

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-06 10:17:14
 Date of Next Testing: 2027-06-06 10:17:14
 Product Name: **Formic acid 98-100%**
 CAS Number: 64-18-6
 Specifications & Purity: Premium-Grade Reagents , for Analysis, ACS,Reag. Ph Eur
 Lot #: E2427045
 SKU #: **F433215**
 Version: **1**
 Analysis #: **358307**
 Storage Temperature: Protected from light,Room temperature

Parameter	Limit Values	Result
Hazen	0-10	10.00
Acetic acid(CH ₃ COOH)	0-500 (ppm)	12.30000 ppm
Chloride(Cl-)	0-5 (ppm)	5.00 ppm
Sulfate(SO ₄ 2-)	0-5 (ppm)	5.00 ppm
Sulfite(SO ₃ 2-)	0-10 (ppm)	10.00 ppm
Heavy metals(as Pb)	0-10 (ppm)	10.00 ppm
Silver (Ag)	0-0.02 (ppm)	0.00 ppm
Aluminium(Al)	0-0.05 (ppm)	0.01000 ppm
Barium(Ba)	0-0.05 (ppm)	0.01 ppm
Beryllium(Be)	0-0.02 (ppm)	0.00 ppm
Bismuth(Bi)	0-0.1 (ppm)	0.03 ppm
Calcium(Ca)	0-0.2 (ppm)	0.01 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.01 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00 ppm
Chromium(Cr)	0-0.05 (ppm)	0.02600 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Iron(Fe)	0-2 (ppm)	0.52 ppm
Germanium(Ge)	0-0.05 (ppm)	0.01 ppm
Potassium(K)	0-0.1 (ppm)	0.03 ppm
Lithium(Li)	0-0.02 (ppm)	0.00 ppm
Magnesium(Mg)	0-0.5 (ppm)	0.01 ppm
Manganese(Mn)	0-0.05 (ppm)	0.01 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.00 ppm
Sodium(Na)	0-0.5 (ppm)	0.01 ppm
Nickel(Ni)	0-0.05 (ppm)	0.01 ppm

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Lead(Pb)	0-0.02 (ppm)	0.00 ppm
Ammonium(NH4)	0-10 (ppm)	10.00000 ppm
Strontium(Sr)	0-0.02 (ppm)	0.00 ppm
Titanium(Ti)	0-0.1 (ppm)	0.03 ppm
Thallium(Tl)	0-0.05 (ppm)	0.01000 ppm
Vanadium(V)	0-0.05 (ppm)	0.01 ppm
Zinc(Zn)	0-0.05 (ppm)	0.01 ppm
Zirconium(Zr)	0-0.1 (ppm)	0.03 ppm
Evaporation Residue	0-10 (ppm)	10.00 ppm
Assay(Titration)	98-100 (%)	99.90%
Appearance(F433215)	Colorless clear liquid	Colorless clear liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager