

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-10-24 15:27:13
 Date of Next Testing: 2027-10-24 15:27:13
 Product Name: **1-tert-butyl 3-methyl (3S)-piperazine-1,3-dicarboxylate**
 CAS Number: 314741-39-4
 Specifications & Purity: $\geq 97\%$
 Lot #: J2418746
 SKU #: **T176098**
 Version: **1**
 Analysis #: **367521**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	97.27300 %
Optical purity(ee)	98-100 (%)	99.80000 %
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager