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- ✓ **Five-year shelf life**
- ✓ **Traceable to NIST SRMs**
- ✓ **Produced under ISO 9001**
- ✓ **Produced under ISO 17025**
- ✓ **Produced under ISO 17034**
- ✓ **Assayed by validated Wet Chemical procedures**
- ✓ **Assayed by validated instrument procedures**

ILMO3.0

Standards for ILM03.0 are designed for use with ICP-OES. Custom EPA standards are available upon request.

Calibration Standard			
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	250	Fe	1,000
Al	2,000	K	5,000
Ba	2,000	Mg	5,000
Be	50	Mn	500
Ca	5,000	Na	5,000
Co	500	Ni	500
Cr	200	V	500
Cu	250	Zn	500

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard			
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	1,000	Se	1,000
Cd	500	Tl	1,000
Pb	1,000		

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard	
CGSB1	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100
CGSB1-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	1,000

CICV Standards – Continuing and Initial Calibration Verification

CICV Standard†			
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	125	Fe	500
Al	1,000	K	2,500
Ba	1,000	Mg	2,500
Be	25	Mn	250
Ca	2,500	Na	2,500
Co	250	Ni	250
Cr	100	V	250
Cu	125	Zn	250

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard†	
QCP-CICV-2	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100 or 1:500
QCP-CICV-2-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	500

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

CICV Standard†			
QCP-CICV-3		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	500	Se	500
Cd	250	Tl	500
Pb	500		

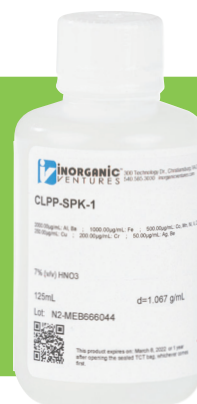
For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

†Manufactured from in-house Second Source concentrates, whenever possible.

CRDL Standards – Contract Required Detection Limit

We can create any CRDL standard to best fit your needs.

Custom solutions are our specialty.



Soil & Water Spike Standards

Spike Standard*			
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000	
CLPP-SPK-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	50	Cu	250
Al	2,000	Fe	1,000
Ba	2,000	Mn	500
Be	50	Ni	500
Co	500	V	500
Cr	200	Zn	500

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.

Spike Standard*	
CLPP-SPK-2	
Matrix: HNO ₃ /Tartaric Acid Dilution 1:1,000	
CLPP-SPK-2-125ML	
Volume: 125 mL	
Analyte	µg/mL
Sb	500

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

*Instructions included.

Interference Check Standards

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard			
CLPP-ICS-A		Matrix: HNO ₃ Dilution 1:10	
CLPP-ICS-A-125ML		Volume: 125 mL	
CLPP-ICS-A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	5,000	Fe	2,000
Ca	5,000	Mg	5,000

Interference Check Standard			
CLPP-ICS-B		Matrix: HNO ₃ Dilution 1:100	
CLPP-ICS-B-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Cu	50
Ba	50	Mn	50
Be	50	Ni	100
Cd	100	Pb	100
Co	50	V	50
Cr	50	Zn	100

ILM04.0

Standards for ILM04.0 are designed for use with ICP-OES. Custom EPA standards are available upon request.

Calibration Standards

Calibration Standard			
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	250	Fe	1,000
Al	2,000	K	5,000
Ba	2,000	Mg	5,000
Be	50	Mn	500
Ca	5,000	Na	5,000
Co	500	Ni	500
Cr	200	V	500
Cu	250	Zn	500

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard			
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	1,000	Se	1,000
Cd	500	Tl	1,000
Pb	1,000		

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard	
CGSB1	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100
CGSB1-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	1,000

†Manufactured from in-house Second Source concentrates, whenever possible.

CICV Standards – Continuing and Initial Calibration Verification

CICV Standard†			
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	125	Fe	500
Al	1,000	K	2,500
Ba	1,000	Mg	2,500
Be	25	Mn	250
Ca	2,500	Na	2,500
Co	250	Ni	250
Cr	100	V	250
Cu	125	Zn	250

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard†	
QCP-CICV-2	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100 or 1:500
QCP-CICV-2-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	500

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

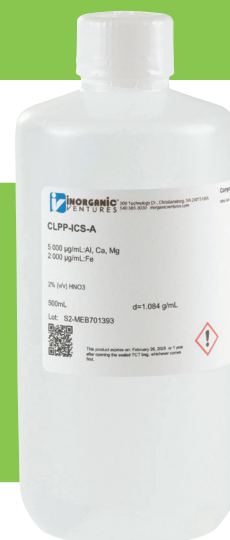
CICV Standard†			
QCP-CICV-3		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	500	Se	500
Cd	250	Tl	500
Pb	500		

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CRDL Standards – Contract Required Detection Limit

We can create any CRDL standard to best fit your needs.

Custom solutions are our specialty.



Soil & Water Spike Standards

Spike Standard*			
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000	
CLPP-SPK-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	50	Cu	250
Al	2,000	Fe	1,000
Ba	2,000	Mn	500
Be	50	Ni	500
Co	500	V	500
Cr	200	Zn	500

*Instructions included.

