

Certificate of Analysis

Date of Testing: 2022-03-14 16:32:22
Date of Next Testing: 2026-03-13 16:32:22
Product Name: **Tetracycline hydrochloride**
CAS Number: 64-75-5
Specifications & Purity: 96%
Lot #: C2211210
SKU #: **T140622**
Analysis: **012723**
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	96-100 (%)	97.61600%
Purity(Nonaqueous Titration)	95.5-104.5 (%)	102.20%
Loss on drying	0-2 (%)	0.46%
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.1\text{mol/L HCl})$	-255--240 (°)	-250.76°
Appearance (T140622)	yellow powder or crystals	yellow powder or crystals
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