

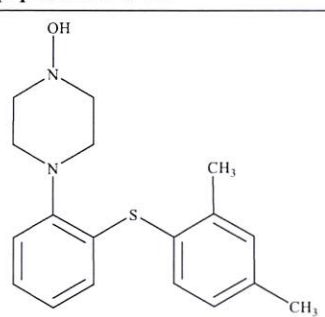
Certificate of Analysis

Certificate No.: **20240321006**



Date: March 21, 2024

Retest date: March 19, 2027

Compound Name: <i>N</i> -Hydroxy Vortioxetine	
Synonyms:	4-(2-((2,4-dimethylphenyl)thio)phenyl)piperazin-1-ol
TLC Catalogue Number:	V-043116
CAS Number:	1393644-67-1
Molecular Weight:	314.45
Molecular Formula:	C ₁₈ H ₂₂ N ₂ OS
Source:	TLC Pharmaceutical Standards
Source Lot No.:	6138-067A6
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol



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%	99.8%
Impurity (HPLC)	RT 4.14, 0.20%	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/22/2024
Approved by:	Quality Assurance		03/22/2024

Attachments: HPLC, IR, MS and NMR spectra.