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## CERTIFICATE OF ANALYSIS

Analysis Date: Mar 2025

Re-test Date: Feb 2028

**Product Name: Quetiapine EP Impurity N**

### Identification:

Chemical Name: 2-[2-[4-[2-[2-[4-(Dibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl]ethoxy]ethyl]piperazin-1-yl]ethoxy]ethanol (as per EP)

Synonyms : Quetiapine Dipiperazine Diether  
Impurity

CAS Number : 1800291-86-4

CAT Number : CP-Q1014

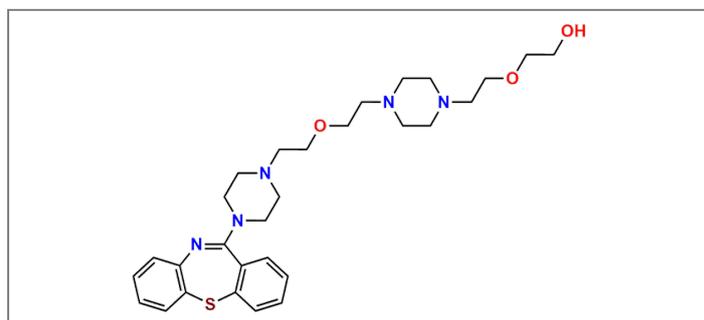
Molecular Formula : C<sub>29</sub>H<sub>41</sub>N<sub>5</sub>O<sub>3</sub>S

Molecular Weight : 539.74

Batch Number : CP-QUE-N-0325

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	Pale yellow liquid
2)	Solubility	Soluble in Methanol ,DMSO
3)	MASS By LCMS	Confirm to Structure
4)	Purity by HPLC	99.26%
5)	<sup>1</sup> HNMR	Confirm to Structure
6)	<sup>13</sup> CNMR	Confirm to Structure
7)	IR	Confirm to Structure
8)	Weight loss by TGA	4.169%
9)	Potency by TGA	-



**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.