

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-26 11:40:39

Date of Next Testing: 2026-05-25 11:40:39

Product Name: (S)-(-)-2,2''-Bis[di(3,5-xylyl)phosphino]-6,6''-dimethoxy-1,1''-biphenyl

CAS Number: 362634-22-8

Specifications & Purity:  $\geq 97\%$ ,  $\geq 99\%$ (ee)

Lot #: E2318569

SKU #: S281901

Version: 1

Analysis #: 206532

Storage Temperature: Store at 2-8°C

| Parameter               | Limit Values          | Result                |
|-------------------------|-----------------------|-----------------------|
| Purity(HPLC area)       | 97-100 (%)            | 97.51800 %            |
| Enantiomeric Excess     | 99-100 (%)            | 100.00000 %           |
| Phosphorus NMR spectrum | conforms to structure | Conforms to Structure |
| NMR Spectrum 1H         | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager