

Certificate of Analysis

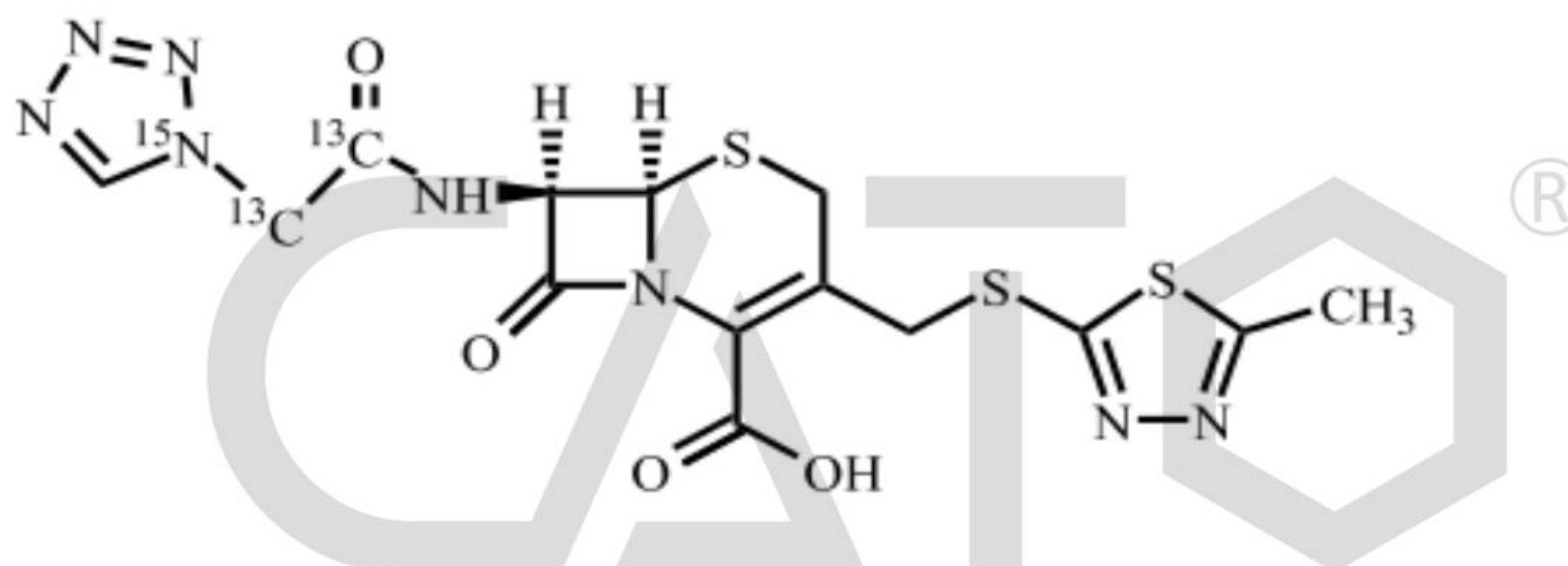
Reference Material & Standard

Product Name:	Cefazolin-13C2-15N	Catalogue Number:	C1797058
Synonyms:	N/A	Lot Number:	1017-RG-0104
CAS Number:	2101505-58-0	Expiry Date:	Jan 20, 2029
Molecular Formula:	C ₁₂ [¹³ C] ₂ H ₁₄ N ₇ [¹⁵ N]O ₄ S ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	457.49		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	99.5%
Isotopic Purity		99.0% ¹³ C; 98.0% ¹⁵ N
Optical Rotation		[α] _D ^{25.0} (c=0.43,DMSO): -53.4°
Assay	qNMR	93.9%

Signature:

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Reviewed by:

Hinlam

Approved by General Manager:

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Date: Oct 22, 2025

Date: Oct 23, 2025

Date: Oct 23, 2025



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