



CERTIFICATE OF ANALYSIS

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1. Identification

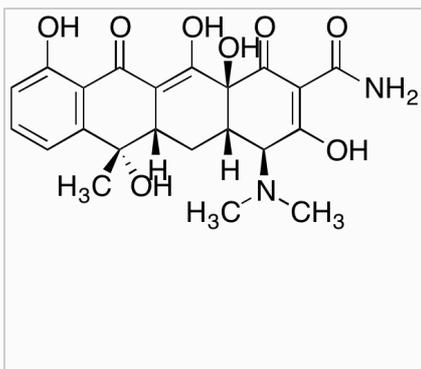
Catalogue Number: T291413

CAS Number: 60-54-8

Product: Tetracycline

Synonym: (4S,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; (-)-Tetracycline; Abramycin; Achromycin; Achromycin (naphthacene derivative); Acromicina; Actisite; Agromicina; Akne-Pyodron; Akne-Pyodron Kur; Ambramicina; Ambramycin; Apo-Tetra; Arcanacycline; Bio-Tetra; Biocycline; Britacidina; Calociclina; Cidibion; Cyclomycin; Cytome; Deschlorobiomycin; Dispatetrin; Economycin; Enterocycline; Florocycline; Gammatet

Structure:



Molecular Formula:

C₂₂H₂₄N₂O₈

Molecular weight:

444.44

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 2023-QIU-354

Purity: 95%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|----------------------------------|----------------------------------|
| Appearance | Yellow to Very Dark Yellow Solid | Yellow to Very Dark Yellow Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 57.12, %H: 5.84, %N: 6.03 |
| HPLC Purity | Report Result | 93.88% (275 nm) |
| MS | Conforms to Structure | Conforms |
| Specific Rotation | Report Result | -236.8° (c = 0.3, 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 ± 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**

Chanell Chu



Test Date

11/10/2023

Retest Date

11/8/2027