

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

## Certificate of Analysis

Date of Testing: 2026-09-22 09:55:10

Date of Next Testing: 2027-09-22 09:55:10

Product Name: **Hydrofluoric acid**

CAS Number: 7664-39-3

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

Lot #: L2515672

SKU #: **H116237**

Version: **0**

**Analysis #:** **776820**

Storage Temperature: Room temperature

| Parameter      | Limit Values | Result         |
|----------------|--------------|----------------|
| Tin(Sn)        | 0-20 (ppb)   | 0.00500 ppb    |
| Aurum(Au)      | 0-20 (ppb)   | 0.02100 ppb    |
| Cadmium(Cd)    | 0-0.05 (ppm) | 0.00001 ppm    |
| Magnesium(Mg)  | 0-20 (ppb)   | 0.07200 ppb    |
| Bismuth(Bi)    | 0-20 (ppb)   | 0.00200 ppb    |
| Barium(Ba)     | 0-0.1 (ppm)  | 0.00001 ppm    |
| Platinum(Pt)   | 0-100 (ppb)  | 0.01300 ppb    |
| (Pb)Lead       | 0-0.05 (ppm) | 0.00000 ppm    |
| (As)Arsenic    | 0-50 (ppb)   | 0.00600 ppb    |
| Phospate(PO4)  | 0-1000 (ppb) | 1.05100 ppb    |
| Color scale    | 0-10 (APHA)  | 5.00000 APHA   |
| Manganese(Mn)  | 0-0.02 (ppm) | 0.00001 ppm    |
| Lithium(Li)    | 0-20 (ppb)   | 0.00025 ppb    |
| Boron(B)       | 0-20 (ppb)   | 0.06700 ppb    |
| Sodium(Na)     | 0-0.2 (ppm)  | 0.00007 ppm    |
| (NO3)Nitrate   | 0-3000 (ppb) | 2000.00000 ppb |
| Titanium(Ti)   | 0-100 (ppb)  | 0.01400 ppb    |
| Nickel(Ni)     | 0-0.05 (ppm) | 0.00001 ppm    |
| Zinc(Zn)       | 0-0.05 (ppm) | 0.00003 ppm    |
| Chloride(Cl-)  | 0-5000 (ppb) | 2.52300 ppb    |
| Chromium(Cr)   | 0-20 (ppb)   | 0.02500 ppb    |
| Copper(Cu)     | 0-20 (ppb)   | 0.00650 ppb    |
| Molybdenum(Mo) | 0-0.1 (ppm)  | 0.00000 ppm    |
| Gallium(Ga)    | 0-20 (ppb)   | 0.00950 ppb    |

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| Parameter      | Limit Values | Result      |
|----------------|--------------|-------------|
| Assay          | 48-50 (%)    | 49.02000 %  |
| Sulfate(SO42-) | 0-5 (ppm)    | 0.05000 ppm |
| Cobalt(Co)     | 0-20 (ppb)   | 0.01300 ppb |
| Iron(Fe)       | 0-100 (ppb)  | 0.05300 ppb |
| Solvent(H2O)   | Conform      | Conform     |

