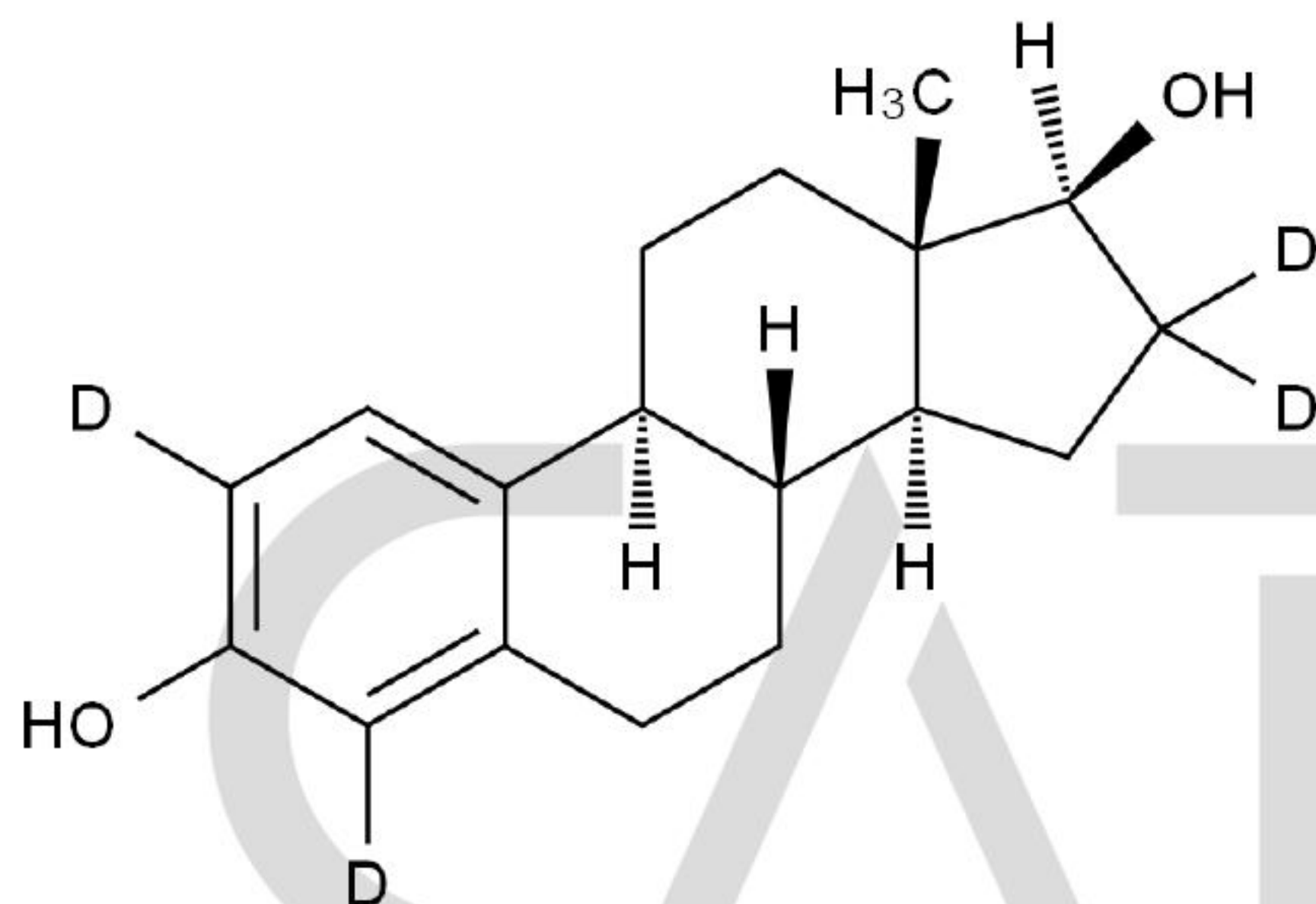


Certificate of Analysis

Reference Material & Standard

Product Name:	17beta-Estradiol-D4	Catalogue Number:	CCAD300711
Synonyms:	N/A	Lot Number:	0511-RF-0059
CAS Number:	66789-03-5	Expiry Date:	Jul 27, 2027
Molecular Formula:	C18H20D4O2	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	276.41	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	HRMS&HNMR	Confirmed
Chemical Purity	HPLC	99.1%
Isotopic Purity		98.4%
Uncertainty		±2.0%

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

Aproved by General Manager:

David

Date: May 14, 2024

Date: May 14, 2024

Date: May 14, 2024

