

CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001004-01)

Release Date: 08/02/2024

Re-test Date: 07/02/2027

Quetiapine Related Compound G

Identification

Chemical Name :
dibenzo[b,f][1,4]thiazepin-11(10H)-one

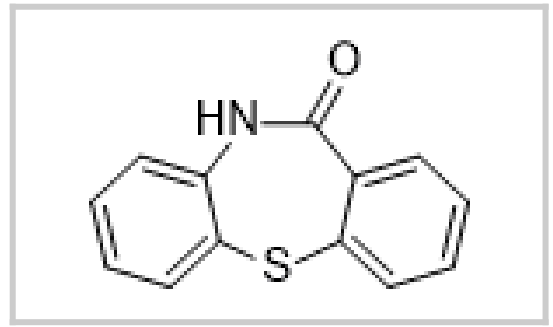
Alt. Name : Quetiapine EP Impurity G, Quetiapine Lactam, Quetiapine DBTO Metabolite

CAT No. : KMQ001004

CAS No. : 3159-07-7

Molecular Formula : C₁₃H₉NOS

Molecular Weight : 227.28



Analytical Information

Batch No. : QUE-RCG-073-071

Solubility : ACN

Description : Off White Crystalline Solid

Mass : Confirm

HPLC Purity : 98.44 %

IR : Confirm

Weight Loss By TGA : 0.01 %

¹H NMR : Confirm

% Potency : 98.43 %

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 = $[100 - 0.01(\text{Weight Loss By TGA})] \times [98.44(\text{HPLC Purity})]/100 = 98.43 \%$
-¹³CNMR added on 23.05.2024

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		27/05/2024
Reviewed & Approved By	Quality Control	Jatin Patel		27/05/2024

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