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods.



Don't see what you need?

Contact us with the solution part number and instrument manufacturer you're seeking, and we'll check our extensive library of solutions.

Interference Check Standards

Interference Check Standard A			
CLPP-ICS-A		Matrix: HNO ₃ Dilution 1:10	
CLPP-ICS-A-125ML		Volume: 125 mL	
CLPP-ICS-A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	5,000	Fe	2,000
Ca	5,000	Mg	5,000

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard B4			
CLPP-ICS-B4		Matrix: HNO ₃ Dilution 1:100	
CLPP-ICS-B4-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	Mn	50
As	10	Ni	100
Ba	50	Pb	5
Be	50	Sb	60
Cd	100	Se	5
Co	50	Tl	10
Cr	50	V	50
Cu	50	Zn	100

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

See individual products for recommended instrumentation and revision. Custom EPA standards are available upon request.

Calibration Standards

Calibration Standard	
CGSB1	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100
CGSB1-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	1,000

Calibration Standard			
CLPP-CAL-1		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	250	Fe	1,000
Al	2,000	K	5,000
Ba	2,000	Mg	5,000
Be	50	Mn	500
Ca	5,000	Na	5,000
Co	500	Ni	500
Cr	200	V	500
Cu	250	Zn	500

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

Calibration Standard			
CLPP-CAL-3		Matrix: HNO ₃ Dilution 1:100	
CLPP-CAL-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	1,000	Se	1,000
Cd	500	Tl	1,000
Pb	1,000		

For use as ICP calibration standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or CLPP-SPK-2 for suitable Sb reference standard.

CICV Standards – Continuing and Initial Calibration Verification

CICV Standard†			
QCP-CICV-1		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	125	Fe	500
Al	1,000	K	2,500
Ba	1,000	Mg	2,500
Be	25	Mn	250
Ca	2,500	Na	2,500
Co	250	Ni	250
Cr	100	V	250
Cu	125	Zn	250

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

CICV Standard†	
QCP-CICV-2	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100 or 1:500
QCP-CICV-2-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	500

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. For analyses requiring antimony (Sb). Designed to be diluted to working concentrations with QCP-CICV-1 and/or QCP-CICV-3.

CICV Standard†			
QCP-CICV-3		Matrix: HNO ₃ Dilution 1:100 or 1:500	
QCP-CICV-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	500	Se	500
Cd	250	Tl	500
Pb	500		

For use as initial/continuing calibration verification standard in EPA Contract Laboratory Program (CLP) methods. Does not contain antimony (Sb). Please see CGSB1 or QCP-CICV-2 for suitable Sb reference standard.

†Manufactured from in-house Second Source concentrates, whenever possible.

CRQL Standards – Contract Required Quantitation Limit

CRQL Standard			
CLP-AES-CRQL-2		Matrix: HNO ₃ Dilution 1:100 (water samples) 1:500 (soil samples)	
CLP-AES-CRQL-2-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	1	K	500
Al	20	Mg	500
As	1	Mn	1.5
Ba	20	Na	500
Be	0.5	Ni	4
Ca	500	Pb	1
Cd	0.5	Sb	6
Co	5	Se	3.5
Cr	1	Tl	2.5
Cu	2.5	V	5
Fe	10	Zn	6

For use as CRQL (Contract Required Quantitation Limit) ICP standard.

Interference Check Standards

Interference Check Standard A			
CLPP-ICS-A		Matrix: HNO ₃ Dilution 1:10	
CLPP-ICS-A-125ML CLPP-ICS-A-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	5,000	Fe	2,000
Ca	5,000	Mg	5,000

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Interference Check Standard B4			
CLPP-ICS-B4		Matrix: HNO ₃ Dilution 1:100	
CLPP-ICS-B4-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	Mn	50
As	10	Ni	100
Ba	50	Pb	5
Be	50	Sb	60
Cd	100	Se	5
Co	50	Tl	10
Cr	50	V	50
Cu	50	Zn	100

For use as ICP-OES interference check standard in EPA Contract Laboratory Program (CLP) methods.

Soil & Water Spike Standards

Spike Standard			
CLP-MS-SPK		Matrix: HNO ₃ Dilution 1:100	
CLP-MS-SPK-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	50
Al	200	Ni	50
As	4	Pb	2
Ba	200	Sb	10
Be	5	Se	1
Cd	5	Tl	5
Co	50	V	50
Cr	20	Zn	50
Cu	25		

For use as ICP soil or water spike standard in EPA Contract Laboratory Program (CLP) methods

Spike Standard			
CLPP-SPK-1		Matrix: HNO ₃ Dilution 1:1,000	
CLPP-SPK-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	50	Cu	250
Al	2,000	Fe	1,000
Ba	2,000	Mn	500
Be	50	Ni	500
Co	500	V	500
Cr	200	Zn	500

For use as ICP-OES soil or water spike standard in EPA Contract Laboratory Program (CLP) methods

Internal Standards & Tuning Solutions

Internal Standard			
6020ISS		Matrix: HNO ₃ Dilution 1:100	
6020ISS-125ML		Volume: 125 mL	
6020ISS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
⁶Li	10	Y	10

Internal standard for ICP-MS in all versions of EPA Method 6020.

