

# Trace Element - Type I Water i-Series

The **Alto™-i** , **Duo™-i**  and **Duo™-i** 

Operated intermittently and product water dispensed to simulate typical use patterns. Samples were taken at intervals and analysed for anions using a Dionex ICS-3000 ion chromatograph and for elements by quadruple and high resolution magnetic sector ICP-MS.

## Basic Metal

| ELEMENT | NAME      | RESULTS ng/L |
|---------|-----------|--------------|
| Al      | Aluminium | <3           |
| In      | Indium    | <0.1         |
| Tl      | Thallium  | <3           |
| Pb      | Lead      | <0.1         |
| Bi      | Bismuth   | <2           |

## Nonmetal

| ELEMENT | NAME       | RESULTS ng/L |
|---------|------------|--------------|
| P       | Phosphorus | <10          |
| S       | Sulfur     | <0.1         |
| Se      | Selenium   | <10          |

## Semimetal

| ELEMENT | NAME      | RESULTS ng/L |
|---------|-----------|--------------|
| B       | Boron     | <9           |
| Si      | Silicon   | <20          |
| Ge      | Germanium | <0.1         |
| As      | Arsenic   | <0.1         |
| Sb      | Antimony  | <0.6         |
| Te      | Tellurium | <0.2         |

## Halogen

| ELEMENT | NAME     | RESULTS ng/L |
|---------|----------|--------------|
| F       | Fluorine | <1           |
| Cl      | Chlorine | <2           |

## Lanthanide

| ELEMENT | NAME         | RESULTS ng/L |
|---------|--------------|--------------|
| La      | Lanthanum    | <1           |
| Ce      | Cerium       | <1           |
| Pr      | Praseodymium | <1           |
| Nd      | Neodymium    | <1           |
| Sm      | Samarium     | <5           |
| Eu      | Europium     | <1           |
| Gd      | Gadolinium   | <1           |
| Dy      | Dysprosium   | <1           |
| Ho      | Holmium      | <1           |
| Er      | Erbium       | <1           |
| Tm      | Thulium      | <0.5         |
| Yb      | Ytterbium    | <1           |
| Lu      | Lutetium     | <1           |

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## Transition Metals

| ELEMENT | NAME       | RESULTS ng/L |
|---------|------------|--------------|
| Sc      | Scandium   | <300         |
| Ti      | Titanium   | <10          |
| V       | Vanadium   | <0.1         |
| Cr      | Chromium   | <0.2         |
| Mn      | Manganese  | <0.3         |
| Fe      | Iron       | <3           |
| Co      | Cobalt     | <0.5         |
| Ni      | Nickel     | <0.6         |
| Cu      | Copper     | <0.2         |
| Zn      | Zinc       | <3           |
| Y       | Yttrium    | <5           |
| Zr      | Zirconium  | <0.1         |
| Nb      | Niobium    | <0.2         |
| Mo      | Molybdenum | <0.2         |
| Ru      | Ruthenium  | <0.1         |

| ELEMENT | NAME      | RESULTS ng/L |
|---------|-----------|--------------|
| Rh      | Rhodium   | <0.5         |
| Pd      | Palladium | <1           |
| Ag      | Silver    | <0.8         |
| Cd      | Cadmium   | <0.1         |
| Hf      | Hafnium   | <0.1         |
| W       | Tungsten  | <0.5         |
| Re      | Rhenium   | <1           |
| Os      | Osmium    | <1           |
| Ir      | Iridium   | <0.8         |
| Pt      | Platinum  | <3           |
| Au      | Gold      | <0.1         |



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## Alkali Metal

| ELEMENT | NAME      | RESULTS ng/L |
|---------|-----------|--------------|
| Li      | Lithium   | <0.1         |
| Na      | Sodium    | <1.2         |
| K       | Potassium | <2           |
| Rb      | Rubidium  | <0.2         |

## Alkaline Earth

| ELEMENT | NAME      | RESULTS ng/L |
|---------|-----------|--------------|
| Be      | Beryllium | <0.2         |
| Mg      | Magnesium | <0.5         |
| Ca      | Calcium   | <0.1         |
| Sr      | Strontium | <0.1         |
| Ba      | Barium    | <0.1         |

## Actinide

| ELEMENT | NAME    | RESULTS ng/L |
|---------|---------|--------------|
| Th      | Thorium | <1           |
| U       | Uranium | <0.1         |