

CERTIFICATE OF ANALYSIS

(Certificate No. KMD013008-01)

Release Date: 27/06/2025

Re-test Date: 26/06/2028

4-Epi Doxycycline

Identification

Chemical Name :

(4R,4aR,5S,5aR,6R,12aS)-4-(Dimethylamino)-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carboxamide

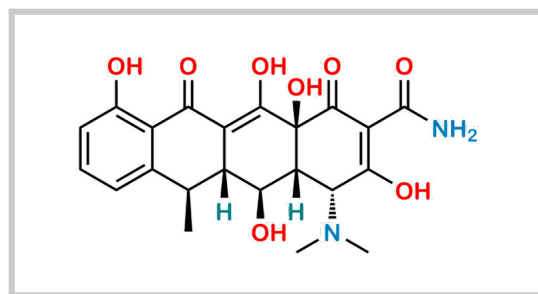
Alt. Name : 4-Epidoxycycline

CAT No. : KMD013008

CAS No. : 6543-77-7

Molecular Formula : C₂₂H₂₄N₂O₈

Molecular Weight : 444.4



Analytical Information

Batch No. : D013008-102-069

Description : Light Yellow Solid

HPLC Purity : 95.84 %

Weight Loss By TGA : 2.94 %

% Potency : 93.02 %

Solubility : Water : ACN (8:2)

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 - 2.94(Weight Loss By TGA)] x [95.84(HPLC Purity)]/100 = 93.02 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		27/06/2025
Reviewed & Approved By	Quality Control	Jatin Patel		27/06/2025

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