

## Certificate of Analysis

Date of Testing: 2023-08-04 13:23:44  
Date of Next Testing: 2025-08-03 13:23:44  
Product Name: **Mitoxantrone dihydrochloride**  
CAS Number: 70476-82-3  
Specifications & Purity:  $\geq 97\%$   
Lot #: F2404082  
SKU #: **M129460**  
Version: **0**  
Analysis #: **260000**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Carbon by Elemental Analysis	50.4-51.3 (%)	50.65 %
Nitrogen by Elemental Analysis	10.5-11 (%)	10.96 %
Purity (Argentometric Titration)	96.5-103.5 (%)	101.60 %
Water by Karl Fischer	0-6 (%)	2.62 %
Purity(HPLC)	97-100 (%)	97.08800 %
Oxygen by Elemental Analysis	18.2-18.8 (%)	18.30 %
Appearance (M129460)	Blue to black powder or crystals	Blue to black powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Dark Blue(1 mg/ml)	pass	Pass



John Su  
QA & QC Manager