

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]dioxaphosphopin-4-amine

CAS Number: 422509-53-3

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

Lot #: I2320696

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