

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-04 14:12:01
Date of Next Testing: 2028-06-03 14:12:01
Product Name: **Tetracycline hydrochloride**
CAS Number: 64-75-5
Specifications & Purity: 96%
Lot #: F2403242
SKU #: **T140622**
Version: **0**
Analysis #: **359931**
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	96-100 (%)	99.69500 %
Purity(Nonaqueous Titration)	95.5-104.5 (%)	102.63 %
Loss on drying	0-2 (%)	1.09 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1 \text{ mol/L } -255 \text{--} -240 \text{ } ^\circ)$ HCl)		-254.78 °
Appearance (T140622)	Light yellow to Amber to Dark green powder to crystal	Light yellow to Amber to Dark green powder to crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Yellow to Yellow- Orange, Clear, 50 mg/ml	pass	Pass



John Su
QA & QC Manager