

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-02-23 14:33:31
Date of Next Testing:	2025-02-22 14:33:31
Product Name:	<b>Tetracycline hydrochloride</b>
CAS Number:	64-75-5
Specifications & Purity:	USP grade
Lot #:	B2315400
SKU #	<b>T105493</b>
<b>Analysis:</b>	<b>191131</b>
Storage Temperature:	Store at -20°C

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.01 %
PH (1 %; Water)	2-3	2.50
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	1.62 %
Potency (mcg/mg)	≥900	950.00
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 (%)	96.97100 %
Appearance (T105493)	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