

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-11-04 09:27:37  
 Date of Next Testing: 2028-11-03 09:27:37  
 Product Name: **N-4-Cbz-piperazine-2-carboxylate methyl ester**  
 CAS Number: 129799-11-7  
 Specifications & Purity:  $\geq 95\%$   
 Lot #: J2520768  
 SKU #: **N181053**  
 Version: **1**  
 Analysis #: **563423**  
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                | Limit Values          | Result                |
|--------------------------|-----------------------|-----------------------|
| Purity(HPLC area)        | 95-100 (%)            | 97.68800 %            |
| NMR Spectrum 1H          | Conforms to Structure | Conforms to Structure |
| LC-MS for identification | Conforms              | Conforms              |



John Su  
QA & QC Manager