

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-06 17:17:02
 Date of Next Testing: 2027-06-05 17:17:02
 Product Name: (S)-1-(tert-Butoxycarbonyl)-2-methylpiperazine
 CAS Number: 169447-70-5
 Specifications & Purity: ≥98%(GC)
 Lot #: H1926194
 SKU #: S161397
 Version: 0
 Analysis #: 236021
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=0.65 in CHCl ₃)	68-72 (°)	71.95000°
Melting point	43-47 (°C)	44.21000 °C
Purity(GC)	98-100 (%)	98.17600 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager