

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-05 13:58:39

Date of Next Testing: 2026-11-25 13:58:39

Product Name: **Dichloro(S)-(-)-2,2'-bis(diphenylphosphino)-1,1'-binaphthyl]palladium(II)**

CAS Number: 127593-28-6

Specifications & Purity:  $\geq 97\%$

Lot #: H1909151

SKU #: **D133001**

Version: **0**

Analysis #: **443665**

Storage Temperature: Argon charged

| Parameter  | Limit Values                          | Result                                |
|--|---------------------------------------|---------------------------------------|
| Specific Rotation [a] <sub>D</sub> 20/D(c=0.5 in CHCl <sub>3</sub> ) | -700--600 (°)                         | -620.00 °                             |
| Carbon by Elemental Analysis   | 63.7-68.4 (%)                         | 65.40%                                |
| Appearance (D133001)   | Yellow to Orange Powder and/or Chunks | Yellow to Orange Powder and/or Chunks |
| Proton NMR spectrum  | Conforms to Structure                 | Conforms to Structure                 |



John Su  
QA & QC Manager