

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-30 15:52:18

Date of Next Testing: 2025-01-29 15:52:18

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

CAS Number: 5989-27-5

Specifications & Purity: $\geq 99\%$ (GC), For terpene analysis, > 99.0% (GC)

Lot #: A2330003

SKU #: **L128108**

Version: **1**

Analysis #: **177667**

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

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in EtOH})$	108.3-119.7 (°)	111.76800 °
Purity(GC)	99-100 (%)	99.06300 %
Refractive index $n_{20/D}$	1.471-1.474	1.47242
Density (20°C)	0.843-0.845	0.84400
Appearance (L128108)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager