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CERTIFICATE OF ANALYSIS

Analysis Date:

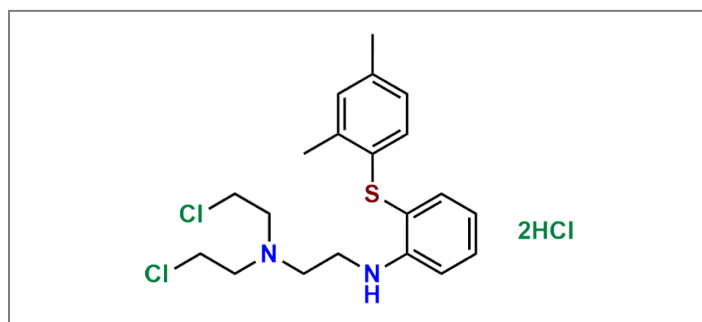
Re-test Date:

Product Name: Vortioxetine Impurity 69

Identification:

Chemical Name: N1,N1-bis(2-chloroethyl)-N2-(2-((2,4-dimethylphenyl)thio)phenyl)ethane-1,2-diamine hydrogen chloride (1:2)

Synonyms : NA
CAS Number : 3647-69-6
CAT Number : CP-V36083
Molecular Formula : C₂₀H₂₆Cl₂N₂S : 2(HCl)
Molecular Weight : 397.40 : 2(36.46)



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.