



CERTIFICATE OF ANALYSIS

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1. Identification

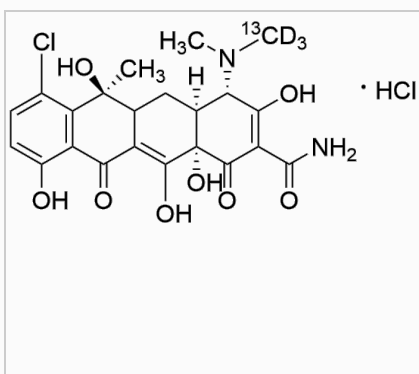
Catalogue Number: C426504

CAS Number: NA

Product: Chlortetracycline-13C-d3
Hydrochloride (Technical Grade)

Synonym: (4S,4aS,5aS,6S,12aS)-7-Chloro-4-(dimethylamino-d6)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide-13C-d3 Hydrochloride; 7-Chlorotetracycline-13C-d3 Hydrochloride; 7-Chlorotetracycline-13C-d3 Monohydrochloride; Aureomycin-13C-d3 Hydrochloride; Biomycin-13C-d3 Hydrochloride; Chlortetracycline-13C-d3 Hydrochloride; Fermycin-13C-d3 Soluble; Isphamycin-13C-d3;

Structure:



Molecular Formula:

$C_{21}^{13}CH_{20}D_3ClN_2O_8 \cdot HCl$

Molecular weight:

519.35

Source of Product:

Synthetic

Solubility:

DMSO (Very Slightly),
Methanol (Slightly)

Lot Number: 10-WJS-103-1

Purity: Technical Grade

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 Yellow Solid	Yellow to Dark Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	97.7%

Additional Information:

Normalized Intensity: d0 = 0.48%, d1 = 2.41%, d2 = 0.00%, d3 = 0.00%, d4 = 97.11%

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
Meenakshi Sharma	Toni Rantanen	Chanell Chu	11/29/2023	11/27/2027
				