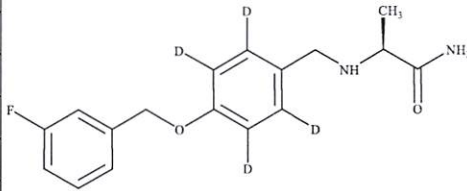


Certificate of Analysis



Certificate No.: 20260303509

Date: March 3, 2026

Retest date: February 27, 2029

Compound Name:	Safinamide-d₄	
Synonyms:	(2S)-2-[[[4-[(3-fluorophenyl)methoxy]phenyl-d ₄]methyl]amino]propanamide	
TLC Catalogue Number:	S-073005	
CAS Number:	2748522-33-8	
Alternate CAS Number:	133865-89-1 (non-labelled)	
Molecular Weight:	306.37	
Molecular Formula:	C ₁₇ H ₁₅ D ₄ FN ₂ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	2579-072A3	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO	

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%	98.7%
Impurity (HPLC)	RT 2.96, 1.02%; RT 7.17, 0.14%	
Purity (Chiral HPLC)	Not less than 98.0%	99.8%
Isotopic Enrichment	Not less than 98.0%	98.8%
Optical Rotation	[α] _D ^{22.0} (c=1.55, CHCl ₃): +3.9°	[α] _D ^{22.0} (c=0.42, CHCl ₃): +6.0°
Residual Solvents (NMR)	0.1% ethyl acetate	
Assay (qNMR)	Not less than 90.0%	96.0%
Recommendation:	Release.	

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

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