

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-23 15:38:53

Date of Next Testing: 2027-04-22 15:38:53

Product Name: **(-)-Limonene**

CAS Number: 5989-54-8

Specifications & Purity: $\geq 95\%$ (GC)

Lot #: D2318131

SKU # **L157739**

Version **0**

Analysis #: **052721**

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	-90--61 (°)	-88.48300 °
Purity(GC)	95-100 (%)	97.43700 %
Appearance (L157739)	colorless to pale yellow liquid	colorless to pale yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager