

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---|
| Date of Testing: | 2024-12-23 15:36:39 |
| Date of Next Testing: | 2025-12-23 15:36:39 |
| Product Name: | Bis(2,2'-bipyridine)-(5-aminophenanthroline)ruthenium bis(hexafluorophosphate) |
| CAS Number: | 84537-86-0 |
| Specifications & Purity: | ≥96% |
| Lot #: | C2406496 |
| SKU # | B276537 |
| Version | 2 |
| Analysis #: | 447117 |
| 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