

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001052-01)

Release Date: 17/04/2026

Re-test Date: 16/04/2029

## Quetiapine EP Impurity S

### Identification

**Chemical Name :**

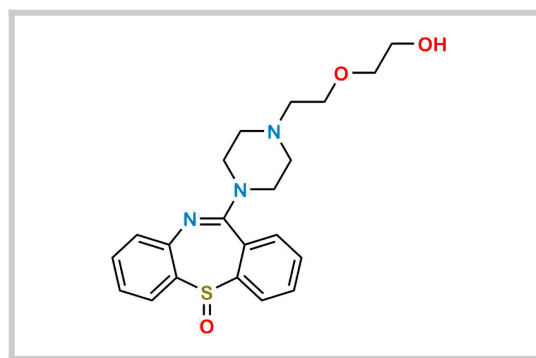
2-[2-[4-(5-Oxidodibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl]ethoxy]ethanol (as per EP)

CAT No. : KMQ001052

CAS No. : 329216-63-9

Molecular Formula : C<sub>21</sub>H<sub>25</sub>N<sub>3</sub>O<sub>3</sub>S

Molecular Weight : 399.5



### Analytical Information

Batch No. : Q001052-114-260

Description : Light Yellow Semi Solid

HPLC Purity : 97.23 %

Weight Loss By TGA : 0.41 %

% Potency : 96.83 %

Solubility : ACN : Water (1:1)

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 - 0.41(Weight Loss By TGA)] x [97.23(HPLC Purity)]/100 = 96.83 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		17/04/2026
Reviewed & Approved By	Quality Control	Jatin Patel		17/04/2026

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