

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-08 17:34:14  
Date of Next Testing: 2025-05-07 17:34:14  
Product Name: **Tetracycline hydrochloride**  
CAS Number: 64-75-5  
Specifications & Purity: USP grade  
Lot #: E2306062  
SKU #: **T105493**  
**Analysis: 107480**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Sulfate Ash	0-0.5 (%)	0.32 %
PH (1 %; Water)	2-3	2.99
Hydrochloric acid 4 - sent to dehydration tetracycline	0-2 (%)	2.00 %
Potency (mcg/mg)	≥900	1200.00
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 (%)	98.13300 %
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