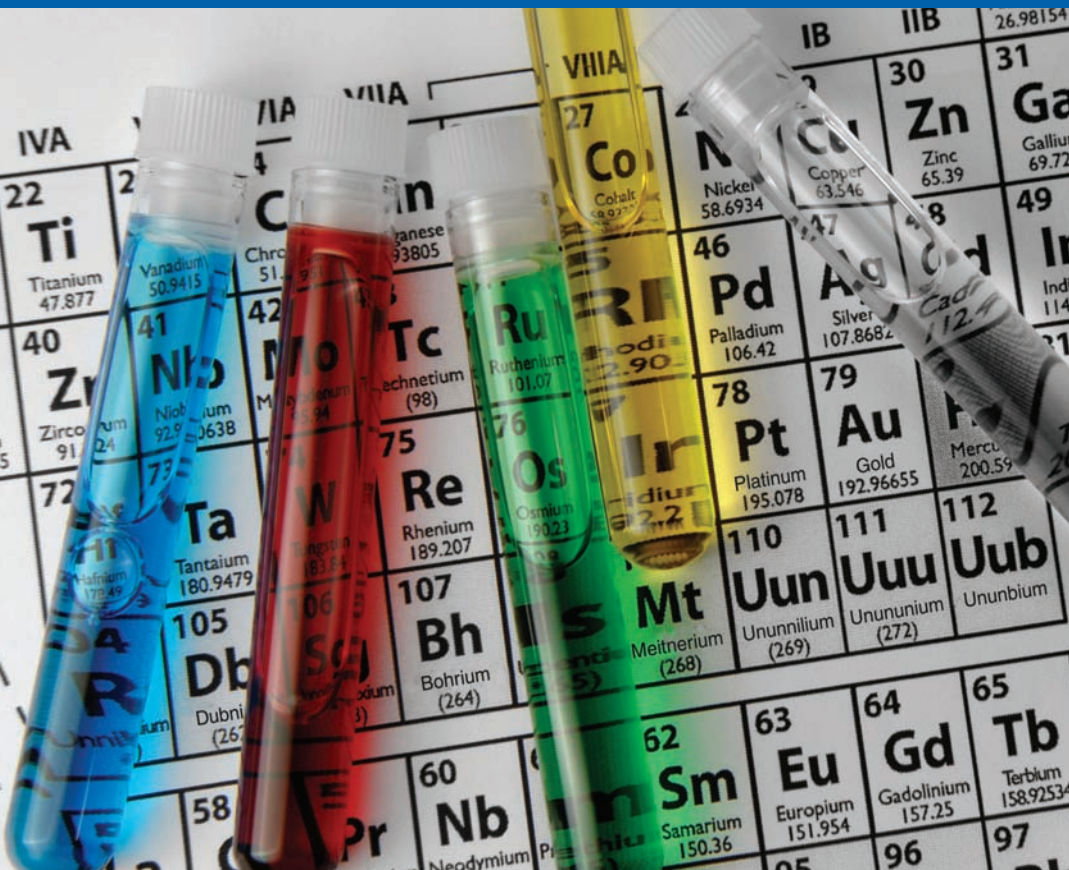


ICP Standards for Use with Popular Analytical Instrumentation

Alternate Source

Cross Reference ICP Standards



Merck

Varian

Agilent

JY (Jobin Yvon)

PE (Perkin Elmer)

Teledyne (Leeman Labs)

**Cross-Ref ICP
AccuStandard**

Economical alternatives to the high priced multi-element ICP solutions sold by Merck, Perkin Elmer, Varian, Agilent, Jobin Yvon and Teledyne are available from AccuStandard. Our "Alternate Source Line" offers identical formulations which can save a substantial amount in annual standards costs.

- **More Economical**
- **In Stock for Same Day Shipping**
- **Identical Formulations**
- **Manufactured by AccuStandard**

Instrument Manufactures are experts in instruments...AccuStandard is expert in analytical reference standards.

Part Number Cross Reference Table

Merck	AccuStandard	Agilent	AccuStandard	Perkin Elmer	AccuStandard	Perkin Elmer	AccuStandard
1.15474	MES-01	5183-4688	AG-CAL	N9300225	PE-CRDL2	N8122014	PE-SETUP2 *
1.15708	MES-02	5183-4682	AG-VER1	N0691580	PE-UV	N9303821	PE-CHK1
1.15626	MES-03	5188-6526	AG-INTFR	N9300221	PE-CAL7	N9303822	PE-CHK3
1.11355	MES-04	5188-6527	AG-INTFR2	N9300220	PE-CAL6	N9303823	PE-CHK4
1.10714	MES-05 *	5183-4687	AG-SPIKE	N9300219	PE-CAL5	N9303843	PE-TUNSQL
1.10580	MES-06 *	5183-4681	AG-INT	N9300218	PE-CAL4	N9303834	PE-MEINT
1.10322	MES-07	8500-6944	AG-MECAL1	N9300208	PE-ICS-5	N9303832	PE-INT
1.09492	MES-08 *	8500-6940	AG-MECAL2	N9300205	PE-ICS18	N9300231	PE-MECAL
1.09494	MES-09 *	8500-6948	AG-MECAL3	N9300226	PE-INTA	N9300232	PE-MECAL2
1.09493	MES-10 *	8500-6942	AG-MECAL4	N9300228	PE-ALTINTA	N9300233	PE-MECAL3
1.09491	MES-11 *	5188-6524	AG-TUN	N9300227	PE-ANAB	N9301720	PE-MECAL3
1.09490	MES-12 *			N9300229	PE-ALTB	N9300234	PE-MECAL4
1.09480	MES-13 *	Jobin Yvon	AccuStandard	N9300230	PE-SPIKE	N9300235	PE-MECAL5
1.09481	MES-14	JYICP-MIXHM	JY-CALHM	N9300216	PE-SDWA1	N9303839	PE-SPIKE1
1.09482	MES-15	JYICP-MIXMAJ	JY-CAL	N9300217	PE-SDWA	N9303840	PE-SPIKE2
1.09487	MES-16	JYICP-MIX9	JY-CHK	N9300211	PE-WPTM1	N9303841	PE-SPIKE3
1.09495	MES-17	JYICP-QC1	JY-CHK1	N9300212	PE-WPTM2		
1.09500	MES-18	JYICP-MIX7HSI	JY-QC7	N9300213	PE-WPTM3	Teledyne	AccuStandard
1.09496	MES-19 *	JYICP-MIX21	JY-QC21	N9300214	PE-WPAM1	601-3110	TELE-CHK1 *
1.09497	MES-20 *	JYICP-MIX23	JY-QC23	N9300215	PE-WPAM3	601-4101	TELE-CHK2 *
1.09498	MES-21 *			N9302946	PE-VISWAVE	601-4102	TELE-CHK3 *
1.09499	MES-22 *	Perkin Elmer	AccuStandard	N0681470	PE-UVWAVE	602-00065	TELE-CHK4
1.09410	MES-23	N0691579	PE-MCS	N0582152	PE-UVWAVE	602-00067	TELE-CHK4
1.09411	MES-24	N9300200	PE-MCS1	N9303816	PE-CAL1	602-00068	TELE-CHK5
		N9300201	PE-MCS2	N9301721	PE-CAL2	602-00070	TELE-CHK5
		N9300202	PE-MCS3	N9303818	PE-CAL3	602-00071	TELE-CHK6
Varian	AccuStandard	N9300203	PE-MCS4	N9303825	PE-VER1	602-00073	TELE-CHK6
190005800	WAVE-CAL-10X *	N9300204	PE-MCS5	N8125030	PE-STAB *	620-403	TELE-CHK7
190024400	VAR-TUN	N9300224	PE-CRDL	N8125032	PE-SETUP1 *	602-00125	TELE-CHK8
		N9300281	PE-QC21	N8122014	PE-SETUP *		
		N9300280	PE-QC7				

