

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-12 13:36:56  
 Date of Next Testing: 2027-07-11 13:36:56  
 Product Name: **1,1'-Bis(2,4-dinitrophenyl)-4,4'-bipyridinium Dichloride**  
 CAS Number: 41168-79-0  
 Specifications & Purity:  $\geq 97\%$ (HPLC)  
 Lot #: G2307064  
 SKU #: **B152162**  
 Version: **0**  
 Analysis #: **186229**  
 Storage Temperature: Store at 2-8°C

| Parameter                               | Limit Values                     | Result                           |
|-----------------------------------------|----------------------------------|----------------------------------|
| Purity(HPLC)                            | 97-100 (%)                       | 97.38500 %                       |
| Purity(Titration by AgNO <sub>3</sub> ) | 96.5-103.5 (%)                   | 97.45000 %                       |
| Appearance (B152162Color)               | Light yellow to Yellow to Orange | Light yellow to Yellow to Orange |
| Appearance (B152162Form)                | Powder to crystal                | Powder to crystal                |
| Proton NMR spectrum                     | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager