

Certificate of Analysis

Date of Testing: 2025-07-30 16:18:39
 Date of Next Testing: 2027-07-30 16:18:39
 Product Name: (11bS)-N-[(R)-1-Phenylethyl]-dinaphtho[2,1-d:1',2'-f]
 [1,3,2]dioxaphosphepin-4-amine
 CAS Number: 422509-53-3
 Specifications & Purity: ≥98%, ≥99%(ee)
 Lot #: I2320682
 SKU # D385761
 Version 3
 Analysis #: 546063
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Enantiomeric Excess	99-100 (%)	99.53500 %
Purity(As C)	98-100 (%)	99.70 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure



John Su
 QA & QC Manager