

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-02-29 16:14:02

Date of Next Testing: 2027-02-28 16:14:02

Product Name: **(S)-(-)-7,7'-Bis[di(4-methylphenyl)phosphino]-2,2',3,3'-tetrahydro-1,1'-spirobiindene**

CAS Number: 817176-80-0

Specifications & Purity: 97%

Lot #: B2423107

SKU #: **S282118**

Analysis: **308072**

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

Parameter	Limit Values	Result
Purity(As C)	97-100 (%)	99.65 %
Optical purity(HPLC)(ee)	98-100 (%)	99.66 %
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager