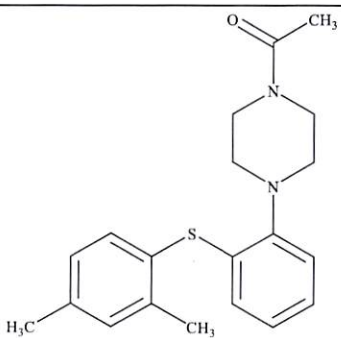


Certificate of Analysis



Certificate No.: 20260508010

Date: May 8, 2026

Retest date: May 7, 2029

Compound Name:	N-Acetyl Vortioxetine	
Synonyms:	1-(4-(2-((2,4-dimethylphenyl)thio)phenyl)piperazin-1-yl)ethan-1-one	
TLC Catalogue Number:	V-043041	
CAS Number:	1801352-86-2	
Alternate CAS Number:	N/A	
Molecular Weight:	340.49	
Molecular Formula:	C ₂₀ H ₂₄ N ₂ OS	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	4153-078A3	
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%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	1.0% tetrahydrofuran and 1.0% isopropyl ether	
Assay (%)	Not less than 90.0%	97.9%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/08/2026
Approved by:	Quality Assurance		05/08/2026

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