

# CERTIFICATE OF ANALYSIS

(Certificate No. KMD013005-01)

Release Date: 25/06/2025

Re-test Date: 24/06/2028

## 6-Epi Doxycycline

### Identification

**Chemical Name :**

(4S,4aR,5S,5aR,6S,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

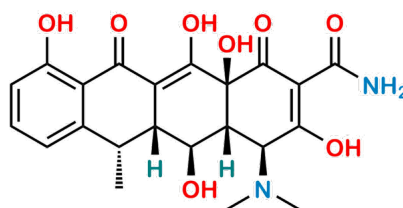
**Alt. Name** : Doxycycline USP Related Ccompound  
A ; 6-Epidoxycycline

**CAT No.** : KMD013005

**CAS No.** : 3219-99-6 ; 41411-66-9 (HCl Salt)

**Molecular Formula** : C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub>

**Molecular Weight** : 444.4



### Analytical Information

**Batch No.** : D013005-102-095

**Description** : Light Yellow Solid

**HPLC Purity** : 96.00 %

**Weight Loss By TGA** : 2.34 %

**% Potency** : 93.75 %

**Solubility** : Water

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

**<sup>13</sup>C 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 - 2.34(Weight Loss By TGA)] x [96.00(HPLC Purity)]/100 = 93.75 %

**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, <sup>1</sup>HNMR, <sup>13</sup>CNMR IR and TGA