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## ICP Single and Multi-Component Standards

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# ICP Single and Multi-Component Standards

We offer a broad range of ISO 17034:2016 certified single and multi-component ICP-OES standards. The accuracy of all standards is verified against NIST Spectrometric Standard Solutions where available (otherwise against an ISO 17034 second source Certified Reference Material). We offer single-component standards in the broadest range of matrices available. You can locate the element alphabetically by name, or search by part number. The part number is based upon concentration (100, 1,000, or 10,000 (referred to as 10M)); the last 2 digits of the associated NIST SRM 3100 series; and the matrix: HNO<sub>3</sub> (-1), HCl (-2), HNO<sub>3</sub> + HF (-3), H<sub>2</sub>O (-4), other options (-5 and up). Thus a 1,000 µg/mL solution of aluminum in nitric acid is 10001-1; a 10,000 µg/mL solution of tin in nitric and hydrofluoric acids is 10M61-3; and a 100 µg/mL solution of gold in hydrochloric acid is 100-21-2. The aluminum solution is traceable to the NIST SRM 3101, the tin to NIST SRM 3161, and the gold to NIST SRM 3121.

ICP Single-Component Standards				
Component	Concentration	Matrix	Volume	Part #
Aluminum	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-1-1-100
Aluminum	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-1-1-250
Aluminum	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-1-1-500
Aluminum	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10001-1-50
Aluminum	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10001-1-100
Aluminum	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10001-1-250
Aluminum	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10001-1-500
Aluminum	1,000 µg/mL	2% HCl	100 mL	10001-2-100
Aluminum	1,000 µg/mL	2% HCl	250 mL	10001-2-250
Aluminum	1,000 µg/mL	2% HCl	500 mL	10001-2-500
Aluminum	10,000 µg/mL	10% HNO <sub>3</sub>	100 mL	10M1-1-100
Aluminum	10,000 µg/mL	10% HNO <sub>3</sub>	250 mL	10M1-1-250
Aluminum	10,000 µg/mL	10% HNO <sub>3</sub>	500 mL	10M1-1-500
Aluminum	10,000 µg/mL	10% HCl	100 mL	10M1-2-100
Aluminum	10,000 µg/mL	10% HCl	250 mL	10M1-2-250
Aluminum	10,000 µg/mL	10% HCl	500 mL	10M1-2-500
Antimony	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-2-3-100
Antimony	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-2-3-250
Antimony	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-2-3-500
Antimony	1,000 µg/mL	20% HCl	50 mL	10002-2-50
Antimony	1,000 µg/mL	20% HCl	100 mL	10002-2-100
Antimony	1,000 µg/mL	20% HCl	250 mL	10002-2-250
Antimony	1,000 µg/mL	20% HCl	500 mL	10002-2-500
Antimony	1,000 µg/mL	5% HNO <sub>3</sub> + 0.1% HF	50 mL	10002-3-50
Antimony	1,000 µg/mL	5% HNO <sub>3</sub> + 0.1% HF	100 mL	10002-3-100
Antimony	1,000 µg/mL	5% HNO <sub>3</sub> + 0.1% HF	250 mL	10002-3-250
Antimony	1,000 µg/mL	5% HNO <sub>3</sub> + 0.1% HF	500 mL	10002-3-500
Antimony	1,000 µg/mL	5% Tartaric Acid + 2% HNO <sub>3</sub>	100 mL	10002-8-100
Antimony	1,000 µg/mL	5% Tartaric Acid + 2% HNO <sub>3</sub>	250 mL	10002-8-250
Antimony	1,000 µg/mL	5% Tartaric Acid + 2% HNO <sub>3</sub>	500 mL	10002-8-500
Antimony	10,000 µg/mL	50% HCl	100 mL	10M2-2-100
Antimony	10,000 µg/mL	50% HCl	250 mL	10M2-2-250
Antimony	10,000 µg/mL	50% HCl	500 mL	10M2-2-500
Antimony	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	100 mL	10M2-3-100
Antimony	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	250 mL	10M2-3-250
Antimony	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	500 mL	10M2-3-500
Arsenic	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-3-1-100
Arsenic	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-3-1-250
Arsenic	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-3-1-500
Arsenic	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10003-1-50
Arsenic	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10003-1-100

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Arsenic	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10003-1-250
Arsenic	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10003-1-500
Arsenic	1,000 µg/mL	2% HCl	100 mL	10003-2-100
Arsenic	1,000 µg/mL	2% HCl	250 mL	10003-2-250
Arsenic	1,000 µg/mL	2% HCl	500 mL	10003-2-500
Arsenic	10,000 µg/mL	20% HNO <sub>3</sub>	100 mL	10M3-1-100
