

# CERTIFICATE OF ANALYSIS

(Certificate No. KMD013006-03)

Release Date: 18/04/2026

Re-test Date: 17/04/2029

## 6-Epi Doxycycline HCl

### 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-octahydrotricyclic-2-carboxamide hydrochloride

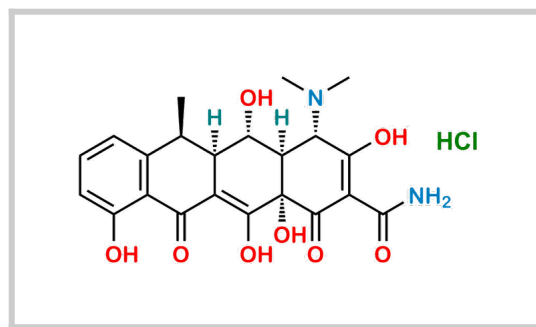
**Alt. Name** : Doxycycline USP Related Compound A ; 6-Epidoxycycline Hydrochloride

**CAT No.** : KMD013006

**CAS No.** : 41411-66-9

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

**Molecular Weight** : 444.4 : 36.5



### Analytical Information

**Batch No.** : D013006-114-269

**Description** : Light Brown Solid

**HPLC Purity** : 94.96 %

**Weight Loss By TGA** : 2.79 %

**% Potency** : 92.31 %

**Solubility** : Water

**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 - 2.79(Weight Loss By TGA)] x [94.96(HPLC Purity)]/100 = 92.31 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		18/04/2026
Reviewed & Approved By	Quality Control	Jatin Patel		18/04/2026

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