

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-13 08:48:53  
 Date of Next Testing: 2027-04-12 08:48:53  
 Product Name: **2,3-Dichloro-5-nitro-1,4-naphthoquinone**  
 CAS Number: 22360-86-7  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: D23061492  
 SKU #: **D155726**  
 Version: **1**  
 Analysis #: **202670**  
 Storage Temperature: Room temperature

| Parameter                | Limit Values                                       | Result                                             |
|--------------------------|----------------------------------------------------|----------------------------------------------------|
| Purity(HPLC area)        | 97-100 (%)                                         | 99.16400 %                                         |
| Purity( total nitrogen ) | 97-102.5 (%)                                       | 98.09000 %                                         |
| Appearance(D155726)      | Light Yellow to Yellow to Orange Powder to Crystal | Light Yellow to Yellow to Orange powder to crystal |
| NMR Spectrum 1H          | conforms to structure                              | Conforms to Structure                              |



John Su  
QA & QC Manager