

## Certificate of Analysis

Date of Testing: 2022-02-09 14:43:46  
Date of Next Testing: 2026-02-08 14:43:46  
Product Name: **Doxorubicin hydrochloride**  
CAS Number: 25316-40-9  
Specifications & Purity: 98%  
Lot #: B2207336  
SKU #: **D107159**  
**Analysis:** **058957**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer(in 2-Methoxyethanol)	0-3 (%)	1.17 %
Specific Rotation [α] <sub>20</sub> /D(c=0.1 in MeOH)	240-270 (°)	260.15 °
Purity(HPLC)	98-100 (%)	98.74560 %
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