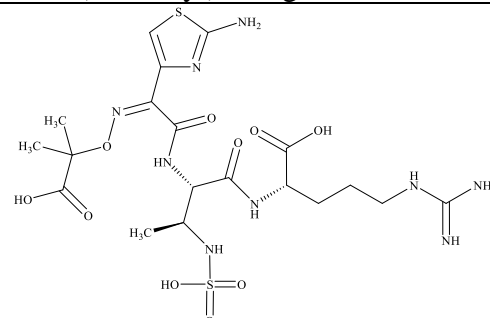


Certificate of Analysis

Certificate No.: 20210324013

Date: March 24, 2021

Retest date: March 15, 2024

Compound Name:	Aztreonam Impurity 3	
Synonyms:	((2S,3S)-2-((Z)-2-(2-aminothiazol-4-yl)-2-(((2-carboxypropan-2-yl)oxy)imino)acetamido)-3-(sulfoamino)butanoyl)-L-arginine	
TLC Catalogue Number:	A-108010	
CAS Number:	N/A	
Molecular Weight:	609.63	
Molecular Formula:	C ₁₉ H ₃₁ N ₉ O ₁₀ S ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	4255-037A9	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, Water	

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.5%
Impurity (HPLC)	RT 6.18, 0.18%	
Water Content (KF)	N/A	3.3%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.40, H_2O): -14.6^\circ$
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	96.2%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.