

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-24 15:02:18

Date of Next Testing: 2025-11-23 15:02:18

Product Name: (R)-(-)-1-[(S)-2-(Diphenylphosphino)ferrocenyl]ethyl-di-3,5-xylylphosphine

CAS Number: 184095-69-0

Specifications & Purity:  $\geq 97\%$

Lot #: L2411290

SKU #: R138400

Version: 0

Analysis #: 293370

Storage Temperature: Room temperature

| Parameter              | Limit Values          | Result                |
|------------------------|-----------------------|-----------------------|
| Purity (NMR)           | 97-100 (%)            | 97.16000 %            |
| Optical purity(ee)     | 99-100 (%)            | 99.15000 %            |
| Phosphorus NMR Spectra | Conforms to Structure | Conforms to Structure |
| Proton NMR spectrum    | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager