

## Certificate of Analysis

|                          |   |
|--------------------------|---|
| Date of Testing:         | 2024-12-23 15:36:39   |
| Date of Next Testing:    | 2025-12-23 15:36:39   |
| Product Name:            | <b>Bis(2,2'-bipyridine)-(5-aminophenanthroline)ruthenium bis(hexafluorophosphate)</b> |
| CAS Number:              | 84537-86-0  |
| Specifications & Purity: | ≥96%  |
| Lot #:                   | C2406501  |
| SKU #                    | <b>B276537</b>  |
| Version                  | <b>2</b>  |
| <b>Analysis #:</b>       | <b>447117</b>   |
| Storage Temperature:     | Store at -20°C, Argon charged   |

| Parameter               | Limit Values   | Result   |
|-------------------------|--|--|
| Purity(HPLC)            | 96-100 (%)   | 99.29300 %   |
| Appearance(B276537)     | Orange to Red to Very Dark Red and Purple to Very Dark Purple Powder | Orange to Red to Very Dark Red and Purple to Very Dark Purple Powder |
| Proton NMR spectrum     | Conforms to Structure  | Conforms to Structure  |
| Phosphorus NMR spectrum | conforms to structure  | Conforms to Structure  |
| FNMR spectrum           | Conforms to structure  | Conforms to Structure  |
| ICP: Confirms           | Confirmed  | Confirmed  |
| Ruthenium Component     |  |  |



John Su  
QA & QC Manager