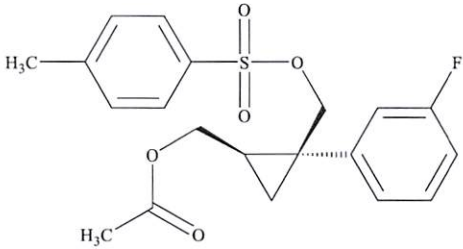


Certificate of Analysis


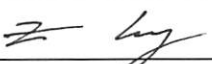
Certificate No.: 20260331007

Date: March 31, 2026

Retest date: March 27, 2029

Compound Name:	Lemborexant Impurity 3	
Synonyms:	((1R,2S)-2-(3-fluorophenyl)-2-((tosyloxy)methyl)cyclopropyl)methyl acetate	
TLC Catalogue Number:	L-211004	
CAS Number:	1450904-92-3	
Alternate CAS Number:	N/A	
Molecular Weight:	392.44	
Molecular Formula:	C ₂₀ H ₂₁ FO ₅ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7262-079A4	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, DMF	

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
Purity (HPLC)	Not less than 95.0%	98.4%
Impurity (HPLC)	RT 1.53, 0.26%; RT 1.59, 0.47%; RT 12.22 0.43%	
Water Content (KF)	N/A	0.1%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.49, CH_3OH)$: -45.0°
Residual Solvents (NMR)	0.4% ethyl acetate	
Assay (%)	Not less than 90.0%	97.9%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/31/2026
Approved by:	Quality Assurance		03/31/2026

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