

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

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

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,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-

methyl-1,11-dioxo-2-

naphthacenecarboxamide Hydrochloride; 4-

Epitetracycline Hydrochloride;

Structure:

HO Me NH<sub>2</sub> OH OH OH OH

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 6-ANF-129-1

Number: 6-ANF-129-1

Purity: 95%

**Shipping** This Product Is Stable To Be **Condition**: 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 Very Dark Yellow Solid Light Yellow Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 51.43, %H: 5.36, %N: 5.93

MS Conforms to Structure Conforms

Specific Rotation Report Result -281.4° (c = 0.1, Methanol)

Water Content Report Result ~3.2% 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  $\pm$  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

Nicole Yip

**Reviewed By** 

Toni Rantanen

C of A Approved By Chanell Chu

**Test Date** 

12/9/2021

**Retest Date** 

12/7/2025



400

Sandl Gu