

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-08-22 09:57:18  
Date of Next Testing: 2027-08-22 09:57:18  
Product Name: **(S)-4-BOC-Piperazine-2-carboxylic acid**  
CAS Number: 848482-93-9  
Specifications & Purity: 98%  
Lot #: H2415445  
SKU #: **S186906**  
Version: **1**  
Analysis #: **353010**  
Storage Temperature: Store at 2-8°C, Protected from light

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.78%
Enantiomeric Excess	99-100 (%)	99.92720%
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su  
QA & QC Manager