

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-02-06 19:48:48  
Date of Next Testing: 2029-02-05 19:48:48  
Product Name: **Chlortetracycline hydrochloride**  
CAS Number: 64-72-2  
Specifications & Purity:  $\geq 91\%$  dry basis(HPLC)  
Lot #: C2325366  
SKU #: **C433236**  
Version: **1**  
Analysis #: **649400**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Related Substances((HPLC)-4-Epichlortetracycline)	$\leq 4$ (%)	2.24800 %
Related Substances((HPLC)-Tetracycline HCl)	$\leq 8.0$ (%)	5.52800 %
Related Substances((HPLC)-Other impurity)	$\leq 1.5$ (%)	0.99800 %
Assay (dry basis)	$\geq 91.0$ (%)	96.41 %
Loss on drying	0-1 (%)	0.82 %
Specific Rotation $[\alpha]_{25}^D(c=0.5, \text{H}_2\text{O})$	-250--235 ( $^{\circ}$ )	-247.37000 $^{\circ}$
pH	2.3-3.3	2.53
UV Absorbance 460nm	$\leq 0.40$	0.24480
Appearance(C433236)	Yellow to Yellow-Brown Powder or Crystals	Yellow to Yellow-Brown Powder or Crystals
Infrared spectrum	conforms to structure	Conforms to Structure



John Su  
QA & QC Manager