

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-16 16:57:23

Date of Next Testing: 2027-01-15 16:57:23

Product Name: **(1S)-(-)-Camphor**

CAS Number: 464-48-2

Specifications & Purity: $\geq 99\%$

Lot #: A2309817

SKU #: **C114001**

Version: **0**

Analysis #: **157304**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.70000 %
Specific Rotation $[\alpha]_{20/D}(c=20 \text{ in EtOH})$	-46--43 (°)	-43.80000 °
Melting point	175-180 (°C)	175.50000 °C
Appearance (C114001)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in MeOH , Colorless to Light Yellow,Clear 50 mg/mL	pass	Pass



John Su
QA & QC Manager