# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001055-01)

**Release Date:** 27/03/2026 **Re-test Date:** 26/03/2029

## Quetiapine EP Impurity U

## Identification

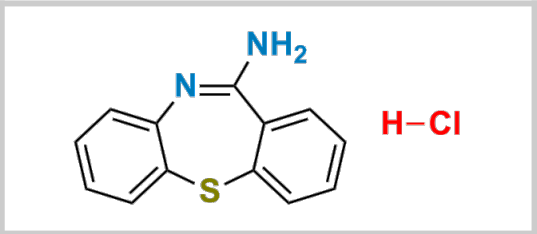
**Chemical Name** :
dibenzo[b,f][1,4]thiazepin-11-amine Hydrochloride

**CAT No.** : KMQ001055

**CAS No.** : 1176987-11-3 (HCl salt)

**Molecular Formula** : C13H10N2S : HCl

**Molecular Weight** : 226.3 : 36.5




## Analytical Information

| | | | |
|---|---|---|---|
| **Batch No.** | : Q001055-114-228 | **Solubility** | : ACN : Water |
| **Description** | : Green Solid | **Mass** | : Confirm |
| **HPLC Purity** | : 97.13 % | **IR** | : Confirm |
| **Weight Loss By TGA** | : 0.53 % | **1H NMR** | : Confirm |
| **% Potency** | : 96.62 % | **13C 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 - 0.53(Weight Loss By TGA)] x [97.13(HPLC Purity)]/100 = 96.62 %

**Recommendation** : Released

| | Department | Name | Signature | Date |
|---|---|---|---|---|
| **Prepared By** | Analytical | Jignesh Patel | | 27/03/2026 |
| **Reviewed & Approved By** | Quality Control | Jatin Patel | | 27/03/2026 |

**Attachments** : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA