



CERTIFICATE OF ANALYSIS

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1. Identification

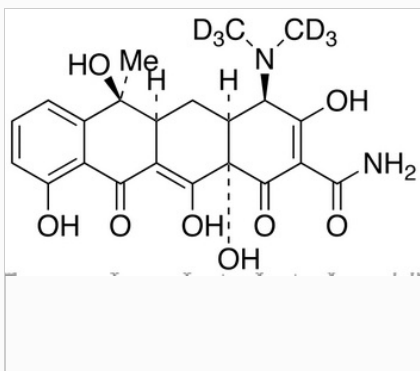
Catalogue Number: T291407

CAS Number: NA

Product: 4-epi-Tetracycline-d6 (approximately 50% pure, contains unidentified salts)

Synonym: (4R,4aS,5aS,6S,12aS)-4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide-d6; Quatrimycin-d6; [4R-(4a,4aβ,5aβ,6a,12aβ)]-4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide-d6;

Structure:



Molecular Formula:

C₂₂H₁₈D₆N₂O₈

Molecular weight:

450.47

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 7-WJS-51-2

Purity: ~50%

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	Dark Yellow to Dark Beige Solid	Dark Brown Solid
NMR	Conforms to Structure	Conforms
Isotopic Purity	>95%	96.3%
Elemental Analysis	Conforms	%C: 43.65, %H: 4.78, %N: 5.34
Specific Rotation	Report Result	-208.7° (c = 0.1, Water)
MS	Conforms to Structure	Conforms

Additional Information:

Normalized Intensity: d0 = 0.54%, d1 = 1.76%, d2 = 0.53%, d3 = 0.24%, d4 = 0.95%, d5 = 5.56%, d6 = 90.42%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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
Nicole Yip	Toni Rantanen	Chanell Chu	3/16/2023	3/14/2027
				