Tuning Solution			
6020TS		Matrix: HNO ₃ Dilution 1:100	
6020TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	10	Li	10
In	10	Tl	10

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to Tl. Certified reference material that may also be used for calibration.

Tuning Solution			
2008TS		Matrix: HNO ₃ Dilution 1:100 to 1:1,000	
2008TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Be	10	Mg	10
Co	10	Pb	10
In	10		

For use as ICP-MS tuning solution in EPA Method 200.8.

Blank & Rinse Solutions

Blank & Rinse solutions are prepared using double-distilled reagents and 18 megohm (MΩ) deionized water. They come packaged in ultra-clean LDPE bottles and are ready to use. Custom solutions are available upon request.

2% (v/v) Nitric Acid Rinse	
CLP-MS-RINSE	Matrix: HNO ₃
CLP-MS-RINSE-125ML	Volume: 125 mL
CLP-MS-RINSE-500ML	Volume: 500 mL

See pg. 108 for more Blank & Rinse Solution options.

For use as ultra-pure nitric acid ICP rinse or blank solution. Suitable for EPA Contract Laboratory Program (CLP) methods. Manufactured using ultra-high purity HNO₃, >18 MΩ deionized water, and packaged in specially cleaned LDPE bottles. Certificate includes trace metal impurity values representative of typical analyses.

200.7 Calibration

Standards for Method 200.7 are designed for use with ICP-OES. Custom EPA standards are available upon request. Standards are designed for Method 200.7, Method 3120, Method 6010A Rev. 1 and Method 200.7 CLP-M.

Calibration Standard		
CLPP-SPK-2	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100	
CLPP-SPK-2-125ML	Volume: 125 mL	
Analyte	µg/mL	λ(nm)
Sb	500	206.833

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

Calibration Standard		
WW-CAL-1A	Matrix: HNO ₃ Dilution 1:100	
WW-CAL-1A-125ML	Volume: 125 mL	
Analyte	µg/mL	λ(nm)
Ag	50	328.068
As	1,000	193.759
B	100	249.678
Ba	100	493.409
Ca	1,000	315.887
Cd	200	226.502
Cu	200	324.754
Mn	200	257.610
Se	500	196.090
Sr*	100	421.552

For use as ICP-OES calibration standard I in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions

*NOTE: Sr does not exhibit spectral interference problems with any of the EPA Method 200.7 analytes.

Calibration Standard		
WW-CAL-2	Matrix: HNO ₃ / HF Dilution 1:100	
WW-CAL-2-125ML	Volume: 125 mL	
Analyte	µg/mL	λ(nm)
K	2,000	766.491
Li	500	670.784
Mo	1,000	203.844
Na	1,000	588.995
Ti	1,000	334.941

For use as ICP-OES calibration standard II in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-3	Matrix: HNO ₃ Dilution 1:100	
WW-CAL-3-125ML	Volume: 125 mL	
Analyte	µg/mL	λ(nm)
Ce	200	413.765
Co	200	228.616
P	1,000	214.914
V	200	292.402

For use as ICP-OES calibration standard III in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

200.7 Calibration

Calibration Standard		
WW-CAL-4A		Matrix: HNO ₃ Dilution 1:100
WW-CAL-4A-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Al	1,000	308.215
Cr	500	205.552
Hg	200	194.227
Zn	500	213.856

For use as ICP-OES calibration standard IV (Part A) in EPA Method 200.7. Designed to be mixed with WW-CAL-4B at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-4B		Matrix: HNO ₃ / HF Dilution 1:100
WW-CAL-4B-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
SiO₂	1,000	251.611
Sn	400	189.980

For use as ICP-OES calibration standard IV (Part B) in EPA Method 200.7. Designed to be mixed with WW-CAL-4A at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-5		Matrix: HNO ₃ Dilution 1:100
WW-CAL-5-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Be	100	313.042
Fe	1,000	259.940
Mg	1,000	279.079
Ni	200	231.604
Pb	1,000	220.353
Tl	500	190.864

For use as ICP-OES calibration standard V in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

200.7 Interference Checks

Interference Check Standard	
CGSB1	Matrix: HNO ₃ /Tartaric Acid Dilution 1:100
CGSB1-125ML	Volume: 125 mL
Analyte	µg/mL
Sb	1,000

Interference Check Standard			
2007ICS-1		Matrix: HNO ₃ / HF Dilution 1:100	
2007ICS-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
B	500	Si	230
Mo	300	Ti	1,000

For use as ICP-OES interference check standard in EPA Method 200.7.

