

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-19 17:17:21

Date of Next Testing: 2029-05-18 17:17:21

Product Name: **DL-Apple Acid Diethyl Ester**

CAS Number: 7554-12-3

Specifications & Purity: $\geq 98\%$ (GC)

Lot #: E2515353

SKU #: **D155732**

Version: **0**

Analysis #: **497653**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.70000 %
Refractive index n ₂₀ /D	1.433-1.436	1.43600
Density (20°C)	1.127-1.13	1.12710
Appearance (D155732)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager