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## CERTIFICATE OF ANALYSIS

Analysis Date: Jun 2023

Re-test Date: May 2025

**Product Name: Quetiapine EP Impurity E**

### Identification:

Chemical Name: 1,2-bis[2-(4-Dibenzo [b,f] [1,4]thiazepin-11-yl-1-piperazinyl)ethoxy]ethane tetrahydrochloride

Synonyms : Quetiapine bis-Ether  
Tetrahydrochloride

CAS Number : 1371638-05-9

CAT Number : CP-Q1005

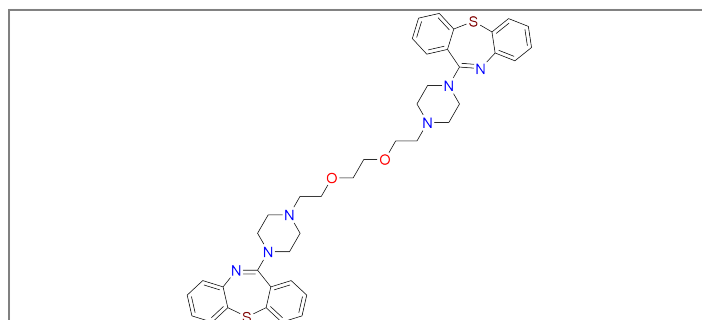
Molecular Formula : C40H44N6O2S2

Molecular Weight : 704.95

Batch Number : CP-QUE-E-0623

Storage Condition : Tightly closed, Inert atmosphere at -20° C

Shipping condition : At low temperature with dry ice and ice pack gel



### Analytical Information:

Sr. No.	Test	Result
1)	Description	Green Sticky Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	96.72%
5)	H1NMR	Confirm to structure
6)	13CNMR	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.