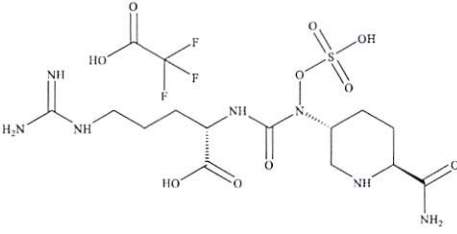


Certificate of Analysis



Certificate No.: 20251229015

Date: December 29, 2025

Retest date: December 25, 2028

Compound Name:	Avibactam Impurity 92 Trifluoroacetate	
Synonyms:	(((3R,6S)-6-carbamoylpiperidin-3-yl)(sulfooxy)carbamoyl)-L-arginine, 2,2,2-trifluoroacetic acid (1:1)	
TLC Catalogue Number:	A-192094	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	439.44 114.02	
Molecular Formula:	C ₁₃ H ₂₅ N ₇ O ₈ S. C ₂ HF ₃ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7252-007A3	
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
¹ H NMR	Conforms to structure	Conforms
¹⁹ F NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.9%
Impurity (HPLC)	N/A	
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.33, CH ₃ OH): -2.9°
Residual Solvents (¹H NMR and ¹⁹F qNMR)	0.9% methanol and 4.0% trifluoroacetic acid	
Assay (¹H qNMR)	Not less than 85.0%	89.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/05/2026
Approved by:	Quality Assurance		01/05/2026

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