

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-19 17:26:31
Date of Next Testing: 2029-05-18 17:26:31
Product Name: **(-)-Limonene**
CAS Number: 5989-54-8
Specifications & Purity: $\geq 95\%$ (GC)
Lot #: E2514386
SKU #: **L157739**
Version: **0**
Analysis #: **503984**
Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Specific Rotation [a] _D 20/D(c=Neat)	-90--61 (°)	-83.05200°
Purity(GC)	95-100 (%)	95.47600%
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