Interference Check Standard			
2007ICS-3		Matrix: HNO ₃ Dilution 1:100	
2007ICS-3-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	300	K	20,000
As	1,000	Mn	200
Ba	300	Ni	300
Be	100	Pb	1,000
Cd	300	Se	500
Co	300	Tl	1,000
Cr	300	V	300
Cu	300	Zn	300

For use as ICP-OES interference check standard in EPA Method 200.7.

Interference Check Standard			
2007ICS-4		Matrix: HNO ₃ Dilution 1:50	
2007ICS-4-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	3,000	Mg	7,500
Ca	15,000	Na	2,500
Fe	12,500		

For use as ICP-OES interference check standard in EPA Method 200.7.

200.7 Quality Controls

Quality Control Standard†		
QCP-QCS-1		Matrix: HNO ₃ Dilution 1:100
QCP-QCS-1-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	100	308.215
As	200	193.759
B	100	249.678
Ba	100	493.409
Be	100	313.042
Ca	100	315.887
Cd	100	226.502
Ce	100	413.765
Co	100	228.616
Cr	100	205.552
Cu	100	324.754
Fe	100	259.940
Hg	200	194.227
K	500	766.491
Li	100	670.784
Mg	100	279.079
Mn	100	257.610
Na	100	588.995
Ni	100	231.604
P	500	214.914
Pb	200	220.353
Se	100	196.090
Sr	100	421.552
Tl	500	190.864
V	100	292.402
Zn	100	213.856

For use as ICP-OES QC standard in EPA Method 200.7.
Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard†		
QCP-QCS-2		Matrix: HNO ₃ / HF Dilution 1:100
QCP-QCS-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Mo	100	203.844
Sb	200	206.833
SiO ₂	500	251.611
Sn	500	189.980
Ti	100	334.941

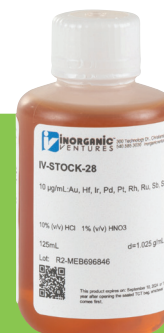
For use as ICP-OES QC standard in EPA Method 200.7.
Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard†			
IV-7		Matrix: HNO ₃ / HF Dilution 1:100	
IV-7-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	K	1,000
Al	100	Na	100
B	100	Si	50
Ba	100		

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Don't see what you need?

Contact us with the solution part number and instrument manufacturer you're seeking, and we can check our extensive library of solutions.



†Manufactured from in-house Second Source concentrates, whenever possible.

200.7 Quality Controls

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Quality Control Standard†			
IV-19		Matrix: HNO ₃ / HF Dilution 1:100	
IV-19-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard†			
IV-21		Matrix: HNO ₃ / HF Dilution 1:100	
IV-21-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	Tl	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard†			
IV-26		Matrix: HNO ₃ / HF Dilution 1:100	
IV-26-125ML IV-26-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
K	1,000	Zn	100

Quality Control Standard†			
IV-28		Matrix: HNO ₃ / HF Dilution 1:100	
IV-28-125ML IV-28-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	Tl	100
K	1,000	V	100
Li	100	Zn	100

†Manufactured from in-house Second Source concentrates, whenever possible.

Rev. 3.3 & 4.4 Calibrations – Standards may be used for either revision.

Calibration Standard		
CLPP-SPK-2		Matrix: HNO ₃ /Tartaric Acid Dilution 1:100
CLPP-SPK-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Sb	500	206.833

For use as Sb spike standard in EPA Contract Laboratory Program (CLP) methods.

Calibration Standard		
WW-CAL-1A		Matrix: HNO ₃ Dilution 1:100
WW-CAL-1A-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	50	328.068
As	1,000	193.759
B	100	249.678
Ba	100	493.409
Ca	1,000	315.887
Cd	200	226.502
Cu	200	324.754
Mn	200	257.610
Se	500	196.090
Sr	100	421.552

NOTE: Sr does not exhibit spectral interference problems with any of the EPA Method 200.7 analytes.

For use as ICP-OES calibration standard I in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-2		Matrix: HNO ₃ / HF Dilution 1:100
WW-CAL-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
K	2,000	766.491
Li	500	670.784
Mo	1,000	203.844
Na	1,000	588.995
Ti	1,000	334.941

For use as ICP-OES calibration standard II in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-3		Matrix: HNO ₃ Dilution 1:100
WW-CAL-3-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ce	200	413.765
Co	200	228.616
P	1,000	214.914
V	200	292.402

For use as ICP-OES calibration standard III in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-4A		Matrix: HNO ₃ Dilution 1:100
WW-CAL-4A-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Al	1,000	308.215
Cr	500	205.552
Hg	200	194.227
Zn	500	213.856

For use as ICP-OES calibration standard IV (Part A) in EPA Method 200.7. Designed to be mixed with WW-CAL-4B at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Calibration Standard		
WW-CAL-4B		Matrix: HNO ₃ / HF Dilution 1:100
WW-CAL-4B-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
SiO₂	1,000	251.611
Sn	400	189.980

For use as ICP-OES calibration standard IV (Part B) in EPA Method 200.7. Designed to be mixed with WW-CAL-4A at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Method 200.7

Rev. 3.3 & 4.4 Calibrations – Standards may be used for either revision.

Calibration Standard		
WW-CAL-5		Matrix: HNO ₃ Dilution 1:100
WW-CAL-5-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Be	100	313.042
Fe	1,000	259.940
Mg	1,000	279.079
Ni	200	231.604
Pb	1,000	220.353
Tl	500	190.864

For use as ICP-OES calibration standard V in EPA Method 200.7. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Rev. 3.3 & 4.4 Instrument Performance Checks – Standards may be used for either revision.

Instrument Performance Check		
WW-IPC-1		Matrix: HNO ₃ Dilution 1:100
WW-IPC-1-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	200	308.215
As	200	193.759
B	200	249.678
Ba	200	493.409
Be	200	313.042
Ca	200	315.887
Cd	200	226.502
Ce	200	413.765
Co	200	228.616
Cr	200	205.552
Cu	200	324.754
Fe	200	259.940
Hg	200	194.227
K	1,000	766.491
Li	200	670.784
Mg	200	279.079
Mn	200	257.610
Na	200	588.995
Ni	200	231.604
P	1,000	214.914
Pb	200	220.353
Se	200	196.090
Sr	200	421.552
Tl	200	190.864
V	200	292.402
Zn	200	213.856

Performance Check solution for EPA Method 200.7. Designed to be mixed with WW-IPC-2 at working concentrations. Based upon Revision 4.4 and suitable for all 200.7 versions.

Instrument Performance Check		
WW-IPC-2		Matrix: HNO ₃ / HF Dilution 1:100
WW-IPC-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Mo	200	203.844
Sb	200	206.833
SiO₂	1,000	251.611
Sn	200	189.980
Ti	200	334.941

Performance Check solution for EPA Method 200.7. Designed to be mixed with WW-IPC-1 or WW-IPC-3 at working concentrations. Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions

Instrument Performance Check		
WW-IPC-3		Matrix: HNO ₃ Dilution 1:100
WW-IPC-3-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	200	308.215
As	200	193.759
B	200	249.678
Ba	200	493.409
Be	200	313.042
Ca	200	315.887
Cd	200	226.502
Co	200	228.616
Cr	200	205.552
Cu	200	324.754
Fe	200	259.940
K	1,000	766.491
Li	200	670.784
Mg	200	279.079
Mn	200	257.610
Na	200	588.995
Ni	200	231.604
P	1,000	214.914
Pb	200	220.353
Se	200	196.090
Sr	200	421.552
Tl	200	190.864
V	200	292.402
Zn	200	213.856

Performance Check solution for EPA Method 200.7. Designed to be mixed with WW-IPC-2 at working concentrations. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.



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Rev. 3.3 & 4.4 Laboratory Fortified Stocks – Standards may be used for either revision.

Laboratory Fortified Stock Solution		
WW-LFS-1		Matrix: HNO ₃ Dilution 1:100
WW-LFS-1-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	7.5	328.068
Al	200	308.215
As	80	193.759
B	30	249.678
Ba	20	493.409
Be	20	313.042
Ca	100	315.887
Cd	20	226.502
Ce	200	413.765
Co	20	228.616
Cr	40	205.552
Cu	30	324.754
Fe	300	259.940
Hg	70	194.227
K	1,000	766.491
Li	20	670.784
Mg	200	279.079
Mn	20	257.610
Na	300	588.995
Ni	50	231.604
P	600	214.914
Pb	100	220.353
Se	200	196.090
Sr	20	421.552
Tl	200	190.864
V	30	292.402
Zn	20	213.856

Laboratory Fortified Stock Solution for EPA Method 200.7. Designed to be mixed with WW-LFS-2 at working concentrations. Suitable for use with all 200.7 versions.

Laboratory Fortified Stock Solution		
WW-LFS-2		Matrix: HNO ₃ / HF Dilution 1:100
WW-LFS-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Mo	40	203.844
Sb	80	206.833
SiO ₂	200	251.611
Sn	70	189.980
Ti	20	334.941

Laboratory Fortified Stock Solution for EPA Method 200.7. Designed to be mixed with WW-LFS-1 at working concentrations. Suitable for use with all 200.7 versions.

Rev. 3.3 & 4.4 Quality Controls – Standards may be used for either revision.

Quality Control Standard†		
QCP-QCS-1		Matrix: HNO ₃ Dilution 1:100
QCP-QCS-1-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Ag	25	328.068
Al	100	308.215
As	200	193.759
B	100	249.678
Ba	100	493.409
Be	100	313.042
Ca	100	315.887
Cd	100	226.502
Ce	100	413.765
Co	100	228.616
Cr	100	205.552
Cu	100	324.754
Fe	100	259.940
Hg	200	194.227
K	500	766.491
Li	100	670.784
Mg	100	279.079
Mn	100	257.610
Na	100	588.995
Ni	100	231.604
P	500	214.914
Pb	200	220.353
Se	100	196.090
Sr	100	421.552
Tl	500	190.864
V	100	292.402
Zn	100	213.856

For use as ICP-OES QC standard in EPA Method 200.7.
Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard†		
QCP-QCS-2		Matrix: HNO ₃ / HF Dilution 1:100
QCP-QCS-2-125ML		Volume: 125 mL
Analyte	µg/mL	λ(nm)
Mo	100	203.844
Sb	200	206.833
SiO ₂	500	251.611
Sn	500	189.980
Ti	100	334.941

For use as ICP-OES QC standard in EPA Method 200.7.
Based upon Revisions 3.3 and 4.4 and suitable for all 200.7 versions.

