

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-28 10:16:58

Date of Next Testing: 2028-08-27 10:16:58

Product Name: (-)-Limonene

CAS Number: 5989-54-8

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

Lot #: H2416375

SKU #: L157739

Version: 0

Analysis #: 396420

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

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	-90--61 (°)	-74.53200 °
Purity(GC)	95-100 (%)	96.29300 %
Appearance (L157739)	colorless to pale yellow liquid	colorless to pale yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager