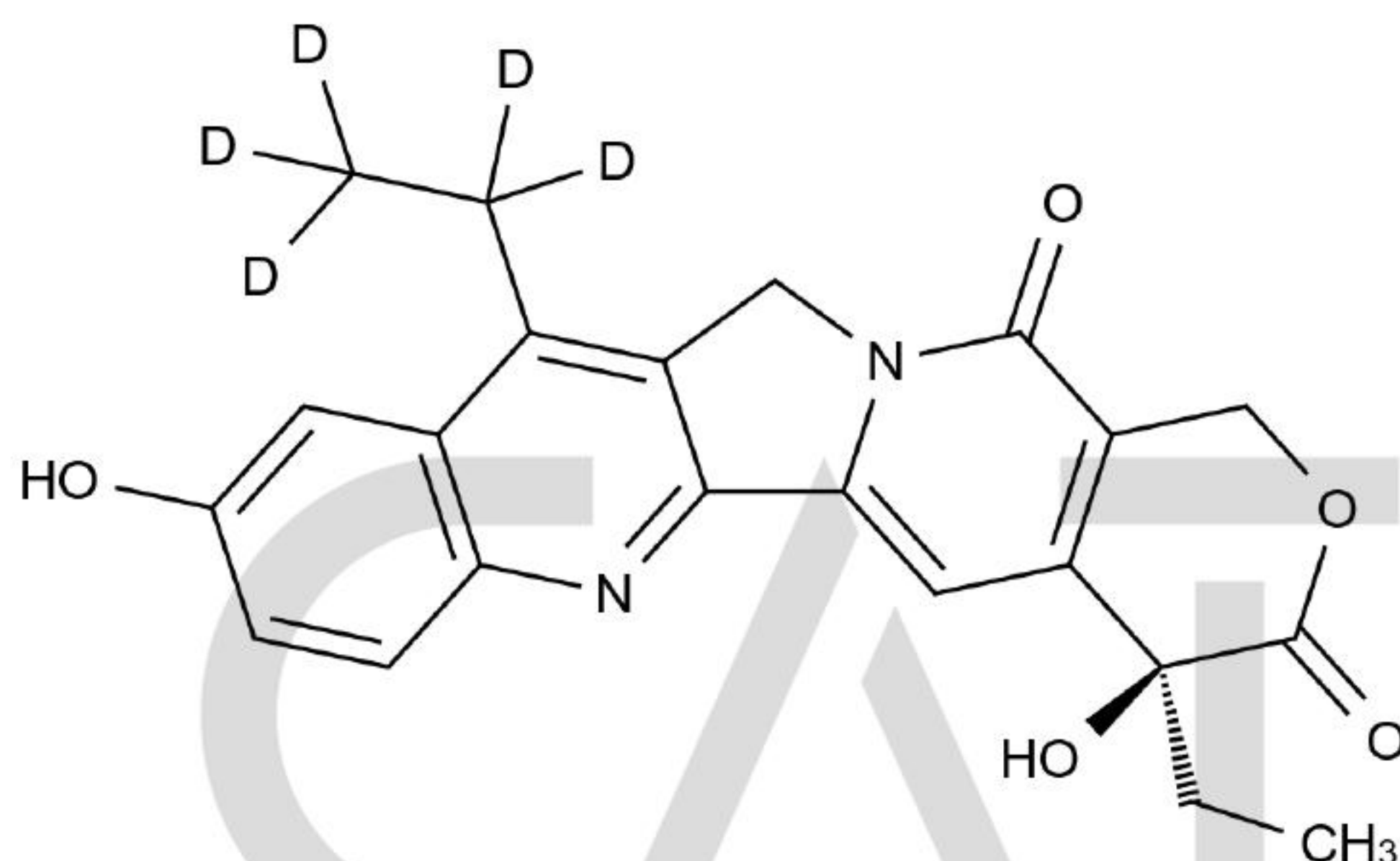


Certificate of Analysis

Reference Material & Standard

Product Name:	Irinotecan Impurity 52-D5	Catalogue Number:	C4X-166752
Synonyms:	N/A	Lot Number:	1123-RE-0006
CAS Number:	718612-51-2	Expiry Date:	Dec 07, 2025
Molecular Formula:	C ₂₂ H ₁₅ D ₅ N ₂ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	397.44	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	99.02%
Isotopic Purity		98.7
Water Content	Karl Fischer	2.60%
Residual Solvents	NMR	0.4% chloroform and 1.8% methanol
Specific Rotation		[α] _D 20.0(c=0.32, CHCl ₃ :CH ₃ OH=4:1(V:V)): +31.1°
Assay		94.3%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Nov 24, 2023

Date: Nov 27, 2023

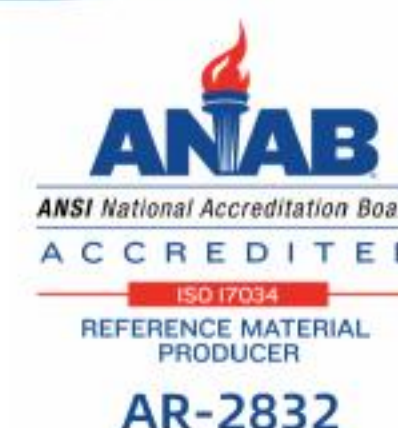
Date: Nov 27, 2023

Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>



Official WeChat