

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-05 15:23:43  
 Date of Next Testing: 2025-07-04 15:23:43  
 Product Name: **(R)-SIPHOS-PE**  
 CAS Number: 500997-69-3  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: F2327888  
 SKU #: **T282108**  
 Version: **1**  
 Analysis #: **228424**  
 Storage Temperature: Protected from light, Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter                                                                    | Limit Values               | Result                |
|------------------------------------------------------------------------------|----------------------------|-----------------------|
| Specific Rotation $[\alpha]_{22}^{\text{D}}(\text{c}=1\% \text{ in CHCl}_3)$ | 303.1-370.5 ( $^{\circ}$ ) | 343.00500 $^{\circ}$  |
| Purity(HPLC area)                                                            | 98-100 (%)                 | 98.82000 %            |
| NMR Spectrum 1H                                                              | Conforms to Structure      | Conforms to Structure |
| Appearance(T282108)                                                          | White to Beige powder      | white to beige powder |



John Su  
QA & QC Manager