

## Certificate of Analysis

Date of Testing: 2025-05-19 16:45:59

Date of Next Testing: 2029-05-18 16:45:59

Product Name: **4,4'-Bipyridine**

CAS Number: 553-26-4

Specifications & Purity:  $\geq 98\%$

Lot #: E2516168

SKU #: **B105217**

Version: **1**

Analysis #: **510056**

Storage Temperature: Argon charged

| Parameter                               | Limit Values                                         | Result                                               |
|-----------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Purity(Titration by HClO <sub>4</sub> ) | 97.5-102.5 (%)                                       | 97.60 %                                              |
| Melting point                           | 111-114 (°C)                                         | 113.83000 °C                                         |
| Purity(GC)                              | 98-100 (%)                                           | 99.66 %                                              |
| Appearance (B105217)                    | white to tan to yellow powder,crystals and/or chunks | white to tan to yellow powder,crystals and/or chunks |
| Solubility in MeOH                      | almost transparency                                  | almost transparency                                  |
| Proton NMR spectrum                     | Conforms to Structure                                | Conforms to Structure                                |



John Su  
QA & QC Manager