



# First Analytical Laboratories

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## Detection Limits Method 29

Element	Atomic Symbol	Instrument MDL $\mu\text{g/L}$	Method 29 total $\mu\text{g}$	Process Material mg/Kg	Analysis Technique
Antimony	Sb	10	1	0.7	GFAA
Arsenic	As	5	0.5	0.3	GFAA
Barium	Ba	30	3	2.0	ICP
Beryllium	Be	0.2	0.02	0.01	GFAA
Cadmium	Cd	0.2	0.02	0.01	GFAA
Chromium	Cr	5	0.5	0.3	GFAA
Cobalt	Co	10	1	0.7	GFAA
Copper	Cu	5	0.5	0.3	GFAA
Lead	Pb	5	0.5	0.3	GFAA
Manganese	Mn	5	0.5	0.3	FLAA
Mercury	Hg	0.2	1	0.01	CVAA
Nickel	Ni	10	1	0.7	GFAA
Phosphorus	P	100	10	7	ICP
Selenium	Se	10	1	0.7	GFAA
Silver	Ag	2	0.2	0.1	GFAA
Thallium	Tl	5	0.5	0.3	GFAA
Zinc	Zn	10	1	0.7	FLAA

## Detection Limits Other Elements

Element	Atomic Symbol	Instrument MDL $\mu\text{g/L}$	Method 29 total $\mu\text{g}$	Process Material mg/Kg	Analysis Technique
Aluminum	Al	100	10	6.7	ICP
Boron	B	300	30	20	ICP
Bismuth	Bi	100	10	6.7	ICP
Calcium	Ca	50	5	3.3	FLAA
Iron	Fe	40	4	2.7	ICP
Lithium	Li	20	2	1.3	FLAA
Magnesium	Mg	10	1	0.7	FLAA
Molybdenum	Mo	30	3	2	ICP
Potassium	K	50	5	3.3	FLAA
Sodium	Na	50	5	3.3	FLAA
Sulfur	S	200	20	13	ICP
Tin	Sn	8	0.8	0.5	GFAA
Scandium	Sc	?			
Silicon	Si	100	10	6.7	ICP
Vanadium	V	20	2	1.3	ICP