

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-19 10:10:51
 Date of Next Testing: 2024-10-08 10:10:51
 Product Name: **(R)-(+)-Limonene**
 CAS Number: 5989-27-5
 Specifications & Purity: $\geq 95\%$, contains 0.03 % alpha-tocopherol as stabilizer
 Lot #: J2215317
 SKU #: **L106923**
 Version: **0**
 Analysis #: **140882**
 Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	95-100 (%)	96.01600 %
Density (20°C)	0.841-0.845	0.84300
Refractive index n ₂₀ /D	1.47-1.473	1.47260
Specific Rotation [α] ₂₀ /D(c=1 in MeOH)	102-110 (°)	109.23100 °
Appearance (L106923)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Stabilizer (0.03% tocopherol)	Conforms	Conforms



John Su
QA & QC Manager