CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001047-01)

Release Date: 21/07/2025 **Re-test Date:** 20/07/2028

Quetiapine Impurity N

Identification

Chemical Name:

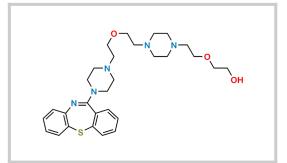
2-[2-[4-[2-[4-(Dibenzo[b,f][1,4]thiazepin-11-yl]piperazin-1-yl]ethoxy] ethyl] piperazin-1-yl]ethoxy] ethyl] piperazin-1-yl]ethoxy] ethyll piperazin-1-yl]ethyll piperazin-1-yl]ethoxy] ethyll ethyll piperazin-1-yl]ethyll ethyll et

Alt. Name : Quetiapine Dipiperazine Diether

Impurity

CAT No. : KMQ001047 **CAS No.** : 1800291-86-4 **Molecular Formula** : C29H41N5O3S

Molecular Weight : 539.7



Analytical Information

Batch No. : Q001047-102-135 **Solubility** : Acetonitrile **Description** : Light Yellow Thick Syrup : Confirm Mass **HPLC Purity** : 98.04 % IR : Confirm Weight Loss By TGA 1H NMR : Confirm : 2.46 % % Potency : 95.63 % **13C NMR** : Confirm

Additional Information

Long Term Storage : Store at Ambient temperature for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 2.46(Weight Loss By TGA)] x [98.04(HPLC Purity)]/100 = 95.63 %

Recommendation : Released

| | Department | Name | Signature | Date |
|------------------------|-----------------|---------------|-----------|------------|
| Prepared By | Analytical | Jignesh Patel | | 25/07/2025 |
| Reviewed & Approved By | Quality Control | Jatin Patel | | 25/07/2025 |

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