CERTIFICATE OF ANALYSIS

1. Identification

Catalogue Number
C426504

Lot Number
15-WJS-131-1

Structure

Product Name
Chlortetracycline-13C-d3 Hydrochloride (Technical Grade)
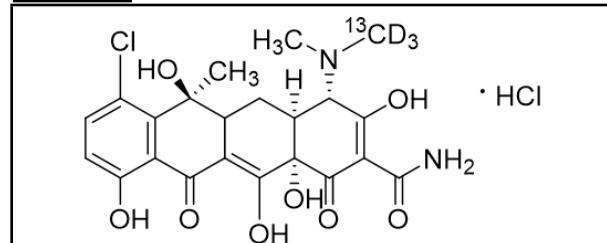
Synonyms
(4S,4aS,5aS,6S,12aS)-7-Chloro-4-(dimethylamino-d6)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide-13C-d3 Hydrochloride; 7-Chlorotetracycline-13C-d3 Hydrochloride; 7-Chlorotetracycline-13C-d3 Monohydrochloride; Aureomycin-13C-d3 Hydrochloride; Biomycin-13C-d3 Hydrochloride; Chlortetracycline-13C-d3 Hydrochloride; Chlortetracycline-13C-d3

CAS Number
N/A

Solubility
DMSO (Very Slightly), Methanol (Slightly)

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

Molecular Formula
$C_{21}{}^{13}CH20D_3ClN_2O_8.HCl$

Source of Product
Synthetic

Long Term Storage Conditions
-20°C

Molecular Weight
519.35

Purity
Technical Grade

2. Warnings

Not Determined

3. Analytical Information

Tests	Specifications	Results
Appearance	Pale Yellow to Dark Yellow Solid	Pale Yellow to Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	>99.9%

Additional Information

Normalized Intensity: d_0 = 0.00%, d_1 = 0.00%, d_2 = 0.00%, d_3 = 0.00%, d_4 = 100.00%

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
[signature]	*[signature]*	*Sadaf Samadi*	6/4/2024	6/2/2028
Meenakshi Sharma	Toni Rantanen	Sadaf Samadi		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		