

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-08 20:12:02

Date of Next Testing: 2024-12-07 20:12:02

Product Name:  **$\alpha$ -Pinene**

CAS Number: 80-56-8

Specifications &amp; Purity: 98%

Lot #: L2206834

SKU #: **P137373****Analysis: 159385**

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.13%
Specific Rotation [ $\alpha$ ]20/D(c=Neat)	-0.2-0.2 ( $^{\circ}$ )	0.11 $^{\circ}$
Appearance (P137373)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su  
QA & QC Manager