

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2021-12-27 16:16:09
 Date of Next Testing: 2023-12-27 16:16:09
 Product Name: **(R)-(+)-Limonene**
 CAS Number: 5989-27-5
 Specifications & Purity: $\geq 99\%$ (GC), For terpene analysis, > 99.0% (GC)
 Lot #: L2123564
 SKU #: **L128108**
 Version: **1**
 Analysis #: **058857**
 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 (°)	113.45400 °
Purity(GC)	99-100 (%)	99.05900 %
Refractive index $n_{20/D}$	1.471-1.474	1.47270
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