

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-28 10:40:44

Date of Next Testing: 2025-07-27 10:40:44

Product Name: **(S)-(-)-3-Cyclohexene-1-carboxylic Acid**

CAS Number: 5708-19-0

Specifications & Purity: $\geq 98\%$ (GC)

Lot #: G2219823

SKU #: **S161048**

Version **0**

Analysis #: **093872**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.478-1.482	1.47960
Density (20°C)	1.081-1.085	1.08300
Purity(GC)	98-100 (%)	99.78600 %
Specific Rotation [α] ₂₀ /D(c=5 in MeOH)	-97--92 (°)	-92.01000 °
Appearance (S161048)	colorless to yellow to brown liquid	colorless to yellow to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager