

## Certificate of Analysis

Date of Testing: 2024-06-04 13:42:20  
Date of Next Testing: 2026-06-04 13:42:20  
Product Name: **Tetracycline hydrochloride**  
CAS Number: 64-75-5  
Specifications & Purity: USP grade  
Lot #: F2403240  
SKU #: **T105493**  
Version: **0**  
Analysis #: **364258**  
Storage Temperature: Protected from light, Store at -20°C

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.03%
PH (1 %; Water)	2-3	2.50
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	0.10%
Potency (mcg/mg)	≥900	900.00
Loss on drying	0-2 (%)	1.09%
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$	-255--240 (°)	-254.78 °
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