

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-31 11:11:27
 Date of Next Testing: 2027-12-31 11:11:27
 Product Name: **Hydrofluoric acid 48%**
 CAS Number: 7664-39-3
 Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure
 Lot #: L2427387
 SKU #: **H485836**
 Version: **1**
 Analysis #: **455786**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(acidimetric)	48-51 (%)	49.01000 %
Chloride (Cl-)	0-1 (ppm)	0.02 ppm
Hexafluorosilicate(SiF ₆)	0-50 (ppm)	10.00000 ppm
Nitrate(NO ₃)	0-5 (ppm)	1.00000 ppm
Phosphate(PO ₄)	0-0.5 (ppm)	0.00 ppm
Sulfate and sulphite(as SO ₄)	0-5 (ppm)	0.36500 ppm
Heavy metals(as Pb)	0-0.5 (ppm)	0.00 ppm
Silver(Ag)	0-0.02 (ppm)	0.00 ppm
Aluminium(Al)	0-0.05 (ppm)	0.00000 ppm
Arsenic(As)	0-0.03 (ppm)	0.00011 ppm
Gold(Au)	0-0.1 (ppm)	0.00000 ppm
Boron(B)	0-0.05 (ppm)	0.00 ppm
Barium(Ba)	0-0.01 (ppm)	0.00 ppm
Beryllium(Be)	0-0.02 (ppm)	0.00 ppm
Bismuth(Bi)	0-0.02 (ppm)	0.00 ppm
Calcium(Ca)	0-0.2 (ppm)	0.00 ppm
Cadmium(Cd)	0-0.01 (ppm)	0.00 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00 ppm
Chromium(Cr)	0-0.01 (ppm)	0.00 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Gallium(Ga)	0-0.02 (ppm)	0.00 ppm
Germanium (Ge)	0-0.02 (ppm)	0.00 ppm
Indium(In)	0-0.02 (ppm)	0.00 ppm
Potassium(K)	0-0.1 (ppm)	0.00 ppm

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Lithium(Li)	0-0.01 (ppm)	0.00 ppm
Magnesium(Mg)	0-0.1 (ppm)	0.00 ppm
Manganese(Mn)	0-0.03 (ppm)	0.00 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.00 ppm
Sodium(Na)	0-0.2 (ppm)	0.00 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00 ppm
Lead(Pb)	0-0.02 (ppm)	0.00 ppm
Platinum(Pt)	0-0.2 (ppm)	0.00 ppm
Tin(Sn)	0-0.1 (ppm)	0.00 ppm
Strontium(Sr)	0-0.02 (ppm)	0.00 ppm
Titanium(Ti)	0-0.02 (ppm)	0.00 ppm
Thallium(Tl)	0-0.02 (ppm)	0.00030 ppm
Vanadium(V)	0-0.02 (ppm)	0.00 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00 ppm
Zirconium(Zr)	0-0.02 (ppm)	0.00 ppm
Residue on ignition (as sulfate)	0-5 (ppm)	0.96300 ppm

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager