

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2025-11-11 14:15:05

Date of Next Testing: 2028-11-10 14:15:05

Product Name: **1,4-Di-Boc-piperazine-2-carboxylic acid**

CAS Number: 181955-79-3

Specifications & Purity:  $\geq 97\%$

Lot #: B23031308

SKU #: **D168064**

Version: **1**

Analysis #: **599260**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                | Limit Values                                                                         | Result                                                                               |
|--------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Purity(HPLC)             | 97-100 (%)                                                                           | 97.94000 %                                                                           |
| Appearance(D168064)      | White to Yellow and Faint Beige to Beige and Faint Brown to Brown Powder or Crystals | White to Yellow and Faint Beige to Beige and Faint Brown to Brown Powder or Crystals |
| NMR Spectrum 1H          | Conforms to Structure                                                                | Conforms to Structure                                                                |
| LC-MS for identification | Conforms                                                                             | Conforms                                                                             |



John Su  
QA & QC Manager