

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-13 15:45:49  
 Date of Next Testing: 2029-10-12 15:45:49  
 Product Name: (R)-(-)-1,2,3,4-Tetrahydro-1-naphthylamine  
 CAS Number: 23357-46-2  
 Specifications & Purity:  $\geq 99\%$ ,  $\geq 98\%$ (ee)  
 Lot #: L2121273  
 SKU #: T113722  
 Version: 0  
 Analysis #: 586432  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                  | Limit Values              | Result                    |
|------------------------------------------------------------|---------------------------|---------------------------|
| Purity(GC)                                                 | 99-100 (%)                | 99.44000 %                |
| Enantiometric Excess                                       | 98-100 (%)                | 99.00000 %                |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCL}_3)$ | -41--35 (°)               | -37.60000 °               |
| Appearance (T113722)                                       | colorless to brown liquid | colorless to brown liquid |
| Infrared spectrum                                          | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager