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## CERTIFICATE OF ANALYSIS

Analysis Date:

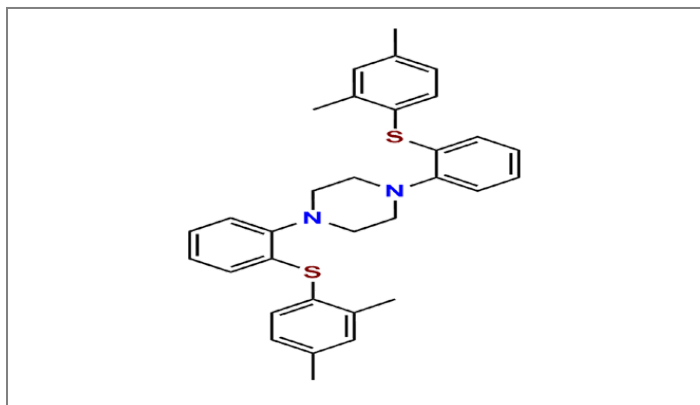
Re-test Date:

**Product Name: Vortioxetine Impurity 21**

### Identification:

Chemical Name: 1,4-bis(2-((2,4-dimethylphenyl)thio)phenyl)piperazine

Synonyms : NA  
CAS Number : 2243045-82-9  
CAT Number : CP-V36035  
Molecular Formula : C32H34N2S2  
Molecular Weight : 510.76



### 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.