

## Certificate of Analysis

Date of Testing: 2024-11-15 09:54:20  
Date of Next Testing: 2028-11-14 09:54:20  
Product Name: **Doxorubicin hydrochloride**  
CAS Number: 25316-40-9  
Specifications & Purity:  $\geq 97\%$   
Lot #: K2406149  
SKU #: **D396221**  
Version: **1**  
Analysis #: **437399**  
Storage Temperature: Protected from light, Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.73400 %
Specific Rotation $[\alpha]_{20}^D(c=0.1 \text{ in MeOH})$	240-270 ( $^{\circ}$ )	269.80 $^{\circ}$
Appearance(D396221)	Orange to Red-Brown Powder or solid	Orange to Red-Brown Powder or solid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager