

## CERTIFICATE OF ANALYSIS

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## 1. Identification

Catalogue T291405 CAS 23313-80-6 Number: Number:

> 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

Hydrochloride; Quatrimycin Hydrochloride;

 $[4R-(4a,4a\beta,5a\beta,6a,12a\beta)]-4-$ 

(dimethylamino)-1,4,4a,5,5a,6,11,12aoctahydro-3,6,10,12,12a-pentahydroxy-6-

methyl-1,11-dioxo-2-

naphthacenecarboxamide Hydrochloride; 4-

Epitetracycline Hydrochloride;

Structure:

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Product: 4-epi-Tetracycline Hydrochloride

Molecular Formula:

C22H24N2O8 • HCl

Molecular weight:

444.44+ (36.46) Source of Product:

N/A

Solubility:

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

Lot

3-HAB-2-1 Number:

**Purity:** 97%

**Shipping** 

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

Condition: -20°C

2. Warning

**Appearance** 

Warning 1: Warning 2: Warning 3:

## 3. Analytical Information

Specifications: Results: Tests:

> Yellow to Dark Yellow Solid Pale Yellow to Very Dark Yellow Solid

**NMR** Conforms to Structure Conforms

Elemental Analysis

Conforms %C: 53.76, %H: 5.40, %N: 5.73

**HPLC Purity** Report Result 99.43% (365 nm)

MS Conforms to Structure Conforms

Chloride Content Report Result 6.66% by Ion Chromatography Specific Rotation Report Result  $-339.3^{\circ}$  (c = 0.1, Methanol)

Water Content Report Result ~2.2% based on Elemental Analysis

**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 ± 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**Meenakshi Sharma

**Reviewed By**Toni Rantanen

C of A Approved By

1/17/2022

**Test Date** 

**Retest Date** 

Horme

History.

Chardel Chu

Chanell Chu

1/15/2026