

Registered Address: Chemicea Pharmaceuticals Pvt Ltd, Platinum Springs,  
Unit No- A- 205&206 Second floor, Plot No: G-6, G-20 to G 24, Taloja- MIDC, Opp. Dena Bank  
Navi Mumbai 410208, MH, INDIA. Email- [info@chemicea.com](mailto:info@chemicea.com) Mob- +91 9284897978

## CERTIFICATE OF ANALYSIS

Analysis Date:

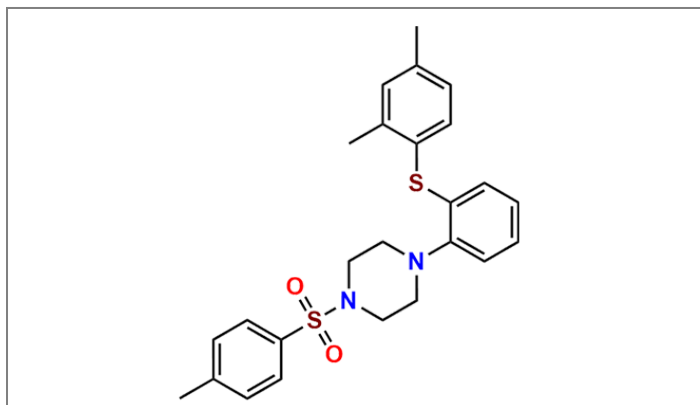
Re-test Date:

**Product Name: Vortioxetine Impurity 52**

### Identification:

Chemical Name: 1-(2-((2,4-Dimethylphenyl)thio)phenyl)-4-tosylpiperazine

Synonyms : NA  
CAS Number : 1643651-32-4  
CAT Number : CP-V36051  
Molecular Formula : C<sub>25</sub>H<sub>28</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>  
Molecular Weight : 452.63



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.