Quality Control Standard†			
IV-7		Matrix: HNO ₃ / HF Dilution 1:100	
IV-7-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	K	1,000
Al	100	Na	100
B	100	Si	50
Ba	100		

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

†Manufactured from in-house Second Source concentrates, whenever possible.

Rev. 3.3 & 4.4 Quality Controls – Standards may be used for either revision.

For use as a certified reference standard in ICP applications. Can be diluted with other standards to working concentrations.

Quality Control Standard [†]			
IV-19		Matrix: HNO ₃ / HF Dilution 1:100	
IV-19-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard [†]			
IV-21		Matrix: HNO ₃ / HF Dilution 1:100	
IV-21-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
As	100	Mo	100
Be	100	Ni	100
Ca	100	Pb	100
Cd	100	Sb	100
Co	100	Se	100
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	Tl	100
Li	100	V	100
Mg	100	Zn	100
Mn	100		

Quality Control Standard [†]			
IV-26		Matrix: HNO ₃ / HF Dilution 1:100	
IV-26-125ML IV-26-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Ti	100
Cu	100	Tl	100
Fe	100	V	100
K	1,000	Zn	100

Quality Control Standard [†]			
IV-28		Matrix: HNO ₃ / HF Dilution 1:100	
IV-28-125ML IV-28-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	100	Mg	100
Al	100	Mn	100
As	100	Mo	100
B	100	Na	100
Ba	100	Ni	100
Be	100	Pb	100
Ca	100	Sb	100
Cd	100	Se	100
Co	100	Si	50
Cr	100	Sr	100
Cu	100	Ti	100
Fe	100	Tl	100
K	1,000	V	100
Li	100	Zn	100

[†]Manufactured from in-house Second Source concentrates, whenever possible.

Standards for Method 200.8 are designed for use with ICP-MS. Custom EPA standards are available upon request.

Rev. 4.4 & 5.4 Calibration – See individual products for recommended revisions.

Calibration Standard			
2008CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
2008CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Mo	20	Sb	20

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS calibration standard in EPA Method 200.8.

Calibration Standard			
2008CAL-2		Matrix: HNO ₃ Dilution 1:100	
2008CAL-2-125ML		Volume: 125 mL	
2008CAL-2-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	Mn	20
Al	20	Ni	20
As	20	Pb	20
Ba	20	Se	20
Be	20	Th	20
Cd	20	Tl	20
Co	20	U	20
Cr	20	V	20
Cu	20	Zn	20

Designed for Rev. 4.4.

For use as ICP-MS calibration standard in EPA Method 200.8.

Calibration Standard	
WW-MSCAL-1	Matrix: HNO ₃ Dilution 1:1,000
WW-MSCAL-1-125ML	Volume: 125 mL
Analyte	µg/mL
Hg	5

Designed for Rev. 5.4.

For use as ICP-MS calibration standard in EPA Method 200.8. Can be combined with WW-MSCAL-2 at working concentrations if Au is used to stabilize Hg. Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Calibration Standard			
WW-MSCAL-2		Matrix: HNO ₃ Dilution 1:100	
WW-MSCAL-2-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	Mn	20
Al	20	Ni	20
As	20	Pb	20
Ba	20	Se	100
Be	20	Th	20
Cd	20	Tl	20
Co	20	U	20
Cr	20	V	20
Cu	20	Zn	20

Designed for Rev. 5.4.

For use as ICP-MS calibration standard in EPA Method 200.8. Uranium is isotopically depleted. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Method 200.8

Standards for Method 200.8 are designed for use with ICP-MS. Custom EPA standards are available upon request.

Rev. 4.4 & 5.4 Calibration – See individual products for recommended revisions.

Mercury Standard	
MSHG-1PPM	Matrix: HCl
MSHG-1PPM-125ML MSHG-1PPM-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Hg	1

Mercury Standard	
IV-STOCK-73	Matrix: 10% v/v HCl
IV-STOCK-73-125ML	Volume: 125 mL
Analyte	µg/L*
Hg	100

Mercury Standard	
IV-STOCK-72	Matrix: 7% v/v HNO ₃
IV-STOCK-72-125ML	Volume: 125 mL
Analyte	µg/L*
Hg	100

*Parts per billion

Rev. 4.4 & 5.4 Internal Standards

Internal Standard			
2008ISS		Matrix: HNO ₃ Dilution 1:100 to 1:1,000	
2008ISS-125ML 2008ISS-500ML		Volume: 125 mL Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	20	Tb	20
In	20	Y	20
Sc	20		

Designed for Rev. 4.4 and 5.4. Recommended working level is 200 µg/L for Rev. 4.4; 20-200 µg/L for Rev. 5.4. Use this solution with CGAUN1 for Rev. 5.4 if Hg is to be determined by direct analysis.

Mercury Preservation Solution	
CGAUN1	Matrix: HNO ₃ Dilution 1:100
CGAUN1-30ML CGAUN1-125ML CGAUN1-500ML	Volume: 30 mL Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Au	1,000

Designed for Rev. 5.4. Add an aliquot of this solution to 2008ISS, sufficient to provide a concentration of 100 µg/L in the final dilution of all blanks, calibration standards, and samples.

Rev. 4.4 & 5.4 Quality Controls

Quality Control Standard†			
QCP-QCS-3		Matrix: HNO ₃ Dilution 1:100	
QCP-QCS-3-125ML		Volume: 125 mL	
QCP-QCS-3-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Mn	10
Al	10	Mo	10
As	10	Na	10
Ba	10	Ni	10
Be	10	Pb	10
Ca	10	Sb	10
Cd	10	Se	50
Co	10	Th	10
Cr	10	Tl	10
Cu	10	U	10
Fe	10	V	10
K	10	Zn	10
Mg	10		

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS quality control standard in EPA Method 200.8. Uranium is isotopically depleted. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Quality Control Standard†	
QCP-QCS-4	Matrix: HNO ₃ Dilution 1:100
QCP-QCS-4-125ML	Volume: 125 mL
Analyte	µg/mL
Hg	5

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS mercury (Hg) quality control standard in EPA Method 200.8. Can be combined with QCP-QCS-3 at working concentrations if Au is used to stabilize Hg, though trace chloride from Au may cause Ag stability problems. Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions, and the Silver Chemical Stability article for more information about Ag stability in the presence of chloride.

†Manufactured from in-house Second Source concentrates, whenever possible.

Rev. 4.4 & 5.4 Tuning

Tuning Solution			
2008TS		Matrix: HNO ₃ Dilution 1:100 to 1:1,000	
2008TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Be	10	Mg	10
Co	10	Pb	10
In	10		

Designed for Rev. 4.4 and 5.4.

For use as ICP-MS tuning solution in EPA Method 200.8.

Method 1311

For use in EPA Toxicity Characteristic Leachate Procedure (TCLP). Custom EPA standards are available upon request.

TCLP Hg Standard	
TCLP-AA-HG	Matrix: HNO ₃ Dilution: As required
TCLP-AA-HG-125ML	Volume: 125 mL
Analyte	µg/mL
Hg	20

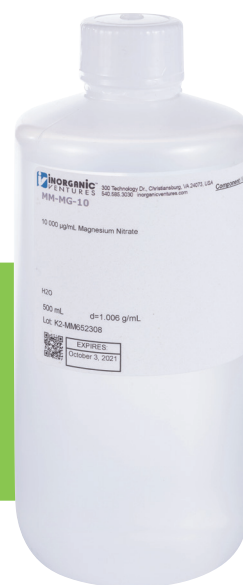
For use in EPA Toxicity Characteristic Leachate Procedure (TCLP).

TCLP Standard			
TCLP-1REV		Matrix: HNO ₃ Dilution: As required	
TCLP-1REV-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	25	Cr	25
As	25	Pb	25
Ba	500	Se	5
Cd	5		

For use in EPA Toxicity Characteristic Leachate Procedure (TCLP).

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Standards for Method 6020 are designed for use with ICP-MS. Custom EPA standards are available upon request.

CLP-M Version 8

Calibration Standard			
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Be	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	Tl	20
Cu	20	V	20
Fe	20	Zn	20

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Interference Check Standard			
6020ICS-8A		Matrix: HNO ₃ Dilution 1:10	
6020ICS-8A-125ML		Volume: 125 mL	
6020ICS-8A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1,000	Mg	1,000
C	2,000	Mo	20
Ca	3,000	Na	2,500
Cl-	18,000	P	1,000
Fe	2,500	S	1,000
K	1,000	Ti	20

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution A.

Internal Standard			
6020ISS		Matrix: HNO ₃ Dilution 1:100	
6020ISS-125ML		Volume: 125 mL	
6020ISS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
⁶Li	10	Y	10

Internal standard for ICP-MS in all versions of EPA Method 6020.

Spike Standard – Soil			
6020SPK-S		Matrix: HNO ₃ Dilution 1:100	
6020SPK-S-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Be	5	Se	5
Cd	10	Tl	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Matrix spike for solid samples.

Standards for Method 6020 are designed for use with ICP-MS. Custom EPA standards are available upon request.

CLP-M Version 8

Spike Standard – Water			
6020SPK-W		Matrix: HNO ₃ Dilution 1:100	
6020SPK-W-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Be	5	Sb	20
Cd	5	Se	5
Co	20	Tl	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

Matrix spike for aqueous samples.

