

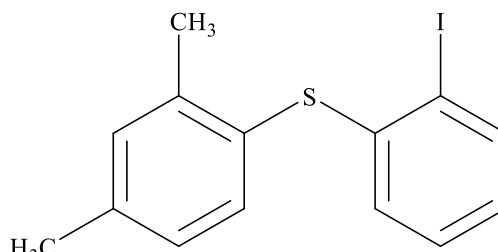
Certificate of Analysis

Certificate No.: 20210621011

Date: June 21, 2021

Retest date: June 15, 2024

Compound Name: Vortioxetine Impurity 44	
Synonyms:	(2,4-dimethylphenyl)(2-iodophenyl)sulfane
TLC Catalogue Number:	V-043052
CAS Number:	1817707-37-1
Molecular Weight:	340.22
Molecular Formula:	C ₁₄ H ₁₃ IS
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4442-075A5
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, Acetonitrile



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.8%
Impurity (HPLC)	RT 1.08, 0.11%	
Water Content (KF)	N/A	0.3%
Residual Solvents (NMR)	0.3% methanol	
Assay (%)	Not less than 90.0%	99.2%
Recommendation:	Release.	

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

Attachments: HPLC, IR, MS and NMR spectra.