

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-11-14 13:43:49
Date of Next Testing:	2027-11-14 13:43:49
Product Name:	<b>Chlortetracycline hydrochloride</b>
CAS Number:	64-72-2
Specifications & Purity:	≥91% dry basis(HPLC)
Lot #:	K2408129
SKU #	<b>C433236</b>
Version	<b>1</b>
Analysis #:	<b>193843</b>
Storage Temperature:	Store at -20°C

Parameter	Limit Values	Result
Assay (dry basis)	≥ 91.0 (%)	96.41 %
Loss on drying	0-1 (%)	0.82 %
Specific Rotation [α] <sub>25</sub> /D(c=0.5,H <sub>2</sub> O)	-250~-235 (°)	-247.37200 °
PH	2.3-3.3	2.53
UV Absorbance 460nm	≤0.40	0.24500
Related Substances((HPLC)-4-Epichlortetracycline)	≤ 4 (%)	2.25000 %
Related Substances((HPLC)-Tetracycline HCl)	≤8.0 (%)	5.53000 %
Related Substances((HPLC)-Other impurity)	≤1.5 (%)	1.00000 %
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