

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-02 11:55:10
 Date of Next Testing: 2027-03-01 11:55:10
 Product Name: (1R,3S,4S)-N-Boc-2-azabicyclo[2.2.1]heptane-3-carboxylic acid
 CAS Number: 291775-59-2
 Specifications & Purity: $\geq 97\%$
 Lot #: B2322803
 SKU #: I169322
 Version: 0
 Analysis #: 150992
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity (Titration by NaOH)	96.5-103.5 (%)	100.94000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ CHCL}_3)$	-180--160 (°)	-179.99000 °
Appearance (I169322)	white to light brown powder or crystals	white to light brown powder or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager