

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-10 10:42:48  
 Date of Next Testing: 2026-04-10 10:42:48  
 Product Name: **Tetracycline hydrochloride**  
 CAS Number: 64-75-5  
 Specifications & Purity: USP grade  
 Lot #: F2224235  
 SKU #: **T105493**  
**Analysis:** **340615**  
 Storage Temperature: Protected from light, Store at -20°C

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.32 %
PH (1 %; Water)	2-3	2.99
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	1.99 %
Potency (mcg/mg)	≥900	1199.00
Loss on drying	0-2 (%)	0.34 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$	-255--240 (°)	-254.00 °
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