

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-17 10:31:02  
Date of Next Testing: 2027-02-16 10:31:02  
Product Name: **Tetracycline hydrochloride**  
CAS Number: 64-75-5  
Specifications & Purity: 96%  
Lot #: B2311950  
SKU #: **T140622**  
**Analysis:** **158748**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	96-100 (%)	98.22700%
Purity(Nonaqueous Titration)	95.5-104.5 (%)	101.85%
Loss on drying	0-2 (%)	0.09%
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$	-255--240 (°)	-248.15°
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