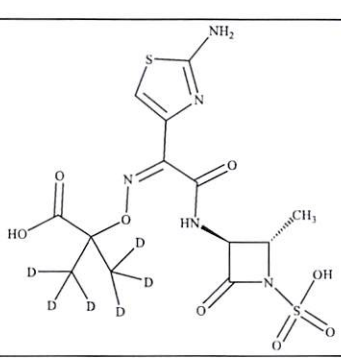


Certificate of Analysis



Certificate No.: 20251219502

Date: December 19, 2025

Retest date: December 17, 2028

Compound Name:	Aztreonam-d₆	
Synonyms:	2-((((Z)-1-(2-aminothiazol-4-yl)-2-(((2S,3S)-2-methyl-4-oxo-1-sulfoazetid-3-yl)amino)-2-oxoethylidene)amino)oxy)-2-(methyl-d ₃)propanoic-3,3,3-d ₃ acid	
TLC Catalogue Number:	A-108006	
CAS Number:	1127452-94-1	
Alternate CAS Number:	78110-38-0 (non-labelled)	
Molecular Weight:	441.46	
Molecular Formula:	C ₁₃ H ₁₁ D ₆ N ₅ O ₈ S ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	4453-018A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, Water, Methanol	

Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.8%
Impurity (HPLC)	RT 3.55, 0.17%; RT 13.13, 0.97%	
Isotopic Enrichment	Not less than 98.0%	98.5%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.39, DMSO): -29.2°
Residual Solvents (NMR)	0.2% acetonitrile	
Assay (qNMR)	Not less than 85.0%	87.0%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		12/19/2025
Approved by:	Quality Assurance		12/19/2025

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.