

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-22 11:16:25  
Date of Next Testing: 2027-12-12 11:16:25  
Product Name: **Pyruvic acid**  
CAS Number: 127-17-3  
Specifications & Purity:  $\geq 98\%$ (T)  
Lot #: L2516065  
SKU #: **P104138**  
Version: **1**  
Analysis #: **442325**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	1.25 %
Purity (Titration by NaOH)	97.5-102.5 (%)	99.73 %
Refractive index n <sub>20</sub> /D	1.425-1.43	1.43
Purity(GC)	96-100 (%)	96.58 %
Density (20°C)	1.267-1.275	1.27
Appearance (P104138)	Colorless to Light Yellow or Yellow-Green	Colorless to Light Yellow or Yellow-Green
Infrared spectrum	Liquid Conforms to Structure	Liquid Conforms to Structure



John Su  
QA & QC Manager