

# Inorganic Reference Standards for use with Popular Analytical Instrumentation

**Cross Reference to Standards from:**

**Merck products**

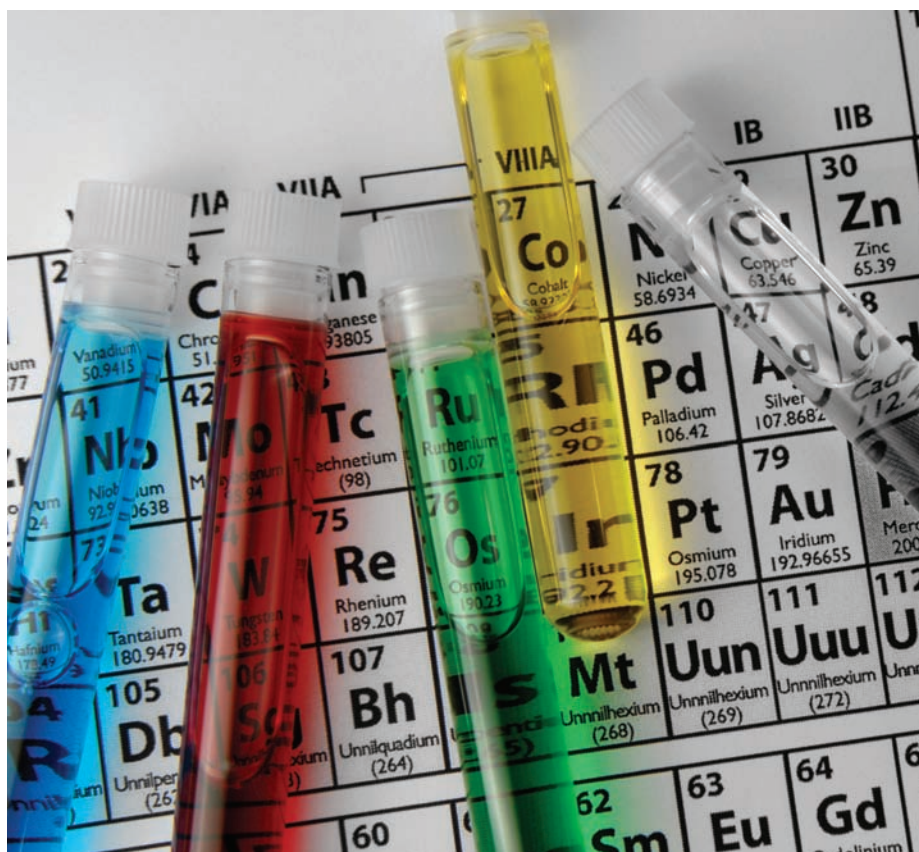
**Varian**

**Agilent**

**JY (Jobin Yvon)**

**Perkin Elmer**

**Teledyne (Leeman Labs)**



- **More economical**
- **Manufactured by AccuStandard**
  - Instrument manufacturers are experts in instruments
  - AccuStandard is the expert in Reference Standards
- **Technical support by standards experts**
- **In stock for same day shipping**



**AccuStandard®**



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<sub>3</sub>  
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<sub>3</sub>  
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<sub>3</sub>  
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<sub>3</sub>  
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-05-1-SET** 2x100 mL  
**MES-05-5-SET** 2x500 mL  
At stated conc. (µg/mL) in 5% HCl  
26 comps.

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

**MES-05-HG**  
5% HNO<sub>3</sub>  
Hg (Mercury) 5  
supplied separately for better stability

#### 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<sub>3</sub> 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 VII

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

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

#### 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<sub>3</sub>  
24 comps.

<b>MES-08</b>	
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<sub>3</sub>  
8 comps.

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

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

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### AccuStandard equivalent of Merck Multi-Element Standards

#### 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<sub>3</sub> 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<sub>3</sub> 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

#### 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.  
 HNO<sub>3</sub> 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% HNO<sub>3</sub> 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. HNO<sub>3</sub> 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% HNO<sub>3</sub> 8 comps.

Element	µg/mL
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% HNO<sub>3</sub> 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)	Tl (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. HNO<sub>3</sub> 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-18-1** 100 mL  
**MES-18-5** 500 mL  
 At stated conc. (µg/mL) in 5% HNO<sub>3</sub> 16 comps.

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

#### ICP Multi-Element Standard Solution XIX for MS

**MES-19-1** 100 mL  
**MES-19-5** 500 mL  
 1 µg/mL each in 1% HNO<sub>3</sub> 5 comps.

Be (Beryllium)	Tl (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% HNO<sub>3</sub> 11 comps.

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

#### 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% HNO<sub>3</sub> 30 comps.

**MES-21**

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
As (Arsenic)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
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)	V (Vanadium)
Fe (Iron)	U (Uranium)
Ga (Gallium)	Zn (Zinc)

**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% HNO<sub>3</sub> 5 comps.

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



# ICP

## Alternate Source

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

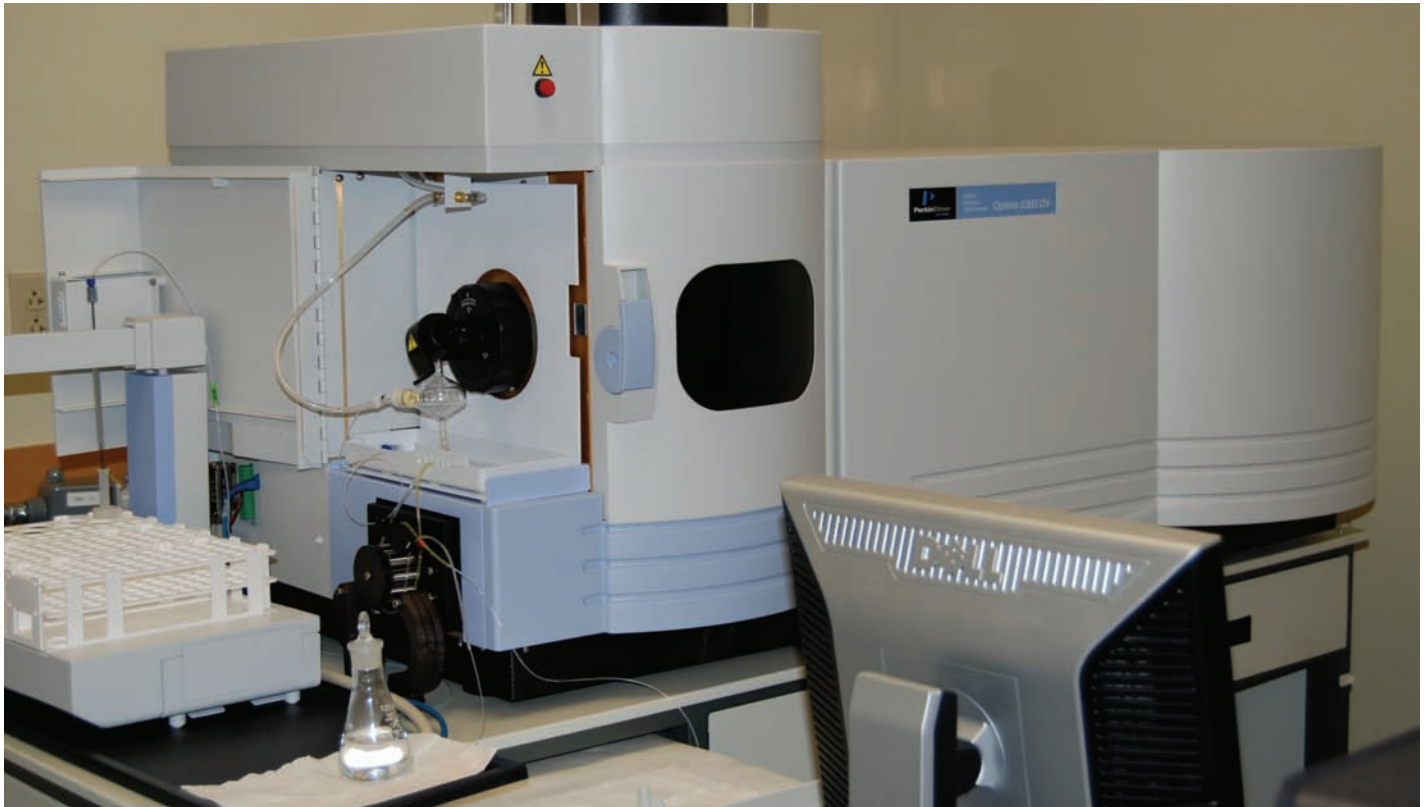
WAVE-CAL-1	100 mL
WAVE-CAL-5	500 mL
WAVE-CAL-10X-1	100 mL
WAVE-CAL-10X-5	500 mL
At stated conc. (µg/mL) in 1% HNO <sub>3</sub> 15 comps.	

#### 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% HNO <sub>3</sub> 14 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

	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



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### 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 25 comps.

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

#### 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)



### 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
As (Arsenic)	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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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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### AccuStandard equivalent of Perkin Elmer (PE)

**NEW**

#### Instrument Calibration Std. 1

**PE-CAL1-ASL-1** 100 mL  
**PE-CAL1-ASL-5** 500 mL  
 20 µg/mL each in 2% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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 concentration 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 6 comps.

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

#### Instrument Calibration Std. 4

**PE-CAL7-ASL-1** 100 mL  
**PE-CAL7-ASL-5** 500 mL  
 At stated conc. (µg/mL) in 5% HNO<sub>3</sub> 5 comps.

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

#### Detection Limit

**PE-CRDL2-ASL-1** 100 mL  
**PE-CRDL2-ASL-5** 500 mL  
 At stated conc. (µg/mL) in 5% HNO<sub>3</sub> 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

#### Instrument Check Standard 1

**PE-CHK1-ASL-1** 100 mL  
**PE-CHK1-ASL-5** 500 mL  
 10 µg/mL each in 2% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 5 comps.

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

Supplied as a 100X concentration for better stability.

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### 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% HNO<sub>3</sub> 5 comps.

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

#### Interference Check Standard 18

PE-ICSS18-ASL-1-SET 2 x 100 mL  
 PE-ICSS18-ASL-5-SET 2 x 500 mL

PE-ICSS18-ASL  
 At stated conc. (µg/mL) in 5% HNO<sub>3</sub> 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-ICSS18-HG-ASL  
 100 µg/mL in 5% HNO<sub>3</sub>

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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 12 comps.

Cl (Chloride)	10000
C (Calcium)	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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub>

Hg (Mercury)

Supplied separately for better product stability.



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### AccuStandard equivalent of Perkin Elmer (PE)

**NEW**

#### Mixed Calibration Standard

**PE-MCS-ASL-1** 100 mL  
**PE-MCS-ASL-5** 500 mL  
 At stated conc. (µg/mL) in 2% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub>

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-MECA5-ASL-1** 100 mL  
**PE-MECA5-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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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)

**NEW**

#### QC Standard 7 Elements

**PE-QC7-ASL-1** 100 mL  
**PE-QC7-ASL-5** 500 mL  
 At stated conc. (µg/mL) in 5% HNO<sub>3</sub>, 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub>

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% HNO<sub>3</sub>, 4 comps.

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

#### ELAN 5000 Plasma Setup Solution

**PE-SETUP-ASL-1** 100 mL  
**PE-SETUP-ASL-5** 500 mL  
 1 µg/mL each in 1% HNO<sub>3</sub>, 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 concentration for better stability.

#### 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% HNO<sub>3</sub>, 5 comps.

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

Supplied as a 10X concentration 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% HNO<sub>3</sub>, 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 concentration 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub>, 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% HNO<sub>3</sub>, 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

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### AccuStandard equivalent of Perkin Elmer (PE)

**NEW**

#### 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 <sub>3</sub>	9 comps.

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

Supplied as a 100X concentration 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 <sub>3</sub> , 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 <sub>3</sub>	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 <sub>3</sub>	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 <sub>3</sub> 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 <sub>3</sub> 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	14 comps.
At stated conc. (µg/mL) in 5% HNO <sub>3</sub>	

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% HNO<sub>3</sub>

Hg (Mercury)	Supplied separately for better product stability.
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##### Trace Metals II

PE-WPTM2-ASL-1	100 mL
PE-WPTM2-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO <sub>3</sub>	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% HNO <sub>3</sub>	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% HNO <sub>3</sub>	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% HNO <sub>3</sub>	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-AG-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO<sub>3</sub>  
 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% HNO<sub>3</sub>

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% HNO<sub>3</sub>  
 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% HNO<sub>3</sub>

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% HNO<sub>3</sub>  
 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

#### TELE-CHK3-AG-ASL

1000 µg/mL in 2% HNO<sub>3</sub>

Ag (Silver)

Supplied separately for better product stability.

#### Check Mate 4

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

At stated conc. (µg/mL) in 5% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub> 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% HNO<sub>3</sub>  
 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% HNO<sub>3</sub> 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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