Arsenic	10,000 µg/mL	20% HNO <sub>3</sub>	250 mL	10M3-1-250
Arsenic	10,000 µg/mL	20% HNO <sub>3</sub>	500 mL	10M3-1-500
Arsenic	10,000 µg/mL	10% HCl	100 mL	10M3-2-100
Arsenic	10,000 µg/mL	10% HCl	250 mL	10M3-2-250
Arsenic	10,000 µg/mL	10% HCl	500 mL	10M3-2-500
Barium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-4-1-100
Barium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-4-1-250
Barium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-4-1-500
Barium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10004-1-50
Barium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10004-1-100
Barium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10004-1-250
Barium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10004-1-500
Barium	1,000 µg/mL	2% HCl	100 mL	10004-2-100
Barium	1,000 µg/mL	2% HCl	250 mL	10004-2-250
Barium	1,000 µg/mL	2% HCl	500 mL	10004-2-500
Barium	10,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10M4-1-100
Barium	10,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10M4-1-250
Barium	10,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10M4-1-500
Barium	10,000 µg/mL	5% HCl	100 mL	10M4-2-100
Barium	10,000 µg/mL	5% HCl	250 mL	10M4-2-250
Barium	10,000 µg/mL	5% HCl	500 mL	10M4-2-500
Beryllium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-5-1-100
Beryllium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-5-1-250
Beryllium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-5-1-500
Beryllium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10005-1-50
Beryllium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10005-1-100
Beryllium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10005-1-250
Beryllium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10005-1-500
Beryllium	1,000 µg/mL	2% HCl	100 mL	10005-2-100
Beryllium	1,000 µg/mL	2% HCl	250 mL	10005-2-250
Beryllium	1,000 µg/mL	2% HCl	500 mL	10005-2-500
Beryllium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M5-1-100
Beryllium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M5-1-250
Beryllium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M5-1-500
Beryllium	10,000 µg/mL	10% HCl	100 mL	10M5-2-100
Bismuth	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-6-1-100
Bismuth	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-6-1-250
Bismuth	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-6-1-500
Bismuth	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10006-1-50
Bismuth	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10006-1-100
Bismuth	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10006-1-250
Bismuth	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10006-1-500
Bismuth	1,000 µg/mL	2% HCl	50 mL	10006-2-50
Bismuth	1,000 µg/mL	2% HCl	100 mL	10006-2-100
Bismuth	1,000 µg/mL	2% HCl	250 mL	10006-2-250

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Bismuth	1,000 µg/mL	2% HCl	500 mL	10006-2-500
Bismuth	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M6-1-100
Bismuth	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M6-1-250
Bismuth	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M6-1-500
Boron	100 µg/mL	H <sub>2</sub> O	100 mL	100-7-4-100
Boron	100 µg/mL	H <sub>2</sub> O	250 mL	100-7-4-250
Boron	1,000 µg/mL	H <sub>2</sub> O	50 mL	10007-4-50
Boron	1,000 µg/mL	H <sub>2</sub> O	100 mL	10007-4-100
Boron	1,000 µg/mL	H <sub>2</sub> O	250 mL	10007-4-250
Boron	1,000 µg/mL	H <sub>2</sub> O	500 mL	10007-4-500
Boron	5,000 µg/mL	H <sub>2</sub> O	100 mL	5M7-4-100
Boron	5,000 µg/mL	H <sub>2</sub> O	250 mL	5M7-4-250
Boron	5,000 µg/mL	H <sub>2</sub> O	500 mL	5M7-4-500
Boron	10,000 µg/mL	2% NH <sub>4</sub> OH	100 mL	10M7-7-100
Boron	10,000 µg/mL	2% NH <sub>4</sub> OH	250 mL	10M7-7-250
Boron	10,000 µg/mL	2% NH <sub>4</sub> OH	500 mL	10M7-7-500
Cadmium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-8-1-100
Cadmium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-8-1-250
Cadmium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-8-1-500
Cadmium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10008-1-50
Cadmium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10008-1-100
Cadmium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10008-1-250
Cadmium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10008-1-500
Cadmium	1,000 µg/mL	2% HCl	50 mL	10008-2-50
Cadmium	1,000 µg/mL	2% HCl	100 mL	10008-2-100
