

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-24 15:15:25

Date of Next Testing: 2027-10-24 15:15:25

Product Name: **1-tert-butyl 3-methyl (3S)-piperazine-1,3-dicarboxylate**

CAS Number: 314741-39-4

Specifications & Purity:  $\geq 97\%$

Lot #: J2418763

SKU #: **T176098**

Version: **1**

Analysis #: **367521**

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

| Parameter                | Limit Values          | Result                |
|--------------------------|-----------------------|-----------------------|
| Purity(HPLC area)        | 97-100 (%)            | 97.27 %               |
| Optical purity(ee)       | 98-100 (%)            | 99.80 %               |
| NMR Spectrum 1H          | Conforms to Structure | Conforms to Structure |
| LC-MS for identification | Conforms              | Conforms              |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager