

Certificate of Analysis

Date of Testing: 2023-06-27 15:52:52
Date of Next Testing: 2025-06-26 15:52:52
Product Name: **Tetracycline hydrochloride**
CAS Number: 64-75-5
Specifications & Purity: USP grade
Lot #: F2326197
SKU #: **T105493**
Analysis: 245115
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.35 %
PH (1 %; Water)	2-3	2.50
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	1.58 %
Potency (mcg/mg)	≥900	1000.50
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 °
Purity(HPLC)	95-100 (%)	98.13300 %
Appearance (T105493)	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