

CERTIFICATE OF ANALYSIS

(Certificate No. KMD013011-01)

Release Date: 15/04/2025

Re-test Date: 14/04/2028

Doxycycline EP Impurity F

Identification

Chemical Name :

(4S,4aR,5S,5aR,6R,12aS)-2-Acetyl-4-(dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-4a,5a,6,12a-tetrahydrotetracene-1,11(4H,5H)-dione

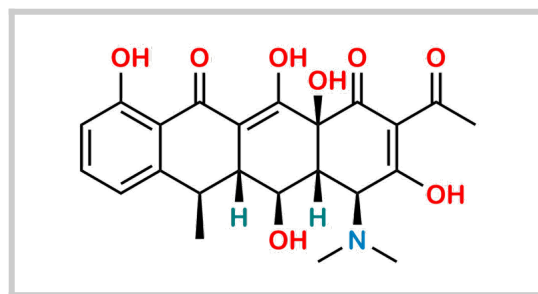
Alt. Name : 2-Acetyl-2-decarbamoylexocycline ;

CAT No. : KMD013011

CAS No. : 122861-53-4

Molecular Formula : C₂₃H₂₅N₀O₈

Molecular Weight : 443.5



Analytical Information

Batch No. : DOX-EP-F-030-065

Description : Light Brown Solid

HPLC Purity : 96.13 %

Weight Loss By TGA : 1.76 %

% Potency : 94.44 %

Solubility : Acetonitrile

Mass : Confirm

IR : Confirm

¹H 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 - 1.76(Weight Loss By TGA)] x [96.13(HPLC Purity)]/100 = 94.44 %

-Re-tested on 15.04.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/05/2025
Reviewed & Approved By	Quality Control	Jatin Patel		07/05/2025

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