

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-30 18:28:07  
 Date of Next Testing: 2027-03-29 18:28:07  
 Product Name: **(R)-1-Boc-3-hydroxypiperidine**  
 CAS Number: 143900-43-0  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: C2313486  
 SKU #: **B121547**  
 Version: **0**  
 Analysis #: **113972**  
 Storage Temperature: Room temperature

| Parameter                                                | Limit Values                    | Result                          |
|----------------------------------------------------------|---------------------------------|---------------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=5 \text{ in MeOH})$ | -25--19 (°)                     | -20.82700 °                     |
| Nitrogen by Elemental Analysis                           | 6.5-7.4 (%)                     | 6.93500 %                       |
| Purity                                                   | 97-100 (%)                      | 97.72300 %                      |
| Carbon by Elemental Analysis                             | 56-63.3 (%)                     | 60.29000 %                      |
| Appearance (B121547)                                     | White to Tan Powder or Crystals | White to Tan Powder or Crystals |
| Infrared spectrum                                        | Conforms to Structure           | Conforms to Structure           |
| Proton NMR spectrum                                      | Conforms to Structure           | Conforms to Structure           |



John Su  
QA & QC Manager