

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001003-01)

Release Date: 08/02/2024

Re-test Date: 07/02/2027

## Quetiapine Related Compound B

### Identification

**Chemical Name :**  
11-(piperazin-1-yl)dibenzo[b,f][1,4]thiazepine dihydrochloride

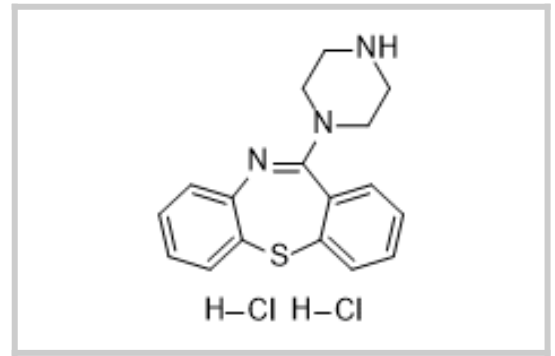
**Alt. Name** : Quetiapine EP Impurity B, N-Desalkyl  
Quetiapine

**CAT No.** : KMQ001003

**CAS No.** : 111974-74-4

**Molecular Formula** : C<sub>17</sub>H<sub>17</sub>N<sub>3</sub>S : 2(HCl)

**Molecular Weight** : 295.4 : 2(36.5)



### Analytical Information

**Batch No.** : QUE-RCB-073-070

**Solubility** : ACN

**Description** : Off White Solid

**Mass** : Confirm

**HPLC Purity** : 99.98 %

**IR** : Confirm

**Weight Loss By TGA** : 3.82 %

**<sup>1</sup>H NMR** : Confirm

**% Potency** : 96.16 %

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be shipped at room temperature

**% Potency** = [100 - 3.82(Weight Loss By TGA)] x [99.98(HPLC Purity)]/100 = 96.16 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		01/10/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		01/10/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA