

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-11 09:33:40
Date of Next Testing: 2028-01-10 09:33:40
Product Name: **(-)-Ethyl L-lactate**
CAS Number: 687-47-8
Specifications & Purity: photoresist grade, $\geq 99\%$
Lot #: C2030021
SKU #: **E104553**
Version: **1**
Analysis #: **313022**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.9999-100 (%)	99.99990 %
Free acid	0-0.025 (%)	0.01400 %
Water by Karl Fischer	0-0.1 (%)	0.03800 %
Specific Rotation $[\alpha]_{20/D}(c=Neat)$	9.5-11.5 (°)	10.20000 °
Trace Metal Analysis	0-1 (ppm)	1.00000 ppm
Refractive index $n_{20/D}$	1.412-1.414	1.41300
Evaporation Residue	0-0.01 (%)	0.00300 %
Purity(sum of enantiomers)(GC)	99-100 (%)	99.14700 %
Appearance (E104553)	Colorless to light yellow liquid	Colorless to light yellow liquid



John Su
QA & QC Manager