

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-10 17:00:16  
 Date of Next Testing: 2029-09-09 17:00:16  
 Product Name: **Tetracycline hydrochloride**  
 CAS Number: 64-75-5  
 Specifications & Purity:  $\geq 96\%$   
 Lot #: I2508683  
 SKU #: **T140622**  
 Version: **0**  
 Analysis #: **564042**  
 Storage Temperature: Protected from light, Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter                                                                                          | Limit Values                                             | Result                                                   |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Purity(HPLC)                                                                                       | 96-100 (%)                                               | 97.25700 %                                               |
| Purity(Nonaqueous Titration)                                                                       | 95.5-104.5 (%)                                           | 96.50000 %                                               |
| Loss on drying                                                                                     | 0-2 (%)                                                  | 0.01569 %                                                |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L} -255--240 (^{\circ})$<br>HCl) |                                                          | -254.84000 $^{\circ}$                                    |
| Appearance (T140622)                                                                               | Light yellow to Amber to Dark green<br>powder to crystal | Light yellow to Amber to Dark green<br>powder to crystal |
| Proton NMR spectrum                                                                                | Conforms to Structure                                    | Conforms to Structure                                    |
| Solubility in H <sub>2</sub> O , Yellow to Yellow-<br>Orange,Clear,50 mg/ml                        | pass                                                     | Pass                                                     |



John Su  
QA & QC Manager