

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

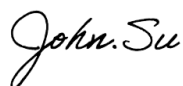
Certificate of Analysis

Date of Testing: 2024-06-17 10:21:57
Date of Next Testing: 2025-06-17 10:21:57
Product Name: **Hydrofluoric acid**
CAS Number: 7664-39-3
Specifications & Purity: semiconductor grade , 49wt. % in H₂O , ≥99.99998%metals basis
Lot #: F2414244
SKU #: **H116237**
Version **0**
Analysis #: **363998**

Parameter	Limit Values	Result
Tin(Sn)	0-20 (ppb)	0.00200 ppb
Aurum(Au)	0-20 (ppb)	0.00320 ppb
Cadmium(Cd)	0-0.05 (ppm)	0.00200 ppm
Magnesium(Mg)	0-20 (ppb)	0.06900 ppb
Bismuth(Bi)	0-20 (ppb)	0.00400 ppb
Barium(Ba)	0-0.1 (ppm)	0.00003 ppm
Platinum(Pt)	0-100 (ppb)	0.00430 ppb
(Pb)Lead	0-0.05 (ppm)	0.00000 ppm
(As)Arsenic	0-50 (ppb)	0.02700 ppb
Phospate(PO ₄)	0-1000 (ppb)	350.00000 ppb
Color scale	0-10 (APHA)	4.00000 APHA
Manganese(Mn)	0-0.02 (ppm)	0.00003 ppm
Lithium(Li)	0-20 (ppb)	0.00400 ppb
Boron(B)	0-20 (ppb)	0.05500 ppb
Sodium(Na)	0-0.2 (ppm)	0.00006 ppm
Titanium(Ti)	0-100 (ppb)	0.00200 ppb
Nickel(Ni)	0-0.05 (ppm)	0.00300 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00003 ppm
Chloride (Cl-)	0-5000 (ppb)	1400.00000 ppb
Chromium(Cr)	0-20 (ppb)	0.02100 ppb
Copper(Cu)	0-20 (ppb)	0.00340 ppb
Molybdenum(Mo)	0-0.1 (ppm)	0.00000 ppm
Gallium(Ga)	0-20 (ppb)	0.22500 ppb
Assay	48-50 (%)	49.12000 %
Sulfate(SO ₄ 2-)	0-5 (ppm)	0.80000 ppm
Cobalt(Co)	0-20 (ppb)	0.00450 ppb

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Parameter	Limit Values	Result
Iron(Fe)	0-100 (ppb)	0.14200 ppb
(NO ₃)Nitrate	0-3000 (ppb)	2500.00000 ppb

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

John Su
QA & QC Manager