

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| Date of Testing:         | 2023-03-24 18:06:50                                                                                          |
| Date of Next Testing:    | 2026-03-23 18:06:50                                                                                          |
| Product Name:            | (2S,2'S,3S,3'S)-4,4'-bis(benzyloxy)-3,3'-di-tert-butyl-2,2',3,3'-tetrahydro-2,2'-bibenzo[d][1,3]oxaphosphole |
| CAS Number:              | 2169292-05-9                                                                                                 |
| Specifications & Purity: | ≥97%, ≥99%(ee)                                                                                               |
| Lot #:                   | C2317226                                                                                                     |
| SKU #                    | S489911                                                                                                      |
| Version                  | 1                                                                                                            |
| Analysis #:              | 163456                                                                                                       |
| Storage Temperature:     | Store at 2-8°C, Desiccated                                                                                   |

| Parameter           | Limit Values               | Result                     |
|---------------------|----------------------------|----------------------------|
| Purity(NMR)         | 97-100 (%)                 | 97.00000 %                 |
| Enantiomeric Excess | 99-100 (%)                 | 100.00000 %                |
| NMR Spectrum 1H     | Conforms to Structure      | Conforms to Structure      |
| Appearance(S489911) | White to pale yellow solid | white to pale yellow solid |



John Su  
QA & QC Manager