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## CERTIFICATE OF ANALYSIS

Analysis Date: Jul 2024

Re-test Date: Jun 2027

**Product Name: Quetiapine EP Impurity D**

### Identification:

Chemical Name: 11,11'-(piperazine-1,4-diyl)bis(dibenzo[b,f][1,4]thiazepine)

Synonyms : Quetiapine Dimer Impurity ;  
Quetiapine  
Bis(dibenzothiazepinyl)  
piperazine Impurity

CAS Number : 945668-94-0

CAT Number : CP-Q1004

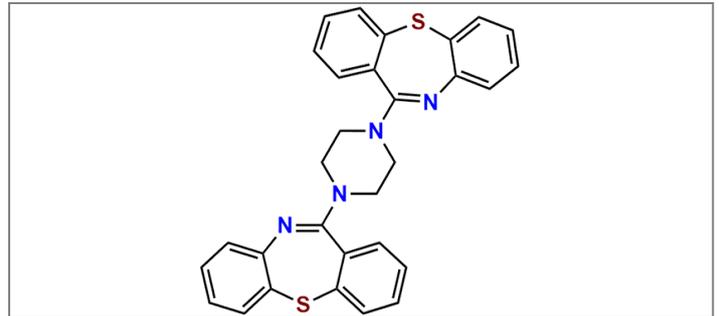
Molecular Formula : C<sub>30</sub>H<sub>24</sub>N<sub>4</sub>S<sub>2</sub>

Molecular Weight : 504.67

Batch Number : CP-QUE-D-0724

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White to Off White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.86%
5)	<sup>1</sup> HNMR	Confirm to structure
6)	Weight loss by TGA	0.016%
7)	Potency by TGA	99.84%



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.