

CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001054-01)

Release Date: 19/03/2026

Re-test Date: 18/03/2029

Quetiapine EP Impurity T

Identification

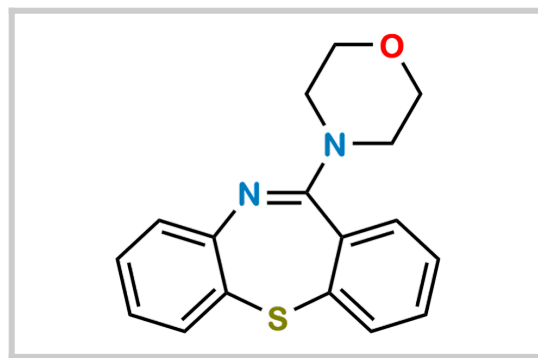
Chemical Name :
11-(morpholin-4-yl)dibenzo[b,f][1,4]thiazepine

CAT No. : KMQ001054

CAS No. : 5747-46-6

Molecular Formula : C₁₇H₁₆N₂O_S

Molecular Weight : 296.4



Analytical Information

Batch No. : Q001054-114-204

Description : Light Yellow Solid

HPLC Purity : 99.50 %

Weight Loss By TGA : 0.38 %

% Potency : 99.12 %

Solubility : Methanol

Mass : Confirm

IR : Confirm

¹H NMR : Confirm

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 = $[100 - 0.38(\text{Weight Loss By TGA})] \times [99.50(\text{HPLC Purity})]/100 = 99.12 \%$

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		19/03/2026
Reviewed & Approved By	Quality Control	Jatin Patel		19/03/2026

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