Cadmium	1,000 µg/mL	2% HCl	250 mL	10008-2-250
Cadmium	1,000 µg/mL	2% HCl	500 mL	10008-2-500
Cadmium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M8-1-100
Cadmium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M8-1-250
Cadmium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M8-1-500
Cadmium	10,000 µg/mL	10% HCl	100 mL	10M8-2-100
Cadmium	10,000 µg/mL	10% HCl	500 mL	10M8-2-500
Calcium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-9-1-100
Calcium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-9-1-250
Calcium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-9-1-500
Calcium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	10009-1-50
Calcium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	10009-1-100
Calcium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	10009-1-250
Calcium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	10009-1-500
Calcium	1,000 µg/mL	2% HCl	100 mL	10009-2-100
Calcium	1,000 µg/mL	2% HCl	250 mL	10009-2-250
Calcium	1,000 µg/mL	2% HCl	500 mL	10009-2-500
Calcium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M9-1-100
Calcium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M9-1-250
Calcium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M9-1-500
Calcium	10,000 µg/mL	5% HCl	100 mL	10M9-2-100
Calcium	10,000 µg/mL	5% HCl	250 mL	10M9-2-250
Calcium	10,000 µg/mL	5% HCl	500 mL	10M9-2-500
Carbon	1,000 µg/mL	H <sub>2</sub> O	100 mL	100071-4-100
Carbon	1,000 µg/mL	H <sub>2</sub> O	250 mL	100071-4-250
Carbon	1,000 µg/mL	H <sub>2</sub> O	500 mL	100071-4-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Carbon	1,000 µg/mL	H <sub>2</sub> O	100 mL	100071-9-100
Carbon	1,000 µg/mL	H <sub>2</sub> O	250 mL	100071-9-250
Carbon	1,000 µg/mL	H <sub>2</sub> O	500 mL	100071-9-500
Cerium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-10-1-100
Cerium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-10-1-250
Cerium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-10-1-500
Cerium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100010-1-50
Cerium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100010-1-100
Cerium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100010-1-250
Cerium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100010-1-500
Cerium	1,000 µg/mL	2% HCl	100 mL	100010-2-100
Cerium	1,000 µg/mL	2% HCl	250 mL	100010-2-250
Cerium	1,000 µg/mL	2% HCl	500 mL	100010-2-500
Cerium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M10-1-100
Cerium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M10-1-250
Cerium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M10-1-500
Cerium	10,000 µg/mL	10% HCl	100 mL	10M10-2-100
Cerium	10,000 µg/mL	10% HCl	250 mL	10M10-2-250
Cerium	10,000 µg/mL	10% HCl	500 mL	10M10-2-500
Cesium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-11-1-100
Cesium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-11-1-250
Cesium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100011-1-50
Cesium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100011-1-100
Cesium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100011-1-250
Cesium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100011-1-500
Cesium	1,000 µg/mL	1% HCl	100 mL	100011-2-100
Cesium	1,000 µg/mL	1% HCl	250 mL	100011-2-250
Cesium	1,000 µg/mL	1% HCl	500 mL	100011-2-500
Cesium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M11-1-100
Cesium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M11-1-250
Cesium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M11-1-500
Cesium	10,000 µg/mL	1% HCl	100 mL	10M11-2-100
Cesium	10,000 µg/mL	1% HCl	250 mL	10M11-2-250
Cesium	10,000 µg/mL	1% HCl	500 mL	10M11-2-500
Chromium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-12-1-100
Chromium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-12-1-250
Chromium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-12-1-500
Chromium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100012-1-50
Chromium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100012-1-100
Chromium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100012-1-250
Chromium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100012-1-500
Chromium	1,000 µg/mL	2% HCl	50 mL	100012-2-50
Chromium	1,000 µg/mL	2% HCl	100 mL	100012-2-100
Chromium	1,000 µg/mL	2% HCl	250 mL	100012-2-250
Chromium	1,000 µg/mL	2% HCl	500 mL	100012-2-500
