

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-28 16:11:48

Date of Next Testing: 2026-04-27 16:11:48

Product Name: (S)-3,3'-Bis(2,4,6-triisopropylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate

CAS Number: 874948-63-7

Specifications & Purity: ≥98%

Lot #: D23211358

SKU #: S464538

Version: 1

Analysis #: 201835

Storage Temperature: Room temperature, Argon charged

| Parameter           | Limit Values                            | Result                                  |
|---------------------|-----------------------------------------|-----------------------------------------|
| Purity(HPLC area)   | 98-100 (%)                              | 99.31600 %                              |
| Enantiomeric Excess | 99-100 (%)                              | 99.62000 %                              |
| Appearance(S464538) | White to Light yellow powder to crystal | White to Light yellow powder to crystal |
| NMR Spectrum 1H     | Conforms to structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager