

**Certificate of Analysis**Certificate No.: **20241010038**

Date: October 10, 2024

Retest date: October 8, 2027

Compound Name:	Vortioxetine	
Synonyms:	1-(2-((2,4-dimethylphenyl)thio)phenyl)piperazine	
TLC Catalogue Number:	V-043001	
CAS Number:	508233-74-7	
Molecular Weight:	298.45	
Molecular Formula:	C ₁₈ H ₂₂ N ₂ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	1744-018A1	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol	

Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.8%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Residue (TGA at 900 °C)	N/A	0.2%
Residual Solvents (NMR)	0.2% ethyl acetate	
Assay (%)	Not less than 90.0%	99.3%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		10/11/2024
Approved by:	Quality Assurance		10/11/2024

Attachments: HPLC, IR, MS, NMR and TGA spectra.