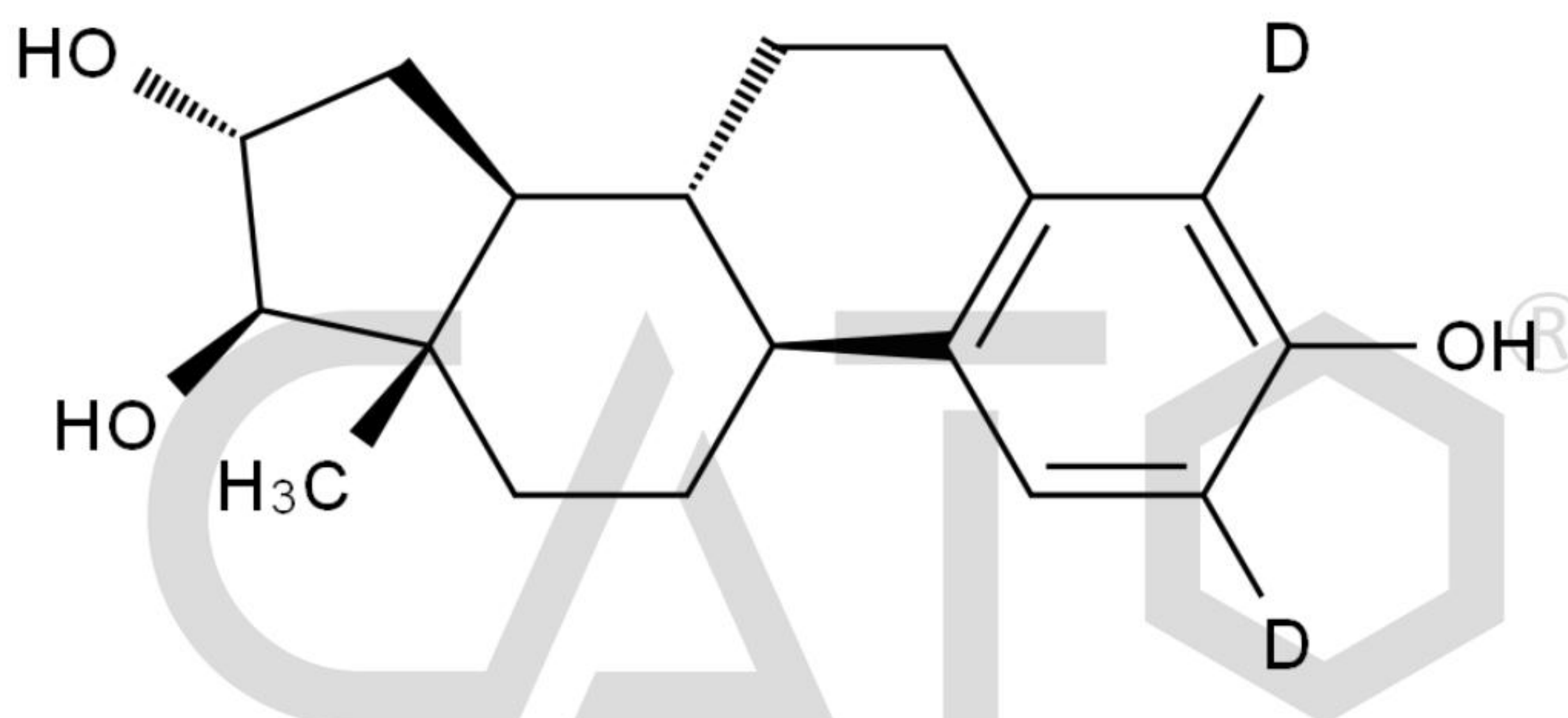


Certificate of Analysis

Reference Material & Standard

Product Name:	16 α -Hydroxy-17 β -estradiol-2,4-d2	Catalogue Number:	CCAD301201
Synonyms:	N/A	Lot Number:	0624-RH-0002
CAS Number:	53866-32-3	Expiry Date:	May 05, 2030
Molecular Formula:	C ₁₈ H ₂₂ D ₂ O ₃	Storage:	-20°C $\pm$ 5°C Protected from light and Sealed
Molecular Weight:	290.39	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	98.3%
Isotopic Purity		98.60%(D2: 97.21%; D1: 2.79%)
Assay	qNMR	91.9%
Uncertainty		$\pm$ 1.5%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Jun 25, 2026

Date: Jun 25, 2026

Date: Jun 25, 2026



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