* nearly identical formulation

AccuStandard is recognized for its wide range of reference standards. Our complete Inorganic product line containing single and multi-element standards for ICP, ICP-MS, AA and Ion Chromatography as well as standards for Wet Chemical applications and Wear Metals analysis are included in our **Master Catalog**.

Traceability

Standards are traceable to NIST SRMs by ICP and/or wet chemical assay.



Certification and Accreditation

AccuStandard is accredited to ISO/IEC 17025 and certified to ISO 9001

AccuStandard's Master Catalog



This brochure represents a small sampling of our entire Inorganic product line.



AccuStandard has received many requests for the following multi-element standards. We now offer our own version of these popular mixes offered by Merck. Products are made to the same specifications as other mixes in our product line and subject to the same rigorous quality control.

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution I

MES-01-1	100 mL
MES-01-5	500 mL
At stated conc. (µg/mL) in 1 mol/L HNO ₃	
	19 comps.
Ag (Silver)	50
Al (Aluminum)	100
B (Boron)	15
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	25
Cu (Copper)	20
Fe (Iron)	15
Ga (Gallium)	150
In (Indium)	200
Mn (Manganese)	5
Ni (Nickel)	50
Pb (Lead)	200
Sr (Strontium)	1
Tl (Thallium)	400
Zn (Zinc)	20

ICP Multi-Element Standard Solution II

MES-02-1	100 mL
MES-02-5	500 mL
At stated conc. (µg/mL) in 1 mol/L HNO ₃	
	3 comps.
Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

ICP Multi-Element Standard Solution III

MES-03-1	100 mL
MES-03-5	500 mL
1000 µg/mL each in 1 mol/L HNO ₃	
	4 comps.
Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

ICP Multi-Element Standard Solution IV

MES-04-1	100 mL
MES-04-5	500 mL
1000 µg/mL each in 1 mol/L HNO ₃	
	23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Ca (Calcium)	Na (Sodium)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Pb (Lead)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

ICP Multi-Element Standard Solution V

MES-05-R1-1-SET	2x100 mL
MES-05-R1-5-SET	2x500 mL
At stated conc. (µg/mL) in 2-10% HCl	
	26 comps.

MES-05-R1	
Al (Aluminum)	20
As (Arsenic)	20
B (Boron)	2
Ba (Barium)	2
Be (Beryllium)	1
Ca (Calcium)	10
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Fe (Iron)	2
K (Potassium)	100
Li (Lithium)	2
Mg (Magnesium)	1
Mn (Manganese)	1
Na (Sodium)	20
Ni (Nickel)	5
P (Phosphorus)	10
Pb (Lead)	20
Sc (Scandium)	1
Se (Selenium)	20
Sr (Strontium)	1
Te (Tellurium)	20
Ti (Titanium)	2
Y (Yttrium)	1
Zn (Zinc)	2

MES-05-HG	
5% HNO ₃	
Hg (Mercury)	5
Supplied separately for better stability	

ICP Multi-Element Standard Solution VII

MES-07-1 *	100 mL
MES-07-5 *	500 mL
100 µg/mL each in Water tr. HNO ₃	
	9 comps.

NH ₄ (Ammonium)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Ca (Calcium)	Sr (Strontium)
K (Potassium)	
Li (Lithium)	
Mg (Magnesium)	

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ICP Multi-Element Standard Solution VI for MS

MES-06-1-SET	100 mL
MES-06-5-SET	500 mL
At stated conc. (µg/mL) in 1 mol/L HNO ₃ tr. HF	
	30 comps.

Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	100
B (Boron)	100
Ba (Barium)	10
Be (Beryllium)	100
Bi (Bismuth)	10
Ca (Calcium)	1000
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Ga (Gallium)	10
K (Potassium)	10
Li (Lithium)	10
Mg (Magnesium)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Na (Sodium)	10
Ni (Nickel)	10
Pb (Lead)	10
Rb (Rubidium)	10
Se (Selenium)	100
Sr (Strontium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	100

MES-06-TE	
Te (Tellurium)	10
supplied separately for better stability in 10% HCl	

ICP Multi-Element Standard Solution VIII

MES-08-1-SET	2x100 mL
MES-08-5-SET	2x500 mL
100 µg/mL each in 1 mol/L HNO ₃	
	24 comps.

MES-08	
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Mn (Manganese)
Bi (Bismuth)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cd (Cadmium)	Pb (Lead)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

MES-08-TE	
10% HCl	
Te (Tellurium)	
supplied separately for better stability	

ICP Multi-Element Standard Solution IX

MES-09-1-SET	2x100 mL
MES-09-5-SET	2x500 mL
100 µg/mL each in 1 mol/L HNO ₃	
	8 comps.

MES-09	
As (Arsenic)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Pb (Lead)	Tl (Thallium)
Cr (Chromium)	

MES-09-HG	
Hg (Mercury)	
supplied separately for better stability.	

ICP Multi-Element Standard Solution X

MES-10-1	100 mL
MES-10-5	500 mL
At stated conc. (µg/mL) in 1 mol/L HNO ₃	
	23 comps.

Ca (Calcium)	3500
Mg (Magnesium)	1500
Na (Sodium)	800
K (Potassium)	300
B (Boron)	10
Fe (Iron)	10
Mo (Molybdenum)	10
Sr (Strontium)	10
As (Arsenic)	5
Ba (Barium)	5
Ni (Nickel)	5
V (Vanadium)	5
Zn (Zinc)	5
Mn (Manganese)	3
Co (Cobalt)	2.5
Pb (Lead)	2.5
Be (Beryllium)	2
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Bi (Bismuth)	1
Se (Selenium)	1
Tl (Thallium)	1

ICP Multi-Element Standard Solution XI

MES-11-1-SET	2x100 mL
MES-11-5-SET	2x500 mL
At stated conc. (µg/mL) in 1 mol/L HNO ₃	
	6 comps.

MES-11	
Cd (Cadmium)	10
Cr (Chromium)	900
Cu (Copper)	800
Ni (Nickel)	200
Pb (Lead)	900
Zn (Zinc)	2500

MES-11-HG	
Hg (Mercury)	8
supplied separately for better product stability	

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ICP

Alternate Source

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution XII

MES-12-1-SET 2x100 mL
MES-12-5-SET 2x500 mL
1000 µg/mL each in 5% HCl tr.
HNO₃ 7 comps.

MES-12-R1

As (Arsenic) Si (Silicon)
Mo (Molybdenum) W (Tungsten)
P (Phosphorus) V (Vanadium)
S (Sulfur)

MES-12-ZR

Zr (Zirconium)
supplied separately for better product stability

ICP Multi-Element Standard Solution XIII

MES-13-1-SET 2x100 mL
MES-13-5-SET 2x500 mL
At stated conc. (µg/mL) in 5% HNO₃
15 comps.

MES-13

Al (Aluminum) 500
As (Arsenic) 100
Be (Beryllium) 100
Cd (Cadmium) 25
Co (Cobalt) 100
Cr (Chromium) 100
Cu (Copper) 100
Fe (Iron) 100
Mn (Manganese) 100
Ni (Nickel) 100
Pb (Lead) 100
Se (Selenium) 25
V (Vanadium) 250
Zn (Zinc) 100

MES-13-HG

Hg (Mercury) 5
supplied separately for better stability

ICP Multi-Element Standard Solution XIV

MES-14-1 100 mL
MES-14-5 500 mL
At stated conc. (µg/mL) in 2% HCl tr. HNO₃ 11 comps.

P (Phosphorus) 100
S (Sulfur) 100
K (Potassium) 100
As (Arsenic) 20
La (Lanthanum) 20
Li (Lithium) 20
Mo (Molybdenum) 20
Mn (Manganese) 20
Ni (Nickel) 20
Sc (Scandium) 20
Na (Sodium) 20

ICP Multi-Element Standard Solution XV

MES-15-1 100 mL
MES-15-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃
8 comps.

Element

Ba (Barium) 1
Ca (Calcium) 1
K (Potassium) 50
La (Lanthanum) 10
Li (Lithium) 10
Mn (Manganese) 10
Na (Sodium) 10
Sr (Strontium) 10

ICP Multi-Element Standard Solution XVI

MES-16-1 100 mL
MES-16-5 500 mL
100 µg/mL each in 5% HNO₃ tr. HF
21 comps.

Sb (Antimony) Mg (Magnesium)
As (Arsenic) Mn (Manganese)
Be (Beryllium) Mo (Molybdenum)
Cd (Cadmium) Ni (Nickel)
Ca (Calcium) Se (Selenium)
Cr (Chromium) Sr (Strontium)
Co (Cobalt) TI (Thallium)
Cu (Copper) Ti (Titanium)
Fe (Iron) V (Vanadium)
Pb (Lead) Zn (Zinc)
Li (Lithium)

ICP Multi-Element Standard Solution XVII

MES-17-1 100 mL
MES-17-5 500 mL
100 µg/mL each in 15% HCl tr.
HNO₃ 7 comps.

Hf (Hafnium) Ta (Tantalum)
Ir (Iridium) Ti (Titanium)
Sb (Antimony) Zr (Zirconium)
Sn (Tin)

ICP Multi-Element GF AAS Standard Solution XVIII

MES-18-R1-1 100 mL
MES-18-R1-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Ag (Silver) 10
Al (Aluminum) 100
As (Arsenic) 100
Ba (Barium) 50
Be (Beryllium) 5
Cd (Cadmium) 5
Co (Cobalt) 50
Cr (Chromium) 20
Cu (Copper) 50
Fe (Iron) 20
Mn (Manganese) 20
Ni (Nickel) 50
Pb (Lead) 100
Sb (Antimony) 100
Se (Selenium) 100
TI (Thallium) 100

ICP Multi-Element Standard Solution XIX for MS

MES-19-1 100 mL
MES-19-5 500 mL
1 µg/mL each in 1% HNO₃
5 comps.

Be (Beryllium) TI (Thallium)
Co (Cobalt) U (Uranium)
In (Indium)

ICP Multi-Element Standard Solution XX for MS

MES-20-1 100 mL
MES-20-5 500 mL
1 µg/mL each in 1% HNO₃
11 comps.

Mg (Magnesium) Ce (Cerium)
Cu (Copper) Ge (Germanium)
Cd (Cadmium) Tb (Terbium)
Pb (Lead) Ba (Barium)
Sc (Scandium)
Rh (Rhodium)
TI (Thallium)

ICP Multi-Element Standard Solution XXI for MS

MES-21-1-SET 2x100 mL
MES-21-5-SET 2x500 mL
10 µg/mL each in 5% HNO₃
30 comps.

MES-21 K (Potassium)
Ag (Silver) Li (Lithium)
Al (Aluminum) Mg (Magnesium)
As (Arsenic) Mn (Manganese)
Ba (Barium) Na (Sodium)
Be (Beryllium) Ni (Nickel)
Bi (Bismuth) Pb (Lead)
Ca (Calcium) Rb (Rubidium)
Cd (Cadmium) Se (Selenium)
Co (Cobalt) Sr (Strontium)
Cr (Chromium) TI (Thallium)
Cs (Cesium) V (Vanadium)
Cu (Copper) U (Uranium)
Fe (Iron) Zn (Zinc)
Ga (Gallium)
In (Indium)

MES-21-HG

Hg (Mercury) 10
supplied separately for better product stability

ICP Multi-Element Standard Solution XXII for MS

MES-22-1 100 mL
MES-22-5 500 mL
2 µg/mL each in 2% HNO₃
5 comps.

