

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-09 17:37:47

Date of Next Testing: 2026-12-08 17:37:47

Product Name: (S)-(-)-Piperazine-2-carboxylic acid dihydrochloride

CAS Number: 158663-69-5

Specifications & Purity: ≥98%

Lot #: L2206066

SKU #: P124229

Version: 0

Analysis #: 166158

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-6--4 (°)	-4.70600 °
Purity(HPLC)	98-100 (%)	98.42000 %
Appearance (P124229)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager