

Certificate of Analysis

Date of Testing: 2024-12-26 13:28:07

Date of Next Testing: 2027-12-26 13:28:07

Product Name: (11aS)-(-)-10,11,12,13-Tetrahydrodiindeno[7,1-de:1",7"-fg]
[1,3,2]dioxaphosphocin-5-bis[(R)-1-phenylethyl]amine

CAS Number: 500997-70-6

Specifications & Purity: ≥98%

Lot #: C2214055

SKU #: T282109

Version: 2

Analysis #: 446367

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Enantiomeric Excess	99-100 (%)	99.03000 %
Purity(HPLC)	98-100 (%)	98.17900 %
Specific rotation $[\alpha]_{20/D}(C=0.92g/100ml, CHCl_3)$	-33--29 (°)	-32.14000 °
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager