

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-18 08:31:25

Date of Next Testing: 2028-10-17 08:31:25

Product Name: **Formic acid 98-100% (FA)**

CAS Number: 64-18-6

Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure

Lot #: J2513153

SKU #: **F433215**

Version: **1**

Analysis #: **592939**

Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Assay(Titration)	98-100 (%)	99.77000 %
Hazen	0-10	2.00000
Acetic acid(CH ₃ COOH)	0-500 (ppm)	100.00000 ppm
Chloride (Cl-)	0-5 (ppm)	1.56200 ppm
Sulfate(SO ₄ 2-)	0-5 (ppm)	2.87000 ppm
Sulfite(SO ₃ 2-)	0-10 (ppm)	6.00000 ppm
Heavy metals(as Pb)	0-10 (ppm)	7.01450 ppm
Silver(Ag)	0-0.02 (ppm)	0.01247 ppm
Aluminium(Al)	0-0.05 (ppm)	0.00254 ppm
Barium(Ba)	0-0.05 (ppm)	0.00250 ppm
Beryllium(Be)	0-0.02 (ppm)	0.01140 ppm
Bismuth(Bi)	0-0.1 (ppm)	0.00310 ppm
Calcium(Ca)	0-0.2 (ppm)	0.00100 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.00210 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00600 ppm
Chromium(Cr)	0-0.05 (ppm)	0.00510 ppm
Copper(Cu)	0-0.02 (ppm)	0.00110 ppm
Iron(Fe)	0-2 (ppm)	0.62100 ppm
Germanium (Ge)	0-0.05 (ppm)	0.00240 ppm
Potassium(K)	0-0.1 (ppm)	0.00410 ppm
Lithium(Li)	0-0.02 (ppm)	0.00210 ppm
Magnesium(Mg)	0-0.5 (ppm)	0.00610 ppm
Manganese(Mn)	0-0.05 (ppm)	0.00178 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.00180 ppm
Sodium(Na)	0-0.5 (ppm)	0.00130 ppm

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Nickel(Ni)	0-0.05 (ppm)	0.00310 ppm
Lead(Pb)	0-0.02 (ppm)	0.01100 ppm
Ammonium(NH4)	0-10 (ppm)	1.89600 ppm
Strontium(Sr)	0-0.02 (ppm)	0.00110 ppm
Titanium(Ti)	0-0.1 (ppm)	0.00900 ppm
Thallium(Tl)	0-0.05 (ppm)	0.00230 ppm
Vanadium(V)	0-0.05 (ppm)	0.00014 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00220 ppm
Zirconium(Zr)	0-0.1 (ppm)	0.00080 ppm
Evaporation Residue	0-10 (ppm)	8.30140 ppm
Appearance(F433215)	Colorless clear liquid	Colorless clear liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager