

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-30 14:21:03
 Date of Next Testing: 2026-06-29 14:21:03
 Product Name: (S)-1-N-Boc-piperazine-2-carboxylic acid methyl ester
 CAS Number: 796096-64-5
 Specifications & Purity: $\geq 97\%$
 Lot #: F2325573
 SKU #: T177488
 Version: 1
 Analysis #: 223498
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	98.67000 %
Optical purity(GC)(ee)	97-100 (%)	97.01000 %
Water by Karl Fischer	0-1 (%)	0.98000 %
Appearance(T177488)	Colorless or light yellow transparent liquid	Colorless or light yellow transparent liquid
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager