

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

Certificate of Analysis

Date of Testing: 2024-12-31 11:42:33

Date of Next Testing: 2025-12-31 11:42:33

Product Name: **Hydrofluoric acid**

CAS Number: 7664-39-3

Specifications & Purity: PrimorTrace™ Ultra, electronic grade, ≥99.99998% metals basis, 49wt. % in H2O

Lot #: L2427382

SKU #: **H116237**

Version: **0**

Analysis #: **453457**

Parameter	Limit Values	Result
Tin(Sn)	0-20 (ppb)	0.00100 ppb
Aurum(Au)	0-20 (ppb)	0.00100 ppb
Cadmium(Cd)	0-0.05 (ppm)	0.00000 ppm
Magnesium(Mg)	0-20 (ppb)	0.11300 ppb
Bismuth(Bi)	0-20 (ppb)	0.00100 ppb
Barium(Ba)	0-0.1 (ppm)	0.00010 ppm
Platinum(Pt)	0-100 (ppb)	0.06200 ppb
(Pb)Lead	0-0.05 (ppm)	0.00000 ppm
(As)Arsenic	0-50 (ppb)	0.02300 ppb
Phospate(PO4)	0-1000 (ppb)	2.58600 ppb
Color scale	0-10 (APHA)	5.00000 APHA
Manganese(Mn)	0-0.02 (ppm)	0.00000 ppm
Lithium(Li)	0-20 (ppb)	0.00100 ppb
Boron(B)	0-20 (ppb)	0.08200 ppb
Sodium(Na)	0-0.2 (ppm)	0.00000 ppm
Titanium(Ti)	0-100 (ppb)	0.06000 ppb
Nickel(Ni)	0-0.05 (ppm)	0.00000 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00000 ppm
Chloride (Cl-)	0-5000 (ppb)	15.36200 ppb
Chromium(Cr)	0-20 (ppb)	0.10800 ppb
Copper(Cu)	0-20 (ppb)	0.03800 ppb
Molybdenum(Mo)	0-0.1 (ppm)	0.00000 ppm
Gallium(Ga)	0-20 (ppb)	0.00100 ppb
Assay	48-50 (%)	49.01000 %
Sulfate(SO42-)	0-5 (ppm)	0.36500 ppm

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

Parameter	Limit Values	Result
Cobalt(Co)	0-20 (ppb)	0.01300 ppb
Iron(Fe)	0-100 (ppb)	1.67700 ppb
(NO3)Nitrate	0-3000 (ppb)	2800.00000 ppb
Solvent(H2O)	Conform	Conform

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

John Su
QA & QC Manager