

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-20 14:07:03  
 Date of Next Testing: 2027-05-20 14:07:03  
 Product Name: **Mitoxantrone dihydrochloride**  
 CAS Number: 70476-82-3  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: E2514401  
 SKU #: **M129460**  
 Version: **2**  
 Analysis #: **501223**  
 Storage Temperature: Store at  $-20^{\circ}\text{C}$

| Parameter                               | Limit Values                     | Result                           |
|-----------------------------------------|----------------------------------|----------------------------------|
| Water by Karl Fischer                   | 0-6 (%)                          | 1.74380 %                        |
| Purity(HPLC)                            | 97-100 (%)                       | 98.02600 %                       |
| Purity (Argentmetric Titration)         | 96.5-103.5 (%)                   | 98.58000 %                       |
| Appearance (M129460)                    | Blue to black powder or crystals | Blue to black powder or crystals |
| Solubility in EtOH , Dark Blue(1 mg/ml) | pass                             | Pass                             |
| Proton NMR spectrum                     | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager