

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-26 11:10:25
 Date of Next Testing: 2025-09-25 11:10:25
 Product Name: (11b5)-N-[(R)-1-Phenylethyl]-dinaphtho[2,1-d:1',2'-f]
 [1,3,2]dioxaphosphopin-4-amine
 CAS Number: 422509-53-3
 Specifications & Purity: ≥98%, ≥99%(ee)
 Lot #: I2320697
 SKU #: D385761
 Version: 3
 Analysis #: 259446
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(As C)	98-100 (%)	99.82900 %
Enantiomeric Excess	99-100 (%)	99.87800 %
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager