

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

|                          |                                         |
|--------------------------|-----------------------------------------|
| Date of Testing:         | 2024-01-30 15:59:56                     |
| Date of Next Testing:    | 2028-01-29 15:59:56                     |
| Product Name:            | <b>(R)-(-)-3-Amino-1-Boc-piperidine</b> |
| CAS Number:              | 188111-79-7                             |
| Specifications & Purity: | ≥98%                                    |
| Lot #:                   | A2419614                                |
| SKU #                    | <b>R115467</b>                          |
| Version                  | <b>0</b>                                |
| <b>Analysis #:</b>       | <b>298714</b>                           |
| Storage Temperature:     | Room temperature                        |

| Parameter                                          | Limit Values                    | Result                          |
|----------------------------------------------------|---------------------------------|---------------------------------|
| Purity(GC)                                         | 98-100 (%)                      | 99.14000 %                      |
| Specific Rotation [α] <sub>20</sub> /D(c=1 in DMF) | -30.5--26.5 (°)                 | -30.37500 °                     |
| Appearance (R115467)                               | colorless to pale yellow liquid | colorless to pale yellow liquid |
| Proton NMR spectrum                                | Conforms to Structure           | Conforms to Structure           |



John Su  
QA & QC Manager