CERTIFICATE OF ANALYSIS

(Certificate No. KMD013011-02)

Release Date: 25/06/2025 **Re-test Date:** 24/06/2028

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

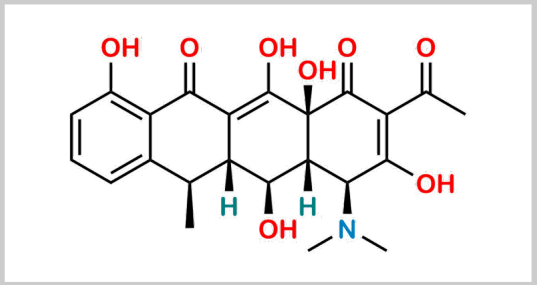
Alt. Name : 2-Acetyl-2-decarbamoyldoxycycline ;

CAT No. : KMD013011

CAS No. : 122861-53-4

Molecular Formula : C23H25NO8

Molecular Weight : 443.5



Analytical Information

Batch No.	: D013011-102-091	**Solubility**	: DMSO
Description	: Light Brown Solid	**Mass**	: Confirm
HPLC Purity	: 99.77 %	**IR**	: Confirm
Weight Loss By TGA	: 2.09 %	**1H NMR**	: Confirm
% Potency	: 97.68 %	**13C NMR**	: Confirm

Additional Information

Long Term Storage : Store at -20 degree in dark (Light Sensitive)

Shipping Condition : Product is stable to be shipped at room temperature

% Potency = [100 - 2.09(Weight Loss By TGA)] x [99.77(HPLC Purity)]/100 = 97.68 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		25/06/2025
Reviewed & Approved By	Quality Control	Jatin Patel		25/06/2025

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