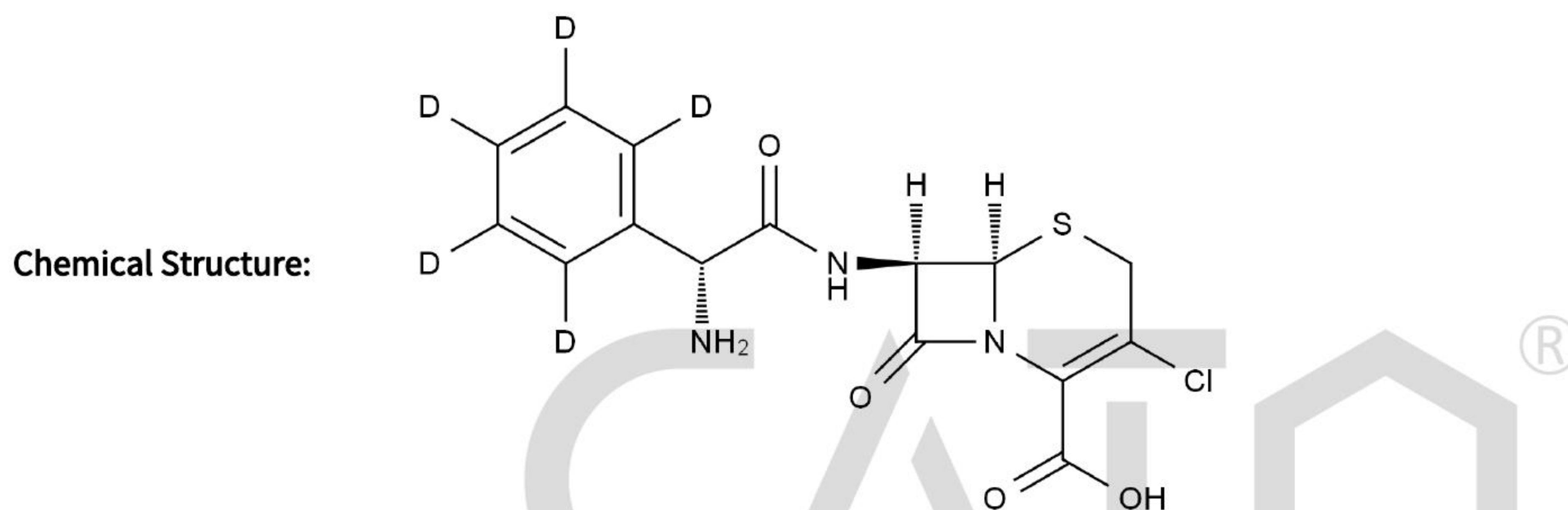


Certificate of Analysis

Reference Material & Standard

Product Name:	Cefaclor Impurity 23	Catalogue Number:	C4X-127023
Synonyms:	N/A	Lot Number:	0419-RF-0004
CAS Number:	1426173-90-1	Expiry Date:	Feb 20, 2027
Molecular Formula:	C ₁₅ H ₉ D ₅ ClN ₃ O ₄ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	372.84		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	97.53%
Isotopic Purity		99.5%
Water Content	Karl Fischer	4.50%
Residual Solvents	NMR	Not detected in NMR
Optical Rotation		[α] _D ^{25.0} (c=0.46,H ₂ O): +107.8°
Assay		93.1%

Comment:

The calculation of the 100% 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:

Hinlam

Aproved by General Manager:

David

Date: Apr 23, 2024

Date: Apr 23, 2024

Date: Apr 23, 2024

