

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

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-(4α,4aβ,5aβ,6α,12aβ)]-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:

Product: 4-epi-Tetracycline Hydrochloride

Molecular Formula:

C22H24N2O8 • HCl

Molecular weight:

444.44+ (36.46)

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol

(Very Slightly)

Lot 711909268-1-1

Number: /11909208-1-1

Purity: 97%

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 Very Dark Yellow Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 52.91, %H: 5.62, %N: 5.78

HPLC Purity Report Result 97.03% (260 nm)

MS Conforms to Structure Conforms
Chloride Content Report Result 7.1%

Specific Rotation Report Result -319.4° (c = 0.1, Methanol)

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
Henry Tieu

Reviewed By

Toni Rantanen

C of A Approved By

Chanell Chu 11/29/2023

Test Date

Retest Date

Charell Ch

11/27/2027