Tuning Solution			
6020TS		Matrix: HNO ₃ Dilution 1:100	
6020TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	10	Li	10
In	10	Tl	10

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to Tl. Certified reference material that may also be used for calibration.

CLP-M Version 9

Calibration Standard			
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Be	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	Tl	20
Cu	20	V	20
Fe	20	Zn	20

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Interference Check Standard			
6020ICS-9A		Matrix: HNO ₃ Dilution 1:10	
6020ICS-9A-125ML		Volume: 125 mL	
6020ICS-9A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1,000	Mg	1,000
C	2,000	Mo	20
Ca	3,000	Na	2,500
Cl-	21,215	P	1,000
Fe	2,500	S	1,000
K	1,000	Ti	20

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution A. Suitable for analyses with higher chloride contents.

Interference Check Standard			
6020ICS-9B		Matrix: HNO ₃ Dilution 1:100	
6020ICS-9B-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Cd	10	Se	10
Co	20	V	20
Cr	20	Zn	10
Cu	20		

For evaluating ICP-MS interferences and corrections in EPA Method 6020A or 6020B. Based upon 6020A Revision 1 Solution B. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Spike Standard – Water			
6020SPK-W		Matrix: HNO ₃ Dilution 1:100	
6020SPK-W-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Be	5	Sb	20
Cd	5	Se	5
Co	20	Tl	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

Matrix spike for aqueous samples.

Internal Standard			
6020ISS		Matrix: HNO ₃ Dilution 1:100	
6020ISS-125ML		Volume: 125 mL	
6020ISS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
⁶ Li	10	Y	10

Internal standard for ICP-MS in all versions of EPA Method 6020.

Tuning Solution			
6020TS		Matrix: HNO ₃ Dilution 1:100	
6020TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	10	Li	10
In	10	Tl	10

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to Tl. Certified reference material that may also be used for calibration.

Spike Standard – Soil			
6020SPK-S		Matrix: HNO ₃ Dilution 1:100	
6020SPK-S-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Be	5	Se	5
Cd	10	Tl	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Matrix spike for solid samples.

REV. 0

Calibration Standard			
6020CAL-1		Matrix: HNO ₃ / HF Dilution 1:100	
6020CAL-1-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	20	K	20
Al	20	Mg	20
As	20	Mn	20
Ba	20	Na	20
Be	20	Ni	20
Ca	20	Pb	20
Cd	20	Sb	20
Co	20	Se	20
Cr	20	Tl	20
Cu	20	V	20
Fe	20	Zn	20

For use as ICP-MS calibration standard in EPA Method 6020. Does not contain mercury (Hg). Please see the Mercury Chemical Stability article for more information regarding accurate Hg analyses in multi-element solutions.

Internal Standard			
6020ISS		Matrix: HNO ₃ Dilution 1:100	
6020ISS-125ML		Volume: 125 mL	
6020ISS-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Bi	10	Rh	10
Ho	10	Sc	10
In	10	Tb	10
⁶ Li	10	Y	10

Internal standard for ICP-MS in all versions of EPA Method 6020.

Interference Check Standard			
6020ICS-0A		Matrix: HNO ₃ Dilution 1:10	
6020ICS-0A-125ML		Volume: 125 mL	
6020ICS-0A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Al	1,000	Mg	1,000
C	2,000	Mo	20
Ca	1,000	Na	1,000
Cl-	10,000	P	1,000
Fe	1,000	S	1,000
K	1,000	Ti	20

For evaluating ICP-MS interferences and corrections in EPA Method 6020. Based upon Revision 0 Solution A.

Interference Check Standard			
6020ICS-0B		Matrix: HNO ₃ Dilution 1:100	
6020ICS-0B-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	2	Cu	2
As	2	Mn	2
Cd	2	Ni	2
Co	2	Zn	2
Cr	2		

For evaluating ICP-MS interferences and corrections in EPA Method 6020. Based upon Revision 0 Solution B.

Spike Standard – Soil			
6020SPK-S		Matrix: HNO ₃ Dilution 1:100	
6020SPK-S-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	10	Ni	25
As	10	Pb	20
Ba	50	Sb	20
Be	5	Se	5
Cd	10	Tl	5
Co	20	V	30
Cr	50	Zn	50
Cu	50		

Matrix spike for solid samples.

REV. 0

Spike Standard – Water			
6020SPK-W		Matrix: HNO ₃ Dilution 1:100	
6020SPK-W-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Ag	5	Mn	20
As	10	Ni	20
Ba	50	Pb	10
Be	5	Sb	20
Cd	5	Se	5
Co	20	Tl	5
Cr	20	V	20
Cu	20	Zn	50
Fe	100		

Matrix spike for aqueous samples.

Tuning Solution			
6020TS		Matrix: HNO ₃ Dilution 1:100	
6020TS-125ML		Volume: 125 mL	
Analyte	µg/mL	Analyte	µg/mL
Co	10	Li	10
In	10	Tl	10

For use as general tuning solution suitable for numerous ICP-MS designs and models. Covers mass range from Li to Tl. Certified reference material that may also be used for calibration.



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