

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-11-13 16:32:53  
Date of Next Testing: 2026-11-03 16:32:53  
Product Name: **(R)-(+)-Limonene**  
CAS Number: 5989-27-5  
Specifications & Purity:  $\geq 95\%$ , contains 0.03 % alpha-tocopherol as stabilizer  
Lot #: B2324806  
SKU #: **L106923**  
Version: **0**  
Analysis #: **432389**  
Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	95-100 (%)	95.94700 %
Density (20°C)	0.841-0.845	0.84100
Refractive index n <sub>20</sub> /D	1.47-1.473	1.47290
Specific Rotation [α] <sub>20</sub> /D(c=1 in MeOH)	102-110 (°)	107.53200 °
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