

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-09 13:45:02  
 Date of Next Testing: 2027-04-08 13:45:02  
 Product Name: (1R,2R)-(+)-1,2-Diaminocyclohexane L-tartrate  
 CAS Number: 39961-95-0  
 Specifications & Purity: ≥98%  
 Lot #: D2301828  
 SKU #: D115662  
 Version: 0  
 Analysis #: 209596  
 Storage Temperature: Room temperature

| Parameter                                                         | Limit Values              | Result                    |
|-------------------------------------------------------------------|---------------------------|---------------------------|
| Carbon by Elemental Analysis                                      | 44-46.1 (%)               | 45.50000 %                |
| Specific Rotation [α] <sub>20</sub> /D(c=2.5 in H <sub>2</sub> O) | 10-13 (°)                 | 11.87400 °                |
| Purity(Neutralization titration)                                  | 98-100 (%)                | 98.10000 %                |
| Nitrogen by Elemental Analysis                                    | 9.9-10.9 (%)              | 10.54000 %                |
| Appearance (D115662)                                              | White to Off-White Powder | White to Off-White Powder |
| Infrared spectrum                                                 | Conforms to Structure     | Conforms to Structure     |
| Proton NMR spectrum                                               | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager