

**Limits of detection for water analysis under optimum measuring conditions.\***

See [www.inorganicventures.com/tech/periodic-table](http://www.inorganicventures.com/tech/periodic-table) and Spectro Report No. ICP-73, Rev. 2

Element	Analytical Range*	Element	Analytical Range*
----- ppm -----		----- ppm -----	
Ag Silver	0.001 - 150	Nb Niobium**	0.008 - 4000
Al Aluminum	0.010 - 5000	Nd Neodymium**	0.016 - 1500
As Arsenic	0.001 - 10000	Ni Nickel	0.001 - 2500
Au Gold**	0.020 - 7500	Os Osmium**	0.005 - 5000
B Boron	0.001 - 600	P Phosphorus	0.001 - 10000
Ba Barium	0.001 - 8000	Pb Lead	0.001 - 10000
Be Beryllium	0.001 - 2100	Pd Palladium**	0.020 - 10000
Bi Bismuth**	0.016 - 10000	Pr Praseodymium**	0.020 - 3500
Ca Calcium	0.002 - 10000	Pt Platinum**	0.030 - 10000
Cd Cadmium	0.001 - 200	Rb Rubidium	37.50 - 10000
Ce Cerium**	0.020 - 3000	Re Rhenium	0.010 - 6300
Co Cobalt	0.001 - 300	Rh Rhodium**	0.050 - 6300
Cr Chromium	0.001 - 7500	Ru Ruthenium**	0.014 - 7500
Cu Copper	0.001 - 4000	S Sulfur	0.007 - 500
Dy Dysprosium**	0.002 - 1500	Sb Antimony	0.002 - 10000
Er Erbium**	0.002 - 1000	Sc Scandium**	0.001 - 100
Eu Europium**	0.001 - 200	Se Selenium	0.002 - 10000
Fe Iron	0.001 - 1000	Si Silicon	0.001 - 3000
Ga Gallium**	0.030 - 5000	Sm Samarium**	0.010 - 2000
Gd Gadolinium**	0.003 - 1000	Sn Tin	0.001 - 8000
Ge Germanium**	0.014 - 5000	Sr Strontium	0.001 - 6300
Hf Hafnium**	0.018 - 5000	Ta Tantalum**	0.010 - 5000
		Tb Terbium**	0.010 - 2000
Ho Holmium**	0.003 - 400	Te Tellurium**	0.020 - 10000
In Indium**	0.030 - 4000	Th Thorium**	0.005 - 1500
Ir Iridium**	0.020 - 2500	Ti Titanium	0.001 - 4000
K Potassium	0.001 - 1000	Tl Thallium	0.002 - 10000
La Lanthanum**	0.006 - 300	Tm Thulium**	0.080 - 400
Li Lithium**	0.001 - 10000	V Vanadium	0.001 - 1000
Lu Lutetium**	0.001 - 250	W Tungsten**	0.020 - 3000
Mg Magnesium	0.003 - 5000	Y Yttrium	0.001 - 2500
Mn Manganese	0.001 - 5000	Yb Ytterbium**	0.001 - 1050
Mo Molybdenum	0.001 - 300	Zn Zinc	0.001 - 10000
Na Sodium	0.002 - 1000	Zr Zirconium**	0.002 - 900

\* Analytical ranges were compiled from published values and may not reflect actual ICP performance. Detection limits will vary somewhat depending on sample matrix. **Practical detection limits are typically 10 times the instrument's detection limit for that element.**

\*\* This element has an additional charge associated with it for the cost of obtaining a standard solution.