

iCE 3000 Series AA

Detection Limits

Element	Wavelength (nm)	Flame mg/L (ppm)	STAT mg/L (ppm)	Furnace µg/L* (ppb)	Zeeman Furnace µg/L* (ppb)	Vapour µg/L (ppb)
Aluminium	309.3	0.028	n/a	0.13	0.21	n/a
Antimony	217.6	0.092		0.29	0.4	0.06
Arsenic	193.7	0.12		0.33	0.53	0.05
Barium	553.6	0.031	n/a	0.23	0.5	n/a
Bismuth	223.1	0.0049		0.26	0.48	0.1
Cadmium	228.8	0.0028	0.001	0.01	0.02	
Calcium	422.7	0.0037	n/a			n/a
Chromium	357.9	0.0054	n/a	0.025	0.025	n/a
Cobalt	240.7	0.01				n/a
Copper	324.8	0.0045	0.003	0.065	0.29	n/a
Gold	242.8	0.013	0.005			n/a
Iron	248.3	0.0043		0.06	0.18	n/a
Lead (1)	217.0	0.013	0.006	0.03	0.11	
Lead (2)	283.3	0.016		0.08	0.07	
Lithium	670.8	0.0021				n/a
Magnesium	285.2	0.0022				n/a
Manganese	279.5	0.0016		0.03	0.06	n/a
Mercury (1)	253.7		0.11			0.06
Mercury (2)	253.7					0.03
Molybdenum	313.3	0.021	n/a	0.14	0.31	n/a
Nickel	232.0	0.008		0.065	0.16	n/a
Potassium	766.5	0.0009				n/a
Selenium	196.0	0.23	0.08	0.32	0.8	0.15
Silicon	251.6		n/a			n/a
Silver	328.1	0.0032	0.01	0.04	0.04	n/a
Sodium	589.0	0.0037				n/a
Tellurium	214.3	0.054	0.03			0.1
Thallium	276.8	0.014	0.07	0.15	0.5	n/a
Tin	224.6	0.21				0.2
Titanium	365.4	0.05	n/a	4.0	6.1	n/a
Vanadium	318.5	0.11	n/a	0.7	2.7	n/a
Zinc	213.9	0.0033	0.001			n/a

n/a = not available, cannot be used for this element.

* Furnace figures based on 20 mL injections

Lead (1) and Lead (2) are different atomic lines

Mercury (1) = Vapour using VP100 and borohydride reductant

Mercury (2) = Vapour using VP100 and stannous chloride reductant.