Cd (Cadmium) Rh (Rhodium)
Cu (Copper)
Mg (Magnesium)
Pb (Lead)



ICP Multi-Element Standard Solution XXIII for MS

MES-23-1 100 mL
MES-23-5 500 mL
1 µg/mL each in 5% HNO₃
15 comps.

Ba (Barium) Lu (Lutetium)
B (Boron) Na (Sodium)
Co (Cobalt) Rh (Rhodium)
Fe (Iron) Sc (Scandium)
Ga (Gallium) TI (Thallium)
In (Indium) U (Uranium)
K (Potassium) Y (Yttrium)
Li (Lithium)



ICP Multi-Element Standard Solution XXIV

MES-24-1 100 mL
MES-24-5 500 mL
At stated conc. (µg/mL) in 1% HNO₃ 15 comps.

Al (Aluminum) 50
As (Arsenic) 50
Ba (Barium) 50
Cd (Cadmium) 50
Co (Cobalt) 50
Cr (Chromium) 50
Cu (Copper) 50
K (Potassium) 500
Mn (Manganese) 50
Mo (Molybdenum) 50
Ni (Nickel) 50
Pb (Lead) 50
Se (Selenium) 50
Sr (Strontium) 50
Zn (Zinc) 50

AccuStandard is not affiliated with the companies and brands on this page, and the brands and company names appear for the purpose of cross reference with the corresponding AccuStandard product which is being offered.



AccuStandard is now offering calibration and testing standards for individual instruments. The Alternate Source Line (ASL) formulations match product from:

■ Varian ■ Agilent ■ JY (Jobin Yvon) ■ Perkin Elmer (PE) ■ Teledyne (Leeman Labs)

All of these products have been carefully formulated to be used for specific instrument setup and verification.

AccuStandard equivalent of Varian Calibration Solutions

Varian ICP Wavelength Calibration Solution

WAVE-CAL-1	100 mL
WAVE-CAL-5	500 mL
WAVE-CAL-10X-1	100 mL
WAVE-CAL-10X-5	500 mL

At stated conc. (µg/mL) in 1% HNO₃ 15 comps.

	CAL	CAL-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mn (Manganese)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Se (Selenium)	5	50
Sr (Strontium)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

Varian ICP OES Calibration Solution

WAVE-CAL2-1	100 mL
WAVE-CAL2-5	500 mL
WAVE-CAL2-10X-1	100 mL
WAVE-CAL2-10X-5	500 mL

At stated conc. (µg/mL) in 1% HNO₃ 14 comps.

	CAL2	CAL2-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Sr (Strontium)	5	50
P (Phosphorus)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

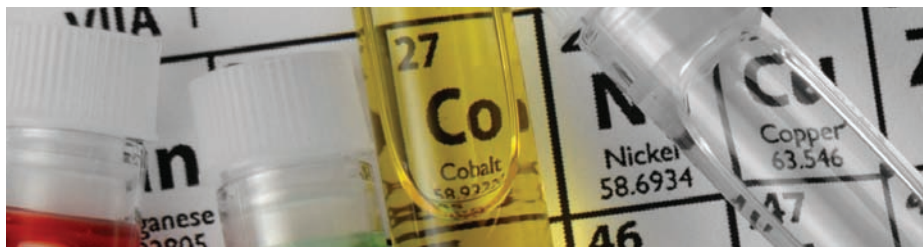


Varian ICP/MS Tuning Solution

VAR-TUN-ASL-1	100 mL
VAR-TUN-ASL-5	500 mL

10 µg/mL each in 2-5% HNO₃ 8 comps.

Be (Beryllium)	Pb (Lead)
Mg (Magnesium)	Th (Thorium)
Co (Cobalt)	Ba (Barium)
In (Indium)	Ce (Cerium)



AccuStandard equivalent of Agilent Solutions



7500 Series PA Tuning 1

AG-TUN1-ASL-1	100 mL
AG-TUN1-ASL-5	500 mL

At stated conc. (µg/mL) in 5% HNO₃ 26 comps.

Zn (Zinc)	20
Be (Beryllium)	20
Cd (Cadmium)	20
As (Arsenic)	20
Ni (Nickel)	10
Pb (Lead)	10
Mg (Magnesium)	10
Tl (Thallium)	5
Na (Sodium)	5
Al (Aluminum)	5
U (Uranium)	5
Cu (Copper)	5
Th (Thorium)	5
Ba (Barium)	5
Co (Cobalt)	5
Sr (Strontium)	5
V (Vanadium)	5
Cr (Chromium)	5
Mn (Manganese)	5
Li-6 (Lithium-6)	5
Sc (Scandium)	5
In (Indium)	5
Lu (Lutetium)	5
Bi (Bismuth)	5
Y (Yttrium)	2.5
Yb (Ytterbium)	2.5

7500 Series PA Tuning 2

AG-TUN2-ASL-1	100 mL
AG-TUN2-ASL-5	500 mL

At stated conc. (µg/mL) in 10% HCl, 1% HNO₃ tr. HF 8 comps.

Mo (Molybdenum)	10
Sb (Antimony)	10
Sn (Tin)	10
Ge (Germanium)	10
Ru (Ruthenium)	10
Pd (Palladium)	10
Ti (Titanium)	5
Ir (Iridium)	5

Tuning Solution Sets

AG-TUN-ASL-1-SET	2 x 100 mL
AG-TUN1-ASL-1	
AG-TUN2-ASL-1	
AG-TUN-ASL-5-SET	2 x 500 mL
AG-TUN1-ASL-5	
AG-TUN2-ASL-5	

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These products require a Hazardous Shipping Fee except products marked with an asterisk *



AccuStandard equivalent of Agilent Solutions

Environmental Calibration

Standard

AG-CAL-ASL-1 100 mL
AG-CAL-ASL-5 500 mL

At stated conc. (µg/mL) in 10% HNO₃ 25 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Environmental Initial Calibration

Verification

AG-VER1-ASL-1 100 mL
AG-VER1-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 26 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Interference Check 6020 #1

AG-INTFR-6020-ASL-1 100 mL
AG-INTFR-6020-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF 12 comps.

Cl (Chloride)	20,000
Ca (Calcium)	3000
Fe (Iron)	2500
Na (Sodium)	2500
C (Carbon)	2000
Al (Aluminum)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
K (Potassium)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check 6020 #2

AG-INTFR2-6020-ASL-1 / 100 mL
AG-INTFR2-6020-ASL-5 / 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 11 comps.

Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Environmental Spike Mix

AG-SPIKE-ASL-1 100 mL
AG-SPIKE-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	100
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	100
Be (Beryllium)	100
Cd (Cadmium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Mn (Manganese)	100
Mo (Molybdenum)	100
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
V (Vanadium)	100
Zn (Zinc)	100
U (Uranium)	100

Environmental Internal Standard

AG-INT-ASL-1 100 mL
AG-INT-ASL-5 500 mL

10 µg/mL each in 5-10% HNO₃ 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ge (Germanium)	Tb (Terbium)
In (Indium)	Y (Yttrium)
Li-6 (Lithium)	

Multi-Element Calibration Std. #1

AG-MECAL1-ASL-1 100 mL
AG-MECAL1-ASL-5 500 mL

10 µg/mL each in 5% HNO₃ 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sc (Scandium)
Er (Erbium)	Sm (Samarium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Y (Yttrium)
Lu (Lutetium)	Yb (Ytterbium)
Nd (Neodymium)	

Multi-Element Calibration Std.#2A

AG-MECAL2-ASL-1 100 mL
AG-MECAL2-ASL-5 500 mL

10 µg/mL each in 5% HNO₃ 25 comps.

Ag (Silver)	Li (Lithium)
Al (Aluminum)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
K (Potassium)	

Multi-Element Calibration Std. #3

AG-MECAL3-ASL-1 100 mL
AG-MECAL3-ASL-5 500 mL

10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Std. #4

AG-MECAL4-ASL-1 * 100 mL
AG-MECAL4-ASL-5 * 500 mL

10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

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AccuStandard equivalent of Jobin Yvon (JY)

Instrument Calibration Standard Heavy Metals

JY-CALHM-ASL-1 100 mL
JY-CALHM-ASL-5 500 mL
 At stated conc. (µg/mL) in 2-5% HNO₃ 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	30

Instrument Calibration Standard

JY-CAL-ASL-1 100 mL
JY-CAL-ASL-5 500 mL
 5000 µg/mL each in 2-5% HNO₃ 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Instrument Check Standard

JY-CHK-ASL-1 100 mL
JY-CHK-ASL-5 500 mL
 50 µg/mL each in 2-5% HNO₃ 9 comps.

Al (Aluminum)	K (Potassium)
As (Arsenic)	Na (Sodium)
Co (Cobalt)	P (Phosphorus)
Cr (Chromium)	Pb (Lead)
Cu (Copper)	

Instrument Check Standard 1

JY-CHK1-ASL-1 100 mL
JY-CHK1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

K (Potassium)	1500
Pb (Lead)	1000
Al (Aluminum)	500
Mg (Magnesium)	500
Cd (Cadmium)	100

Quality Control Standard 7

JY-QC7-ASL-1 100 mL
JY-QC7-ASL-5 500 mL
 At stated conc. (µg/mL) in 2-5% HNO₃ 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

Quality Control Standard 21

JY-QC21-ASL-1 100 mL
JY-QC21-ASL-5 500 mL
 100 µg/mL each in 2-5% HNO₃ tr. HF 21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Quality Control Standard 23

JY-QC23-ASL-1 100 mL
JY-QC23-ASL-5 500 mL
 1000 µg/mL each in 2-5% HNO₃ 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Cd (Cadmium)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cr (Chromium)	Pb (Lead)
Co (Cobalt)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

AccuStandard equivalent of Perkin Elmer (PE)

Alternate Interferents A

PE-ALTINTA-ASL-1 100 mL
PE-ALTINTA-ASL-5 500 mL
 1000 µg/mL each in 5% HNO₃ 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Analytes B

PE-ANAB-ASL-1 100 mL
PE-ANAB-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF, tr.
 Tartaric acid 14 comps.

Cd (Cadmium)	100
Ni (Nickel)	100
Zn (Zinc)	100
Sb (Antimony)	60
Ba (Barium)	50
Be (Beryllium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
Mn (Manganese)	50
V (Vanadium)	50
Ag (Silver)	20
As (Arsenic)	10
Tl (Thallium)	10

Alternate Analytes B

PE-ALTB-ASL-1 100 mL
PE-ALTB-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF, tr.
 Tartaric acid 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
B (Boron)	100
Mo (Molybdenum)	100
Na (Sodium)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Si (Silicon)	10

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ICP

Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

Instrument Calibration Std. 1

PE-CAL1-ASL-1 100 mL
PE-CAL1-ASL-5 500 mL
 20 µg/mL each in 2% HNO₃ tr. Tartaric acid
 20 comps.

Ag (Silver)	Mo (Molybdenum)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Th (Thorium)
Co (Cobalt)	Tl (Thallium)
Cr (Chromium)	U (Uranium)
Cu (Copper)	V (Vanadium)
Mn (Manganese)	Zn (Zinc)

Instrument Calibration Std. 2

PE-CAL2-ASL-1 100 mL
PE-CAL2-ASL-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF, tr. Tartaric acid
 26 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Mo (Molybdenum)
As (Arsenic)	Na (Sodium)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Pb (Lead)
Ca (Calcium)	Sb (Antimony)
Cd (Cadmium)	Se (Selenium)
Co (Cobalt)	Sn (Tin)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
K (Potassium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)

Instrument Calibration Std. 3

PE-CAL3-ASL-1 100 mL
PE-CAL3-ASL-5 500 mL
 1000 µg/mL each in 5% HNO₃ 5 comps.

Fe (Iron)	Na (Sodium)
K (Potassium)	Mg (Magnesium)
Ca (Calcium)	

Initial Calibration Verification Std.

PE-CRDL1-ASL-1 100 mL
PE-CRDL1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. Tartaric acid
 21 comps.

Ca (Calcium)	5000
Mg (Magnesium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Al (Aluminum)	200
Fe (Iron)	100
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
As (Arsenic)	10
Cr (Chromium)	10
Ag (Silver)	10
Tl (Thallium)	10
Cd (Cadmium)	5
Se (Selenium)	5
Pb (Lead)	3

Supplied as a 10X concentrate for better stability.

Instrument Calibration Std. 1

PE-CAL4-ASL-1 100 mL
PE-CAL4-ASL-5 500 mL
 5000 µg/mL each in 5% HNO₃ 4 comps.

Ca (Calcium)	Mg (Magnesium)
K (Potassium)	Na (Sodium)

Instrument Calibration Std. 2

PE-CAL5-ASL-1 100 mL
PE-CAL5-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Ni (Nickel)	400
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
Cr (Chromium)	100

Instrument Calibration Std. 3

PE-CAL6-ASL-1 100 mL
PE-CAL6-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 7 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Co (Cobalt)	500
V (Vanadium)	500
Cu (Copper)	250
Be (Beryllium)	50

Instrument Calibration Std. 4

PE-CAL7-ASL-1 100 mL
PE-CAL7-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	50

Detection Limit

PE-CRDL2-ASL-1 100 mL
PE-CRDL2-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF tr. Tartaric acid
 15 comps.

Sb (Antimony)	120
Co (Cobalt)	100
V (Vanadium)	100
Ni (Nickel)	80
Cu (Copper)	50
Zn (Zinc)	40
Mn (Manganese)	30
Ag (Silver)	20
As (Arsenic)	20
Cr (Chromium)	20
Tl (Thallium)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Se (Selenium)	10
P (Phosphorus)	6

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Instrument Check Standard 1

PE-CHK1-ASL-1 100 mL
PE-CHK1-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ tr. HF, tr. Tartaric acid
 17 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cr (Chromium)	Zn (Zinc)
Cu (Copper)	

Instrument Check Standard 3

PE-CHK3-ASL-1 100 mL
PE-CHK3-ASL-5 500 mL
 200 µg/mL each in 2% HNO₃ 5 comps.

Ca (Calcium)	Mg (Magnesium)
Fe (Iron)	Na (Sodium)
K (Potassium)	

Instrument Check Standard 4

PE-CHK4-ASL-1 100 mL
PE-CHK4-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 3 comps.

Mo (Molybdenum)	U (Uranium)
Th (Thorium)	

Instrument Check Standard 5

PE-CHK5-ASL-1 100 mL
PE-CHK5-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ tr. HF 4 comps.

Mo (Molybdenum)	Sr (Strontium)
Sn (Tin)	Tl (Thallium)

Detection Limit Standard for use with the ELAN 5000

PE-CRDL3-ASL-1 100 mL
PE-CRDL3-ASL-5 500 mL
 1 µg/mL each in 1% HNO₃ 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.



AccuStandard equivalent of Perkin Elmer (PE)

Interference Check Standard 5

PE-ICSS-ASL-1 100 mL
PE-ICSS-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Al (Aluminum)	1200
Na (Sodium)	1000

Interference Check Standard 18

PE-ICS18-ASL-1-SET 2 x 100 mL
PE-ICS18-ASL-5-SET 2 x 500 mL

PE-ICS18-ASL
 At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

K (Potassium)	20000
As (Arsenic)	1000
Pb (Lead)	1000
Tl (Thallium)	1000
Se (Selenium)	500
Ag (Silver)	300
Ba (Barium)	300
Cd (Cadmium)	300
Co (Cobalt)	300
Cr (Chromium)	300
Cu (Copper)	300
Ni (Nickel)	300
V (Vanadium)	300
Zn (Zinc)	300
Mn (Manganese)	200
Be (Beryllium)	100

PE-ICS18-HG-ASL
 100 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Internal Standard Mix

PE-INT-ASL-1 100 mL
PE-INT-ASL-5 500 mL
 10 µg/mL each in 5-10% HNO₃ 7 comps.

Li6 (Lithium)	In (Indium)
Sc (Scandium)	Tb (Terbium)
Ge (Germanium)	Bi (Bismuth)
Y (Yttrium)	

Interferents A

PE-INTA-ASL-1 100 mL
PE-INTA-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Mg (Magnesium)	5000
Fe (Iron)	2000

Interferents Check Solution 1

PE-INTFR1-ASL-1 100 mL
PE-INTFR1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 12 comps.

Cl (Chloride)	10000
C (Carbon)	2000
Al (Aluminum)	100
Ca (Calcium)	100
Fe (Iron)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
P (Phosphorus)	100
S (Sulfur)	100
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Solution 2

PE-INTFR2-ASL-1 100 mL
PE-INTFR2-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 9 comps.

Ag (Silver)	Cu (Copper)
As (Arsenic)	Mn (Manganese)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Zn (Zinc)
Cr (Chromium)	

Interference Check Standard A

PE-INTFRA-ASL-1 100 mL
PE-INTFRA-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 12 comps.

Cl (Chloride)	21215
Ca (Calcium)	3000
Na (Sodium)	2500
Fe (Iron)	2500
C (Carbon)	2000
Al (Aluminum)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Standard B

PE-INTFRB-ASL-1 100 mL
PE-INTFRB-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 11 comps.

Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Interference Check Standard C

PE-INTFRC-ASL-1-SET 2 x 100 mL
PE-INTFRC-ASL-5-SET 2 x 500 mL
 2 µg/mL each in 2% HNO₃ tr. HF tr. Tartaric acid 16 comps.

Sb (Antimony)	Pb (Lead)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Ag (Silver)
Cr (Chromium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cu (Copper)	Zn (Zinc)

PE-INTFRC-HG-ASL
 2 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

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AccuStandard equivalent of Perkin Elmer (PE)

Mixed Calibration Standard

PE-MCS-ASL-1 100 mL
PE-MCS-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 10 comps.

As (Arsenic)	50
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sr (Strontium)	10
Zn (Zinc)	10
Ba (Barium)	1
Mg (Magnesium)	1

Mixed Calibration Standard 1

PE-MCS1-ASL-1 100 mL
PE-MCS1-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 6 comps.

Pb (Lead)	500
Se (Selenium)	200
Cd (Cadmium)	150
Zn (Zinc)	150
Mn (Manganese)	100
Be (Beryllium)	50

Mixed Calibration Standard 2

PE-MCS2-ASL-1 100 mL
PE-MCS2-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Fe (Iron)	10000
Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
V (Vanadium)	100

Mixed Calibration Standard 3

PE-MCS3-ASL-1 100 mL
PE-MCS3-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ tr. HF 3 comps.

As (Arsenic)	500
Mo (Molybdenum)	100
Si (Silicon)	100

Mixed Calibration Standard 4

PE-MCS4-ASL-1 100 mL
PE-MCS4-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 6 comps.

Ca (Calcium)	1000
K (Potassium)	400
Al (Aluminum)	200
Na (Sodium)	200
Cr (Chromium)	20
Ni (Nickel)	20

Mixed Calibration Standard 5

PE-MCS5-ASL-1 100 mL
PE-MCS5-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF tr. Tartaric acid 5 comps.

Mg (Magnesium)	1000
Sb (Antimony)	200
Tl (Thallium)	200
B (Boron)	100
Ag (Silver)	50

Multi-Element Calibration

Standard 1

PE-MECAL1-ASL-1 100 mL
PE-MECAL1-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 9 comps.

Be (Beryllium)	Mg (Magnesium)
Bi (Bismuth)	Ni (Nickel)
Ce (Cerium)	Pb (Lead)
Co (Cobalt)	U (Uranium)
In (Indium)	

Multi-Element Calibration

Standard 2

PE-MECAL2-ASL-1 100 mL
PE-MECAL2-ASL-5 500 mL
 10 µg/mL each in 5% HNO₃ 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sm (Samarium)
Er (Erbium)	Sc (Scandium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Yb (Ytterbium)
Lu (Lutetium)	Y (Yttrium)
Nd (Neodymium)	

Multi-Element Calibration

Standard 3

PE-MECAL3-ASL-1-SET 2 x 100 mL
PE-MECAL3-ASL-5-SET 2 x 500 mL
PE-MECAL3-ASL 10 µg/mL each in 5% HNO₃ 29 comps.

Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Na (Sodium)
Bi (Bismuth)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
In (Indium)	

PE-MECAL3-HG-ASL

10 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Multi-Element Calibration

Standard 4

PE-MECAL4-ASL-1 100 mL
PE-MECAL4-ASL-5 500 mL
 10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration

Standard 5

PE-MECAL5-ASL-1 * 100 mL
PE-MECAL5-ASL-5 * 500 mL
 10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

Multi-Element Internal Standard

PE-MEINT-ASL-1 100 mL
PE-MEINT-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ho (Holmium)	Tb (Terbium)
In (Indium)	Y (Yttrium)
Li6 (Lithium)	

Memory Test 1

PE-MEM1-ASL-1 100 mL
PE-MEM1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 21 comps.

Al (Aluminum)	1000
Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
Pb (Lead)	20
Se (Selenium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Memory Test 2

PE-MEM2-ASL-1 * 100 mL
PE-MEM2-ASL-5 * 500 mL
 At stated conc. (µg/mL) in Water, tr. HF 6 comps.

Cl (Chloride)	7200
C (Carbon)	2000
P (Phosphorus)	1000
Mo (Molybdenum)	20
Sb (Antimony)	20
Tl (Thallium)	20

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AccuStandard equivalent of Perkin Elmer (PE)

QC Standard 7 Elements

PE-QC7-ASL-1 100 mL
PE-QC7-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ tr. HF
7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

QC Standard 21 Elements

PE-QC21-ASL-1 100 mL
PE-QC21-ASL-5 500 mL
100 µg/mL each in 5% HNO₃, tr. HF, tr. Tartaric acid
21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Primary Drinking Water Metals

PE-SDWA1-ASL-1-SET 2 x 100 mL
PE-SDWA1-ASL-5-SET 2 x 500 mL

PE-SDWA1-ASL
At stated conc. (µg/mL) in 2% HNO₃ 7 comps.

Ba (Barium)	100
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Pb (Lead)	10
Cd (Cadmium)	5
Se (Selenium)	5

PE-SDWA1-HG-ASL

10 µg/mL in 2% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Secondary Drinking Water Metals

PE-SDWA2-ASL-1 100 mL
PE-SDWA2-ASL-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Zn (Zinc)	500
Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5

ELAN 9000/6X00 Dual Detector Calibration Solution

PE-SETUP1-ASL-1 100 mL
PE-SETUP1-ASL-5 500 mL
2 µg/mL each in 1% HNO₃ tr. HCl 5 comps.

Cd (Cadmium)	Mg (Magnesium)
Cu (Copper)	Rh (Rhodium)
Pb (Lead)	

Supplied as a 10X concentrate for better stability.

ELAN 6000/5000 Plasma Setup Solution

PE-SETUP2-ASL-1 100 mL
PE-SETUP2-ASL-5 500 mL
1 µg/mL each in 2% HNO₃ tr. HCl 11 comps.

Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Rh (Rhodium)
Ce (Cerium)	Sc (Scandium)
Cu (Copper)	Tb (Terbium)
Ge (Germanium)	Tl (Thallium)
Pb (Lead)	

Supplied as a 100X concentrate for better stability.

SmartTune Solution for ELAN/DRC-e

PE-SMTUNE-ASL-1 100 mL
PE-SMTUNE-ASL-5 500 mL
1 µg/mL each in 2% HNO₃ tr. HCl 9 comps.

Ba (Barium)	Pb (Lead)
Be (Beryllium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

Spike Sample Analysis

PE-SPIKE-ASL-1 100 mL
PE-SPIKE-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 18 comps.

Al (Aluminum)	200
As (Arsenic)	200
Ba (Barium)	200
Se (Selenium)	200
Tl (Thallium)	200
Fe (Iron)	100
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Ag (Silver)	5
Be (Beryllium)	5
Cd (Cadmium)	5

Spike Sample Standard I (Water)

PE-SPIKE1-ASL-1 100 mL
PE-SPIKE1-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 17 comps.

Fe (Iron)	500
Ba (Barium)	250
Zn (Zinc)	250
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Mn (Manganese)	100
Ni (Nickel)	100
Sb (Antimony)	100
V (Vanadium)	100
As (Arsenic)	50
Pb (Lead)	50
Ag (Silver)	25
Be (Beryllium)	25
Cd (Cadmium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard II (Soil)

PE-SPIKE2-ASL-1 100 mL
PE-SPIKE2-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 15 comps.

Ba (Barium)	250
Cr (Chromium)	250
Cu (Copper)	250
Zn (Zinc)	250
V (Vanadium)	150
Ni (Nickel)	125
Co (Cobalt)	100
Pb (Lead)	100
Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	50
Ag (Silver)	25
Be (Beryllium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard III (for ILM 05.2)

PE-SPIKE3-ASL-1 100 mL
PE-SPIKE3-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 17 comps.

Al (Aluminum)	200
Ba (Barium)	200
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Sb (Antimony)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Ag (Silver)	5
Tl (Thallium)	5
As (Arsenic)	4
Pb (Lead)	2
Se (Selenium)	1

These products require a Hazardous Shipping Fee except products marked with an asterisk *

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ICP Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

ELAN 9000/6100 Setup/Stab/ Masscal Solution

PE-STAB-ASL-1	100 mL
PE-STAB-ASL-5	500 mL
1 µg/mL each in 1% HNO ₃ tr. HCl 9 comps.	

Ba (Barium)	Pb (Lead)
Cd (Cadmium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Cu (Copper)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

Tuning Solution I

PE-TUNSOL-ASL-1	100 mL
PE-TUNSOL-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃ tr. HCl 12 comps.	

Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Pb (Lead)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	Tl (Thallium)
In (Indium)	U (Uranium)
Li (Lithium)	Y (Yttrium)

Low UV Standard

PE-UV-ASL-1	100 mL
PE-UV-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃ 3 comps.	

Al (Aluminum)	S (Sulfur)
P (Phosphorus)	

VIS Wavecal Solution

PE-VISWAVE-ASL-1	100 mL
PE-VISWAVE-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃ 8 comps.	

K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10
Ba (Barium)	1
Ca (Calcium)	1

UV Wavecal Solution

PE-UVWAVE-ASL-1	100 mL
PE-UVWAVE-ASL-5	500 mL
At stated conc. (µg/mL) in 5% HCl 11 comps.	

K (Potassium)	100
P (Phosphorus)	100
S (Sulfur)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Na (Sodium)	20
Ni (Nickel)	20
Sc (Scandium)	20

Initial Calibration Verification Standard 1

PE-VER1-ASL-1	100 mL
PE-VER1-ASL-5	500 mL
At stated conc. (µg/mL) in 5% HNO ₃ tr. Tartaric acid 26 comps.	

Fe (Iron)	1000
K (Potassium)	1000
Ca (Calcium)	1000
Na (Sodium)	1000
Mg (Magnesium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Initial Calibration Verification Standard 2

PE-VER2-ASL-1	100 mL
PE-VER2-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃ tr. HF 2 comps.	

Sn (Tin)	Tl (Thallium)
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Trace Metals I

PE-WPTM1-ASL-1-SET	2 x 100 mL
PE-WPTM1-ASL-5-SET	2 x 500 mL

PE-WPTM1-ASL
At stated conc. (µg/mL) in 5% HNO₃ 14 comps.

Al (Aluminum)	500
V (Vanadium)	250
As (Arsenic)	100
Be (Beryllium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Zn (Zinc)	100
Cd (Cadmium)	25
Se (Selenium)	25

PE-WPTM1-HG-ASL

10 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Trace Metals II

PE-WPTM2-ASL-1	100 mL
PE-WPTM2-ASL-5	500 mL

At stated conc. (µg/mL) in 2% HNO₃ 3 comps.

Sb (Antimony)	20
Tl (Thallium)	20
Ag (Silver)	10

Trace Metals III

PE-WPTM3-ASL-1	100 mL
PE-WPTM3-ASL-5	500 mL

At stated conc. (µg/mL) in 2% HNO₃ 6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mo (Molybdenum)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

Alternate Metals 1

PE-WPAM1-ASL-1	100 mL
PE-WPAM1-ASL-5	500 mL

At stated conc. (µg/mL) in 2% HNO₃ 11 comps.

Al (Aluminum)	20
Fe (Iron)	20
V (Vanadium)	20
Co (Cobalt)	10
Cu (Copper)	10
Mn (Manganese)	10
Ni (Nickel)	10
Zn (Zinc)	10
Be (Beryllium)	5
Sb (Antimony)	5
Tl (Thallium)	5

Alternate Metals 3

PE-WPAM3-ASL-1	100 mL
PE-WPAM3-ASL-5	500 mL

At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Ca (Calcium)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

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AccuStandard equivalent of Teledyne

Check Mate 1

TELE-CHK1-ASL-1-SET 2 x 100 mL
TELE-CHK1-ASL-5-SET 2 x 500 mL

TELE-CHK1-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
 24 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
As (Arsenic)	10
B (Boron)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Si (Silicon)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK1-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Supplied separately for better product stability.

Check Mate 2

TELE-CHK2-ASL-1-SET 2 x 100 mL
TELE-CHK2-ASL-5-SET 2 x 500 mL

TELE-CHK2-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
 17 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sb (Antimony)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK2-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Supplied separately for better product stability.

Check Mate 3

TELE-CHK3-ASL-1-SET 2 x 100 mL
TELE-CHK3-ASL-5-SET 2 x 500 mL

TELE-CHK3-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
 17 comps.

Ca (Calcium)	10
K (Potassium)	10
Mg (Magnesium)	10
Na (Sodium)	10
Al (Aluminum)	1
Ba (Barium)	1
Be (Beryllium)	1
Cd (Cadmium)	1
Co (Cobalt)	1
Cr (Chromium)	1
Cu (Copper)	1
Fe (Iron)	1
Mn (Manganese)	1
Ni (Nickel)	1
Sb (Antimony)	1
V (Vanadium)	1
Zn (Zinc)	1

Supplied separately for better product stability.

TELE-CHK3-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Check Mate 4

TELE-CHK4-ASL-1 100 mL
TELE-CHK4-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Mg (Magnesium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Fe (Iron)	100
Al (Aluminum)	60
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Tl (Thallium)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Pb (Lead)	5
Se (Selenium)	5

Check Mate 5

TELE-CHK5-ASL-1 100 mL
TELE-CHK5-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Ca (Calcium)	2000
K (Potassium)	2000
Mg (Magnesium)	2000
Na (Sodium)	2000
Al (Aluminum)	1000
Ba (Barium)	1000
Fe (Iron)	1000
Co (Cobalt)	500
Ni (Nickel)	500
V (Vanadium)	500
Cr (Chromium)	200
Cu (Copper)	200
Ag (Silver)	100
Be (Beryllium)	100
Mn (Manganese)	100
Zn (Zinc)	100

Check Mate 6

TELE-CHK6-ASL-1 100 mL
TELE-CHK6-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic)	500
Pb (Lead)	500
Se (Selenium)	500
Tl (Thallium)	500
Cd (Cadmium)	100

Check Mate 7

TELE-CHK7-ASL-1 100 mL
TELE-CHK7-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
 17 comps.

Ca (Calcium)	50
K (Potassium)	50
Mg (Magnesium)	50
Na (Sodium)	50
Al (Aluminum)	5
Ba (Barium)	5
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	5
Cr (Chromium)	5
Cu (Copper)	5
Fe (Iron)	5
Mn (Manganese)	5
Ni (Nickel)	5
Sb (Antimony)	5
V (Vanadium)	5
Zn (Zinc)	5

Check Mate 8

TELE-CHK8-ASL-1 100 mL
TELE-CHK8-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Mg (Magnesium)	5000
Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Sb (Antimony)	600
Co (Cobalt)	500
V (Vanadium)	500
Ni (Nickel)	400
Cu (Copper)	250
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
As (Arsenic)	100
Cr (Chromium)	100
Tl (Thallium)	100
Be (Beryllium)	50
Cd (Cadmium)	50
Pb (Lead)	50
Se (Selenium)	50

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