# ATI Water Analysis Kits

ATI ICP-OES Basic

ATI ICP-OES Pro

ATI ICP-MS Premium

| | ICP-OES Basic | ICP-OES Pro | ICP-MS Premium |
|---|---|---|---|
| Experience Level | Basic to Intermediate | Intermediate to Advanced | Advanced |
| Test Type | ICP-OES | ICP-OES | ICP-OES & ICP-MS[1] |
| Precision[2] | PPM to PPB | PPM to PPB | PPB to PPT |
| Contaminent Detection | | | Lower Limits/ Early Detection |
| RO Analysis | | ✓ | ✓ |
| **Basic Elements** | | | |
| KH[3] | | ✓ | ✓ |
| Salinity | ✓ | ✓ | ✓ |
| **Major Elements** | | | |
| Boron | ✓ | ✓ | ✓ |
| Bromine | ✓ | ✓ | ✓ |
| Calcium | ✓ | ✓ | ✓ |
| Chloride | ✓ | ✓ | ✓ |
| Fluorine[4] | | ✓ | ✓ |
| Magnesium | ✓ | ✓ | ✓ |
| Potassium | ✓ | ✓ | ✓ |
| Sodium | ✓ | ✓ | ✓ |
| Strontium | ✓ | ✓ | ✓ |
| Sulfur | ✓ | ✓ | ✓ |

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|---|---|---|---|
| **Minor Elements** | | | |
| Arsenic | ✓ | ✓ | ✓ |
| Barium | ✓ | ✓ | ✓ |
| Beryllium | ✓ | ✓ | ✓ |
| Chrome | ✓ | ✓ | ✓ |
| Cobalt | ✓ | ✓ | ✓ |
| Copper | ✓ | ✓ | ✓ |
| Iodine | ✓ | ✓ | ✓ |
| Iron | ✓ | ✓ | ✓ |
| Lithium | ✓ | ✓ | ✓ |
| Manganese | ✓ | ✓ | ✓ |
| Molybdenum | ✓ | ✓ | ✓ |
| Nickel | ✓ | ✓ | ✓ |
| Rubidium | | | ✓ |
| Selenium | ✓ | ✓ | ✓ |
| Silicon | ✓ | ✓ | ✓ |
| Silver | ✓ | ✓ | ✓ |
| Tin | ✓ | ✓ | ✓ |
| Vanadium | ✓ | ✓ | ✓ |
| Zinc | ✓ | ✓ | ✓ |

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|---|---|---|---|
| **Nutrients** | | | |
| Nitrate[5] | | ✓ | ✓ |
| Phosphate | ✓ | ✓ | ✓ |
| Phosphorus | ✓ | ✓ | ✓ |
| **Pollutants** | | | |
| Aluminum | ✓ | ✓ | ✓ |
| Antimony | ✓ | ✓ | ✓ |
| Bismuth | ✓ | ✓ | ✓ |
| Cadmium | ✓ | ✓ | ✓ |
| Gallium | | | ✓ |
| Germanium | | | ✓ |
| Lanthanum | ✓ | ✓ | ✓ |
| Lead | ✓ | ✓ | ✓ |
| Mercury | ✓ | ✓ | ✓ |
| Neodym | | | ✓ |
| Niobium | | | ✓ |
| Tellur | | | ✓ |
| Thallium | ✓ | ✓ | ✓ |
| Titanium | ✓ | ✓ | ✓ |
| Tungsten | ✓ | ✓ | ✓ |
| Zirconium | | | ✓ |

1 Double Validation of Results: Our lab tests each water sample using ICP-OES (Inductively Coupled Plasma Optical Emission Spectroscopy and ICP-MS (Inductively Coupled Plasma Mass Spectrometry) to ensure accuracy.
2 PPM (Parts Per Million); PPB (Parts Per Billion); PPT (Parts Per Trillion)
3 KH (Carbonate Hardness) is measured by End-point Titration in °dKH
4 Fluorine is measured by Ion Chromatography in PPM
5 Nitrate Measured by Ion Chromatography in PPM

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