

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2025-06-26 14:14:07

Date of Next Testing: 2027-06-26 14:14:07

Product Name: **Tetracycline hydrochloride**

CAS Number: 64-75-5

Specifications & Purity: PharmPure™, USP

Lot #: F2523072

SKU #: **T105493**

Version: **1**

Analysis #: **534503**

Storage Temperature: Protected from light,Store at -20°C,Argon charged

| Parameter                                                               | Limit Values              | Result                    |
|-------------------------------------------------------------------------|---------------------------|---------------------------|
| Sulfate Ash                                                             | 0-0.5 (%)                 | 0.32000 %                 |
| PH (1 %; Water)                                                         | 2-3                       | 2.99000                   |
| Hydrochloric acid 4 - sent to dehydration tetracycline                  | 0-2 (%)                   | 1.99000 %                 |
| Potency (mcg/mg)                                                        | ≥900                      | 1199.00000                |
| Loss on drying                                                          | 0-2 (%)                   | 0.33800 %                 |
| Specific Rotation[a] <sub>20</sub> /D(c=0.5 in 0.1mol/L HCl)            | -255--240 (°)             | -254.00000 °              |
| Purity(HPLC)                                                            | 95-100 (%)                | 98.10000 %                |
| Appearance (T105493)                                                    | yellow powder or crystals | yellow powder or crystals |
| Proton NMR spectrum                                                     | Conforms to Structure     | Conforms to Structure     |
| Solubility in H <sub>2</sub> O , Yellow to Yellow-Orange,Clear,50 mg/ml | pass                      | Pass                      |



John Su  
QA & QC Manager