

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-16 20:07:36

Date of Next Testing: 2026-03-15 20:07:36

Product Name: **(+)-3-Carene**

CAS Number: 498-15-7

Specifications & Purity: $\geq 90\%$

Lot #: C23101060

SKU #: **C303816**

Version: **1**

Analysis #: **187861**

Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(GC)	90-100 (%)	94.10000 %
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	13-17 ($^{\circ}$)	15.80000 $^{\circ}$
Appearance(C303816)	Colorless to Light yellow clear liquid	Colorless to Light yellow clear liquid
NMR Spectrum ^1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager