



CERTIFICATE OF ANALYSIS

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1. Identification

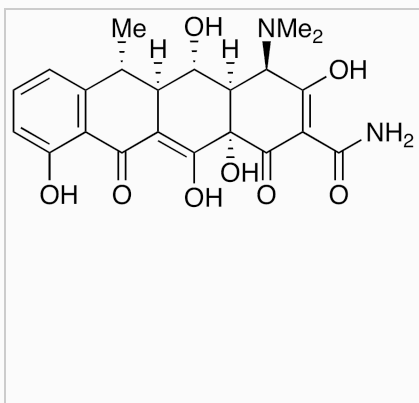
Catalogue Number: E585900

CAS Number: 6543-77-7

Product: 4-Epi Doxycycline (>70%)

Synonym: (4R,4aR,5S,5aR,6R,12aS)-4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide; 6-Deoxy-4-epioxytetracycline

Structure:



Molecular Formula:

C₂₂H₂₄N₂O₈

Molecular weight:

444.43

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly, Heated), Water (Slightly)

Lot Number: 7-ZCA-164-2

Purity: >70%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Dark Brown Solid	Brown to Dark Beige Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 53.70, %N: 5.88, %N: 5.53
MS	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Henry Tieu	Chanell Chu	7/9/2021	7/7/2025