

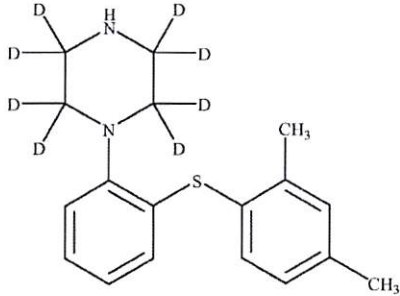


Certificate of Analysis



Certificate No.: 20240930024-2

Date: September 30, 2024

Retest date: September 30, 2027

Compound Name:	Vortioxetine-d₈	
Synonyms:	1-(2-((2,4-dimethylphenyl)thio)phenyl)piperazine-2,2,3,3,5,5,6,6-d ₈	
TLC Catalogue Number:	V-043026	
CAS Number:	2140316-62-5	
Alternate CAS Number:	508233-74-7 (non-labelled)	
Molecular Weight:	306.50	
Molecular Formula:	C ₁₈ H ₁₄ D ₈ N ₂ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	1898-087A6	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO	

Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.7%
Impurity (HPLC)	N/A	
Isotopic Enrichment	Not less than 98.0%	98.6%
Residual Solvents (NMR)	0.4% acetonitrile	
Assay (qNMR)	Not less than 90.0%	98.3%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		04/07/2025
Approved by:	Quality Assurance		04/07/2025

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