

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-16 14:04:39

Date of Next Testing: 2025-06-05 14:04:39

Product Name: **Pyruvic acid**

CAS Number: 127-17-3

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

Lot #: F2308598

SKU #: **P104138**

Version: **1**

Analysis #: **227190**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	0-1.5 (%)	1.27920 %
Purity (Titration by NaOH)	97.5-102.5 (%)	100.12000 %
Sulfate Ash	0-0.01 (%)	0.00360 %
Purity(GC)	96-100 (%)	98.08500 %
Density (20°C)	1.267-1.275	1.27400
Refractive index n ₂₀ /D	1.425-1.43	1.42910
Appearance (P104138)	Colorless to Light Yellow or Yellow-Green Liquid	Colorless to Light Yellow or Yellow-Green Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager