

Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2022-04-25 12:17:16
Date of Next Testing: 2023-04-25 12:17:16
Product Name: **Hydrofluoric acid**
CAS Number: 7664-39-3
Specifications & Purity: semiconductor grade , 49wt. % in H₂O , ≥99.99998%metals basis
Lot #: F2102294
SKU #: **H116237**
Analysis: **087348**

Parameter	Limit Values	Result
Tin(Sn)	0-20 (ppb)	9.88000 ppb
Aurum(Au)	0-20 (ppb)	0.05300 ppb
Cadmium(Cd)	0-0.05 (ppm)	0.00110 ppm
Magnesium(Mg)	0-20 (ppb)	9.95000 ppb
Bismuth(Bi)	0-20 (ppb)	9.97000 ppb
Barium(Ba)	0-0.1 (ppm)	0.03400 ppm
Platinum(Pt)	0-100 (ppb)	49.87000 ppb
(Pb)Lead	0-0.05 (ppm)	0.03000 ppm
(As)Arsenic	0-50 (ppb)	0.83200 ppb
Phospate(PO ₄)	0-1000 (ppb)	279.00000 ppb
Color scale	0-10 (APHA)	5.00000 APHA
Manganese(Mn)	0-0.02 (ppm)	0.00010 ppm
Lithium(Li)	0-20 (ppb)	10.00000 ppb
Boron(B)	0-20 (ppb)	0.37600 ppb
Sodium(Na)	0-0.2 (ppm)	0.00100 ppm
(NO ₃)Nitrate	0-3000 (ppb)	199.00000 ppb
Titanium(Ti)	0-100 (ppb)	0.02300 ppb
Nickel(Ni)	0-0.05 (ppm)	0.02000 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00210 ppm
Chloride(Cl ⁻)	0-5000 (ppb)	1199.00000 ppb
Chromium(Cr)	0-20 (ppb)	9.00000 ppb
Copper(Cu)	0-20 (ppb)	9.00000 ppb
Molybdenum(Mo)	0-0.1 (ppm)	0.00240 ppm
Gallium(Ga)	0-20 (ppb)	10.00000 ppb
Assay	48-50 (%)	49.13000 %
Sulfate(SO ₄ ²⁻)	0-5 (ppm)	2.47000 ppm
Cobalt(Co)	0-20 (ppb)	0.04300 ppb

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Parameter	Limit Values	Result
Iron(Fe)	0-100 (ppb)	49.00000 ppb

A handwritten signature in black ink that reads "John.Su".

John Su
QA & QC Manager