

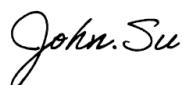
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-06 11:07:20
 Date of Next Testing: 2026-08-05 11:07:20
 Product Name: **Isopropyl Alcohol**
 CAS Number: 67-63-0
 Specifications & Purity: Pharmaceutical grade
 Lot #: H2202347
 SKU #: **I434894**
Analysis: 104879
 Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Specific gravity 25 °C	0.783-0.787	0.78500
Refractive index n ₂₀ /D	1.376-1.378	1.38
Assay(GC)	≥ 99.0 (%)	99.66100 %
Residue on Evaporation	≤ 0.0005 (%)	0.00 %
Diethyl Ether	≤ 0.1(%)	0.00000 %
Acetone	≤ 0.1 (%)	0.00000 %
Diisopropyl Ether	≤ 0.1 (%)	0.00000 %
N-Propanol	≤ 0.1 (%)	0.00000 %
2-Butanol	≤ 0.1 (%)	0.00000 %
methanol	≤ 0.02 (%)	0.00000 %
Unspecified Impurity	≤ 0.1 (%)	0.09400 %
Water by Karl Fischer	≤ 0.5 (%)	0.01 %
Total Impurities	≤ 1.0 (%)	0.31900 %
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager