

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-21 10:01:56

Date of Next Testing: 2028-05-20 10:01:56

Product Name: **Dimethyl D-malate**

CAS Number: 70681-41-3

Specifications & Purity: $\geq 98\%$

Lot #: J1921044

SKU #: **D103127**

Version: **0**

Analysis #: **512281**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	97.5-100 (%)	98.80 %
Refractive index n ₂₀ /D	1.438-1.442	1.44
Specific Rotation [α] ₂₀ /D(c=Neat)	5-8 (°)	7.90°
Density (20°C)	1.232-1.236	1.24
Appearance (D103127)	Colorless Liquid	Colorless 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