

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-08 09:44:51  
 Date of Next Testing: 2027-10-07 09:44:51  
 Product Name: (3S)-(-)-3-(Methylamino)pyrrolidine  
 CAS Number: 139015-32-0  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: I2325056  
 SKU #: M124586  
 Version: 1  
 Analysis #: 270294  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                            | Limit Values          | Result                |
|------------------------------------------------------|-----------------------|-----------------------|
| Density (20°C)                                       | 0.941-0.946           | 0.94400               |
| Refractive index n <sub>20</sub> /D                  | 1.474-1.477           | 1.47620               |
| Purity(Nonaqueous Titration)                         | 96.5-103.5 (%)        | 99.69000 %            |
| Purity(GC)                                           | 97-100 (%)            | 99.72300 %            |
| Specific Rotation [α] <sub>20</sub> /D(c=10 in EtOH) | -22--17 (°)           | -19.08300 °           |
| Proton NMR spectrum                                  | Conforms to structure | Conforms to Structure |



John Su  
QA & QC Manager