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## CERTIFICATE OF ANALYSIS

Analysis Date:

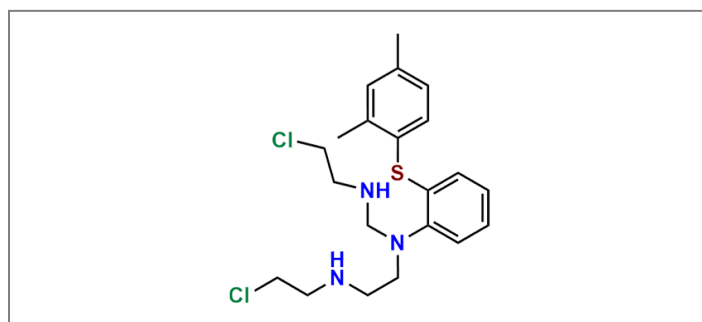
Re-test Date:

**Product Name: Vortioxetine Impurity 43**

### Identification:

Chemical Name: N1-(2-Chloroethyl)-N2-(((2-chloroethyl)amino)methyl)-N2-(2-((2,4-dimethylphenyl)thio)phenyl)ethane-1,2-diamine

Synonyms : NA  
CAS Number : NA  
CAT Number : CP-V36114  
Molecular Formula : C<sub>21</sub>H<sub>29</sub>Cl<sub>2</sub>N<sub>3</sub>S  
Molecular Weight : 426.4



### 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)	<sup>1</sup> HNMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Quality Control)

**Approved By**

Ms Rohini Gagare  
(Quality Assurance)

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