

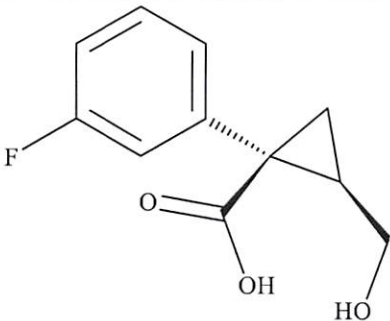
Certificate of Analysis

Certificate No.: 20260403020


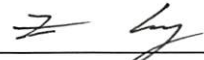
Date: April 3, 2026

Retest date: April 1, 2029

Compound Name: Lemborexant Impurity 28	
Synonyms:	(1S,2R)-1-(3-fluorophenyl)-2-(hydroxymethyl)cyclopropane-1-carboxylic acid
TLC Catalogue Number:	L-211038
CAS Number:	1450905-00-6
Alternate CAS Number:	3038094-68-4 (Sodium salt)
Molecular Weight:	210.20
Molecular Formula:	C ₁₁ H ₁₁ FO ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7304-085A2
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



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
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.45, DMSO): -74.7°
Residual Solvents (NMR)	0.1% methanol and 0.1% isopropyl ether	
Assay (%)	Not less than 90.0%	99.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		04/06/2026
Approved by:	Quality Assurance		04/06/2026

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