

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-14 13:52:55  
Date of Next Testing: 2027-10-14 13:52:55  
Product Name: **Tetracycline hydrochloride**  
CAS Number: 64-75-5  
Specifications & Purity: PharmPure™, USP  
Lot #: J2513065  
SKU #: **T105493**  
Version: **1**  
Analysis #: **364258**  
Storage Temperature: Protected from light, Store at -20°C, Argon charged

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.02500 %
PH (1 %; Water)	2-3	2.50000
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	0.10000 %
Potency (mcg/mg)	≥900	900.00000
Loss on drying	0-2 (%)	1.09479 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$	-255--240 (°)	-254.78400 °
Purity(HPLC)	95-100 (%)	99.69500 %
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