

## Certificate of Analysis

Date of Testing: 2022-06-29 10:45:05  
Date of Next Testing: 2026-06-28 10:45:05  
Product Name: **Tetracycline hydrochloride**  
CAS Number: 64-75-5  
Specifications & Purity: 96%  
Lot #: F2224239  
SKU #: **T140622**  
**Analysis:** **093064**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	96-100 (%)	98.13300%
Purity(Nonaqueous Titration)	95.5-104.5 (%)	101.50%
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 (°)	-254.58°
Appearance (T140622)	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