

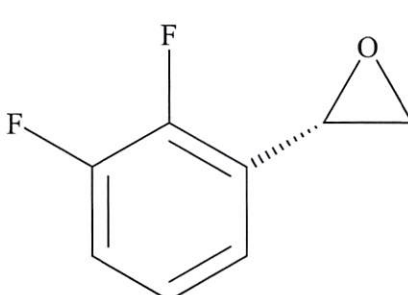
Certificate of Analysis

 Certificate No.: **20260612011**

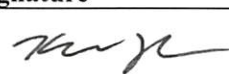

Date: June 12, 2026

Retest date: June 12, 2029

Compound Name: Ticagrelor Impurity 150	
Synonyms:	(S)-2-(2,3-difluorophenyl)oxirane
TLC Catalogue Number:	T-81319
CAS Number:	1689990-96-2
Alternate CAS Number:	N/A
Molecular Weight:	156.13
Molecular Formula:	C ₈ H ₆ F ₂ O
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7295-078A1
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Ethanol, Acetonitrile



Test Description	Specifications	Results
Visual Description	Colorless liquid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Purity (Chiral HPLC)	Not less than 98.0%	99.5%
Water Content (KF)	N/A	0.3%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.52, \text{CHCl}_3)$: +33.8°
Residual Solvents (NMR)	0.9% diethyl ether, 0.3% dichloromethane and 0.2% ethyl acetate	
Assay (%)	Not less than 90.0%	97.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/12/2026
Approved by:	Quality Assurance		06/12/2026

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