

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-02 11:58:18  
 Date of Next Testing: 2027-11-01 11:58:18  
 Product Name: (1S,2S)-(-)-1,2-Diphenyl-1,2-ethanediamine  
 CAS Number: 29841-69-8  
 Specifications & Purity: ≥98%  
 Lot #: J2331126  
 SKU #: S115656  
 Version: 2  
 Analysis #: 225846  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                           | Limit Values           | Result                 |
|-----------------------------------------------------|------------------------|------------------------|
| Specific Rotation [α] <sub>20</sub> /D(c=1 in EtOH) | -106--98 (°)           | -102.77600 °           |
| Purity(Nonaqueous Titration)                        | 97.5-102.5 (%)         | 100.83200 %            |
| Melting point                                       | 81-85 (°C)             | 81.54000 °C            |
| Optical purity(ee)                                  | 98-100 (%)             | 99.62000 %             |
| Purity(HPLC)                                        | 98-100 (%)             | 98.63600 %             |
| Appearance (S115656)                                | White to Yellow Powder | White to Yellow Powder |
| Proton NMR spectrum                                 | Conforms to structure  | Conforms to Structure  |



John Su  
QA & QC Manager