

## Certificate of Analysis

Date of Testing: 2024-07-11 10:33:45  
Date of Next Testing: 2028-07-10 10:33:45  
Product Name: **Doxorubicin hydrochloride**  
CAS Number: 25316-40-9  
Specifications & Purity: 98%  
Lot #: G2404333  
SKU #: **D107159**  
Version: **0**  
Analysis #: **369846**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer(in 2-Methoxyethanol)	0-3 (%)	0.43%
Purity(HPLC)	98-100 (%)	98.02000%
Specific Rotation [a] <sub>D</sub> 20/D(c=0.1 in MeOH)	240-270 (°)	269.89°
Appearance (D107159)	Orange to Red-Brown Powder	Orange to Red-Brown Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Orange to Red, Clear, 50 mg/mL	pass	Pass



John Su  
QA & QC Manager