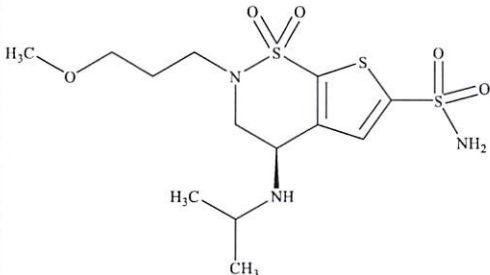


Certificate of Analysis



Certificate No.: **20250623001**

Date: June 23, 2025

Retest date: June 11, 2028

Compound Name:		Brinzolamide Impurity 2		
Synonyms:	(R)-4-(isopropylamino)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide			
TLC Catalogue Number:	B-2012			
CAS Number:	2985481-46-5			
Alternate CAS Number:	N/A			
Molecular Weight:	397.52			
Molecular Formula:	C ₁₃ H ₂₃ N ₃ O ₅ S ₃			
Source:	TLC Pharmaceutical Standards			
Source Lot No.:	6920-005A8			
Storage Conditions:	Store at 2-8 °C			
Solubility:	Methanol, DMSO, Acetonitrile, Ethanol			

Test Description	Specifications	Results
Visual Description	Pale yellow semi-solid	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%	98.8%
Impurity (HPLC)	RT 23.30, 0.15%; RT 24.49, 0.12%; RT 25.77, 0.59%	
Purity (Chiral HPLC)	Not less than 95.0%	96.2%
Water Content (KF)	N/A	0.6%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.88, CH ₃ OH): +12.7°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	94.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/23/2025
Approved by:	Quality Assurance		06/23/2025

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