

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC017008-01)

Release Date: 12/12/2024

Re-test Date: 11/12/2027

## Clozapine Impurity A

### Identification

**Chemical Name :**

8-Chloro-11-(piperazin-1-yl)-5H-dibenzo[b,e][1,4]diazepine (as per EP)

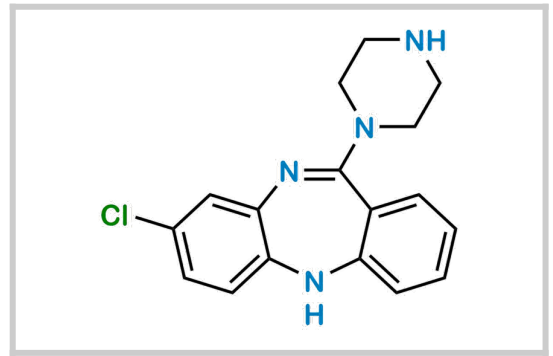
**Alt. Name** : Clozapine impurity A (USP) ;  
Clozapine EP Impurity C (as per EP)

**CAT No.** : KMC017008

**CAS No.** : 6104-71-8

**Molecular Formula** : C<sub>17</sub>H<sub>17</sub>ClN<sub>4</sub>

**Molecular Weight** : 312.8



### Analytical Information

**Batch No.** : C017008-091-082

**Description** : Yellow Solid

**HPLC Purity** : 99.23 %

**Weight Loss By TGA** : 3.93 %

**% Potency** : 95.33 %

**Solubility** : Acetonitrile

**Mass** : Confirm

**IR** : Confirm

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

**<sup>13</sup>C NMR** : Confirm

### 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 - 3.93(Weight Loss By TGA)] x [99.23(HPLC Purity)]/100 = 95.33 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		12/12/2024
Reviewed & Approved By	Quality Control	Jatin Patel		12/12/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA