

## Certificate of Analysis

Date of Testing: 2023-12-05 16:15:16  
Date of Next Testing: 2027-12-04 16:15:16  
Product Name: (-)-Ethyl L-lactate  
CAS Number: 687-47-8  
Specifications & Purity: 99%  
Lot #: K2327207  
SKU #: E104554  
Analysis: 294292

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.83%
Refractive index n <sub>20</sub> /D	1.412-1.414	1.41
Density (20°C)	1.034-1.038	1.04
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	-11.5--10 (°)	-10.06 °
Appearance (E104554)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager