

## 1. Identification

### Catalogue Number

D561503

### Lot Number

4-WEN-3-2

### Product Name

Doxycycline-d3 Hyclate (Major)

### Synonyms

(4S,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 hydrochloride compd. with ethanol hydrate (2:2:1:1);

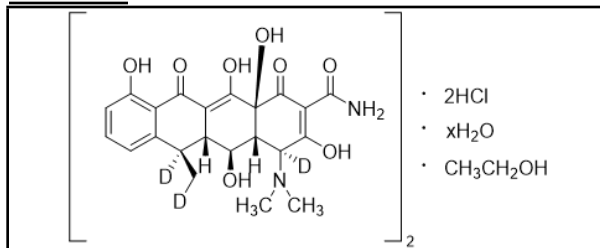
### CAS Number

N/A

### Solubility

Aqueous Acid (Slightly), DMSO (Slightly), Methanol (Slightly)

### Structure



### Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

### Molecular Formula

2(C<sub>22</sub>H<sub>21</sub>D<sub>3</sub>N<sub>2</sub>O<sub>8</sub>) • 2HCl • xH<sub>2</sub>O • C<sub>2</sub>H<sub>6</sub>O

### Source of Product

Synthetic

### Long Term Storage Conditions

-20°C

### Molecular Weight

2(447.45) + 2(36.46) + x(18.02) +

### Purity

93%

## 2. Warnings

Not Determined

## 3. Analytical Information

Tests	Specifications	Results
Appearance	Pale Yellow to Dark Yellow Solid	Pale Yellow to Light Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 52.60, %H: 5.73, %N: 5.22
HPLC Purity	Report Result	93.17% (350 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	97.0%

### Additional Information

Normalized Intensity: d<sub>0</sub> = 0.41%, d<sub>1</sub> = 1.59%, d<sub>2</sub> = 4.71%, d<sub>3</sub> = 93.30%

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
			11/9/2023	11/7/2030
Nicole Yip	Toni Rantanen	Christina Gouliaras		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		