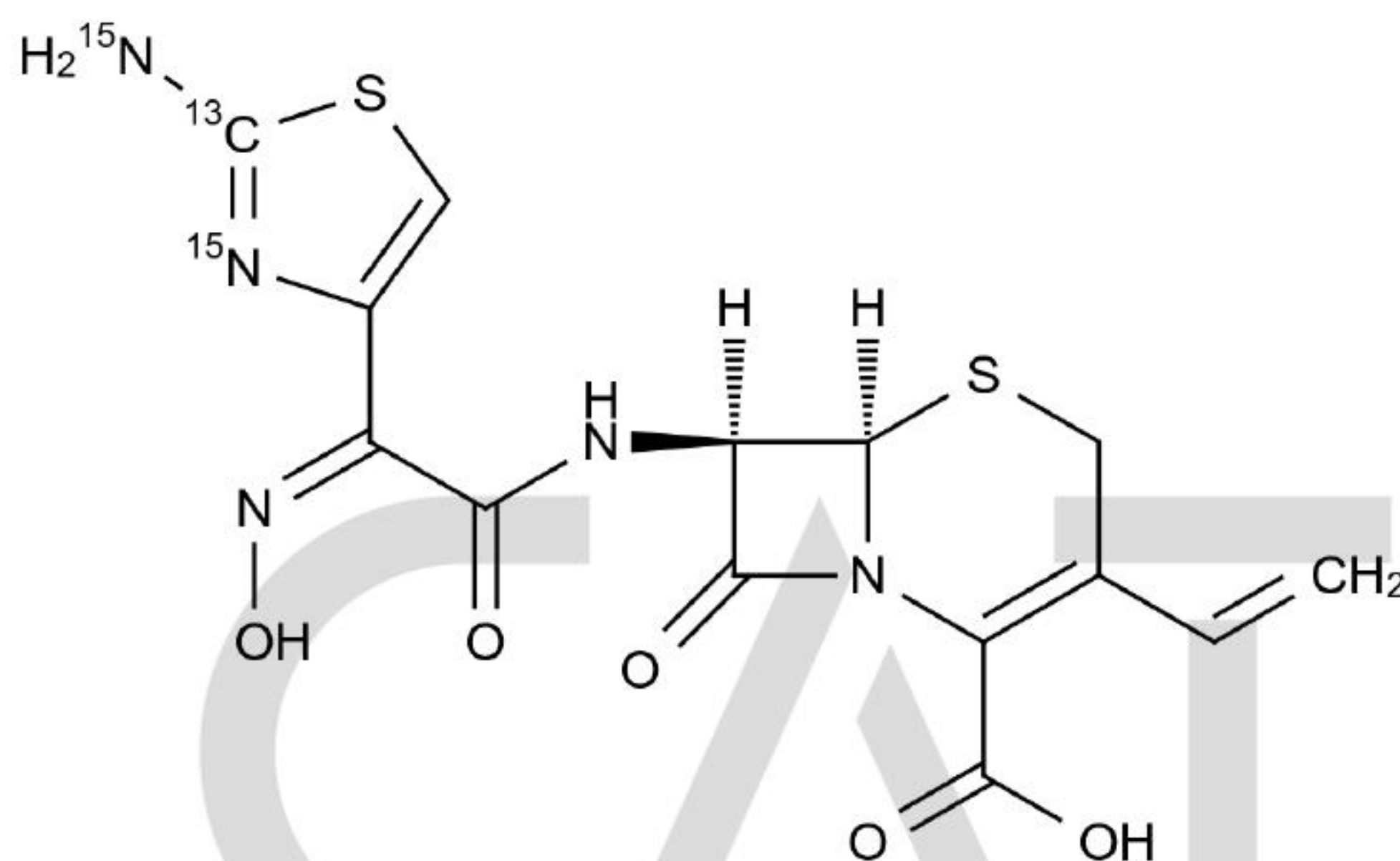


Certificate of Analysis

Reference Material & Standard

Product Name:	Cefdinir-13C-15N2	Catalogue Number:	C4X-121027
Synonyms:	N/A	Lot Number:	0821-RF-0003
CAS Number:	N/A	Expiry Date:	Apr 23, 2026
Molecular Formula:	C13[13C]H13N3[15N]2O5S2	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	398.39		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	96.3979%
Isotopic Purity		99.0%
Water Content	Karl Fischer	5.60%
Residual Solvents	NMR	0.1% acetonitrile
Optical Rotation		[α] _D ^{25.0} (c=0.50, CH ₃ OH): -48.4°
Assay		90.9%

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

Approved by General Manager:

David

Date: Aug 23, 2024

Date: Aug 26, 2024

Date: Aug 26, 2024

