

## Certificate of Analysis

Date of Testing: 2023-07-22 15:59:46

Date of Next Testing: 2027-07-21 15:59:46

Product Name: **2,2'-Bipyridine-3,3'-dicarboxylic Acid**

CAS Number: 4433-01-6

Specifications & Purity: >98.0%

Lot #: G2318459

SKU #: **B152120**

Analysis: **244580**

| Parameter            | Limit Values                    | Result                          |
|----------------------|---------------------------------|---------------------------------|
| Purity(HPLC)         | 98-100 (%)                      | 99.77600%                       |
| Appearance (B152120) | White to Tan Powder or Crystals | White to Tan Powder or Crystals |
| Proton NMR spectrum  | Conforms to Structure           | Conforms to Structure           |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager