

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-03 14:20:36

Date of Next Testing: 2029-04-02 14:20:36

Product Name: **(11bR)-2,6-Di-9-phenanthrenyl-4-hydroxy-4-oxide-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin**

CAS Number: 864943-22-6

Specifications & Purity: $\geq 98\%$, $\geq 99\%$ (ee)

Lot #: E2316327

SKU #: **B300911**

Version: **1**

Analysis #: **657041**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|------------------------|-----------------------|-----------------------|
| Enantiomeric Excess | 99-100 (%) | 99.52600 % |
| Purity(HPLC area) | 98-100 (%) | 99.26400 % |
| Phosphorus NMR Spectra | Conforms to Structure | Conforms to Structure |
| NMR Spectrum 1H | Conforms to structure | Conforms to Structure |



John Su
QA & QC Manager