

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-19 18:08:13

Date of Next Testing: 2026-09-18 18:08:13

Product Name: **(1S,3R)-(-)-Camphoric Acid**

CAS Number: 560-09-8

Specifications & Purity: $\geq 98\%$

Lot #: K1827036

SKU #: **S161035**

Version: **1**

Analysis #: **136803**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.91280 %
Melting point	186-190 (°C)	187.26000 °C
Specific Rotation $[\alpha]_{20/D}(c=4 \text{ in EtOH})$	-50--46 (°)	-46.86900 °
Appearance (S161035)	White to off-white solid	White to off-white solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager