

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-24 17:15:19

Date of Next Testing: 2026-05-23 17:15:19

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: $\geq 98\%, \geq 99\%(\text{ee})$

Lot #: E2316301

SKU #: **B300911**

Version: **1**

Analysis #: **202270**

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

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.26300 %
Enantiomeric Excess	99-100 (%)	99.10000 %
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager