

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-12 10:54:18

Date of Next Testing: 2026-08-11 10:54:18

Product Name: **cis-(-)-Limonene oxide**

CAS Number: 32543-51-4

Specifications & Purity: 90%

Lot #: H2302532

SKU #: **C487025**

Analysis: **250586**

Parameter	Limit Values	Result
Purity(GC)	90-100 (%)	94.80 %
Specific rotation $[\alpha]_{20/D}(\text{neat})$	-50~-38 (°)	-43.00000
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
Appearance(C487025)	Colorless to Light Yellow Liquid	Colorless to light yellow liquid

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager