

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-17 11:01:42
 Date of Next Testing: 2028-10-16 11:01:42
 Product Name: **Formic acid 98-100% (FA)**
 CAS Number: 64-18-6
 Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure
 Lot #: J2513154
 SKU #: **F433215**
 Version: **1**
 Analysis #: **592752**
 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)	300.00000 ppm
Chloride (Cl-)	0-5 (ppm)	1.98950 ppm
Sulfate(SO ₄ 2-)	0-5 (ppm)	1.89400 ppm
Sulfite(SO ₃ 2-)	0-10 (ppm)	6.47000 ppm
Heavy metals(as Pb)	0-10 (ppm)	4.00000 ppm
Silver(Ag)	0-0.02 (ppm)	0.00140 ppm
Aluminium(Al)	0-0.05 (ppm)	0.00280 ppm
Barium(Ba)	0-0.05 (ppm)	0.00300 ppm
Beryllium(Be)	0-0.02 (ppm)	0.00110 ppm
Bismuth(Bi)	0-0.1 (ppm)	0.00780 ppm
Calcium(Ca)	0-0.2 (ppm)	0.00900 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.00631 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00078 ppm
Chromium(Cr)	0-0.05 (ppm)	0.00260 ppm
Copper(Cu)	0-0.02 (ppm)	0.00180 ppm
Iron(Fe)	0-2 (ppm)	0.00910 ppm
Germanium (Ge)	0-0.05 (ppm)	0.00024 ppm
Potassium(K)	0-0.1 (ppm)	0.01400 ppm
Lithium(Li)	0-0.02 (ppm)	0.00070 ppm
Magnesium(Mg)	0-0.5 (ppm)	0.00114 ppm
Manganese(Mn)	0-0.05 (ppm)	0.00640 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.00010 ppm
Sodium(Na)	0-0.5 (ppm)	0.00064 ppm

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Parameter	Limit Values	Result
Nickel(Ni)	0-0.05 (ppm)	0.00089 ppm
Lead(Pb)	0-0.02 (ppm)	0.00210 ppm
Ammonium(NH4)	0-10 (ppm)	4.23140 ppm
Strontium(Sr)	0-0.02 (ppm)	0.00085 ppm
Titanium(Ti)	0-0.1 (ppm)	0.00500 ppm
Thallium(Tl)	0-0.05 (ppm)	0.00017 ppm
Vanadium(V)	0-0.05 (ppm)	0.00210 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00231 ppm
Zirconium(Zr)	0-0.1 (ppm)	0.00314 ppm
Evaporation Residue	0-10 (ppm)	6.70145 ppm
Appearance(F433215)	Colorless clear liquid	Colorless clear liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager