

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-31 13:54:34

Date of Next Testing: 2027-12-21 13:54:34

Product Name: (S)-(-)-2,2'-Bis(di-p-tolylphosphino)-1,1'-binaphthyl

CAS Number: 100165-88-6

Specifications & Purity: ≥98%

Lot #: L2522096

SKU #: S115619

Version: 0

Analysis #: 635007

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=0.4 in Pyridene)	-165--155 (°)	-163.87 °
Optical purity(HPLC)(ee)	99-100 (%)	99.02 %
Purity(HPLC)	98-100 (%)	98.76610 %
Appearance (S115619)	white to off-white powder or flakes	white to off-white powder or flakes
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager