

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-03-09 13:09:15

Date of Next Testing: 2026-03-08 13:09:15

Product Name: **(+)-alpha-Pinene**

CAS Number: 7785-70-8

Specifications & Purity: 99%

Lot #: C2205572

SKU #: **P124468**

Version: **0**

Analysis #: **069330**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Density (20°C)	0.859-0.862	0.86
Enantiometric Excess	97-100 (%)	98.96 %
Purity(GC)	99-100 (%)	99.07 %
Refractive index n ₂₀ /D	1.465-1.467	1.47
Specific Rotation [α] ₂₀ /D(c=Neat)	42-46 (°)	42.76 °
Appearance (P124468)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager