

# CERTIFICATE OF ANALYSIS

(Certificate No. KMD013001-02)

Release Date: 05/07/2024

Re-test Date: 04/07/2027

## N-Nitroso-N-Desmethyl Doxycycline

### Identification

**Chemical Name :**

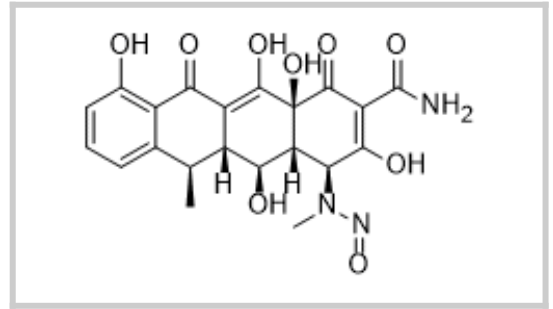
(4S,4aR,5S,5aR,6R,12aS)-3,5,10,12,12a-pentahydroxy-6-methyl-4-(methyl(nitroso)amino)-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydro-tetracene-2-carboxamide (Mixture of E/Z Isomer)

CAT No. : KMD013001

CAS No. : Not Available

Molecular Formula : C<sub>21</sub>H<sub>21</sub>N<sub>3</sub>O<sub>9</sub>

Molecular Weight : 459.41



### Analytical Information

Batch No. : DOX-DE-NO-073-277

Solubility : ACN

Description : Light Yellow Solid

Mass : Confirm

HPLC Purity : 96.96 %

IR : Confirm

Weight Loss By TGA : 2.41 %

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

% Potency : 94.62 %

### 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 - 2.41(Weight Loss By TGA)] x [96.96(HPLC Purity)]/100 = 94.62 %  
-Mixture of Isomer

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		05/07/2024
Reviewed & Approved By	Quality Control	Jatin Patel		05/07/2024

Attachments : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA