

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-03-20 10:32:01
Date of Next Testing: 2028-03-19 10:32:01
Product Name: **Tetracycline hydrochloride**
CAS Number: 64-75-5
Specifications & Purity: PharmPure™, USP
Lot #: C2617431
SKU #: **T105493**
Version: **1**
Analysis #: **654072**
Storage Temperature: Protected from light, Store at -20°C, Argon charged

| Parameter | Limit Values | Result |
|--|---------------------------|---------------------------|
| PH (1 %; Water) | 1.8-2.8 | 2.38000 |
| Loss on drying | 0-2 (%) | 0.44226 % |
| Heavy metals | 0-0.005 (%) | 0.00000 % |
| Limit of 4-epianhydrotetracycline | ≤2 (%) | 0.00000 % |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$ | -255--240 (°) | -254.15000 ° |
| Assay | ≥ 900 (μg/mg) | 985.00000 μg/mg |
| Potency (mcg/mg) | ≥900 | 985.00000 |
| Appearance (T105493) | yellow powder or crystals | yellow powder or crystals |
| Solubility in H ₂ O , Yellow to Yellow-Orange, Clear, 50 mg/ml | pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager