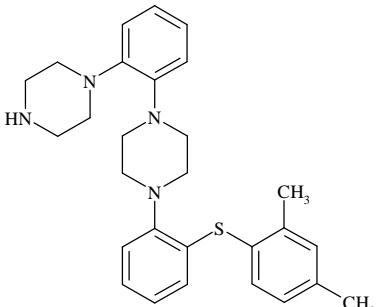


Certificate of Analysis

Certificate No.: 20150116A

Date: January 16, 2015

Retest date: January 2018

Compound Name: Vortioxetine Impurity 14		
CAS Number	1240670-85-2	
Molecular Weight:	458.67	
Molecular Formula:	C ₂₈ H ₃₄ N ₄ S	
Source:	TLC PharmaChem., Inc.	
Source Lot No.:	1806-037A3	
Storage Conditions:	Store at 2-8 °C.	

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 98.0%	99.6%
Recommendation:	Released.	

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

Attachments: HPLC, MS and NMR spectra.