Chromium	10,000 µg/mL	10% HNO <sub>3</sub>	100 mL	10M12-1-100
Chromium	10,000 µg/mL	10% HNO <sub>3</sub>	250 mL	10M12-1-250
Chromium	10,000 µg/mL	10% HNO <sub>3</sub>	500 mL	10M12-1-500
Chromium	10,000 µg/mL	10% HCl	100 mL	10M12-2-100
Chromium	10,000 µg/mL	10% HCl	250 mL	10M12-2-250
Chromium	10,000 µg/mL	10% HCl	500 mL	10M12-2-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Cobalt	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-13-1-100
Cobalt	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-13-1-250
Cobalt	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-13-1-500
Cobalt	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100013-1-50
Cobalt	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100013-1-100
Cobalt	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100013-1-250
Cobalt	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100013-1-500
Cobalt	1,000 µg/mL	2% HCl	100 mL	100013-2-100
Cobalt	1,000 µg/mL	2% HCl	250 mL	100013-2-250
Cobalt	1,000 µg/mL	2% HCl	500 mL	100013-2-500
Cobalt	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M13-1-100
Cobalt	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M13-1-250
Cobalt	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M13-1-500
Cobalt	10,000 µg/mL	10% HCl	100 mL	10M13-2-100
Cobalt	10,000 µg/mL	10% HCl	250 mL	10M13-2-250
Cobalt	10,000 µg/mL	10% HCl	500 mL	10M13-2-500
Copper	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-14-1-100
Copper	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-14-1-250
Copper	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-14-1-500
Copper	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100014-1-50
Copper	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100014-1-100
Copper	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100014-1-250
Copper	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100014-1-500
Copper	1,000 µg/mL	2% HCl	100 mL	100014-2-100
Copper	1,000 µg/mL	2% HCl	250 mL	100014-2-250
Copper	1,000 µg/mL	2% HCl	500 mL	100014-2-500
Copper	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M14-1-100
Copper	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M14-1-250
Copper	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M14-1-500
Copper	10,000 µg/mL	10% HCl	100 mL	10M14-2-100
Copper	10,000 µg/mL	10% HCl	250 mL	10M14-2-250
Copper	10,000 µg/mL	10% HCl	500 mL	10M14-2-500
Dysprosium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-15-1-100
Dysprosium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-15-1-250
Dysprosium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100015-1-50
Dysprosium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100015-1-100
Dysprosium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100015-1-250
Dysprosium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100015-1-500
Dysprosium	1,000 µg/mL	2% HCl	100 mL	100015-2-100
Dysprosium	1,000 µg/mL	2% HCl	250 mL	100015-2-250
Dysprosium	1,000 µg/mL	2% HCl	500 mL	100015-2-500
Dysprosium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M15-1-100
Dysprosium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M15-1-250
Dysprosium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M15-1-500
Dysprosium	10,000 µg/mL	4% HCl	100 mL	10M15-2-100
Dysprosium	10,000 µg/mL	4% HCl	250 mL	10M15-2-250
Dysprosium	10,000 µg/mL	4% HCl	500 mL	10M15-2-500
Erbium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-16-1-100
Erbium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100016-1-50
Erbium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100016-1-100
Erbium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100016-1-250

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Erbium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100016-1-500
Erbium	1,000 µg/mL	2% HCl	100 mL	100016-2-100
Erbium	1,000 µg/mL	2% HCl	250 mL	100016-2-250
Erbium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M16-1-100
Erbium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M16-1-250
Erbium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M16-1-500
Erbium	10,000 µg/mL	4% HCl	100 mL	10M16-2-100
Europium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-17-1-100
Europium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100017-1-100
Europium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100017-1-250
Europium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100017-1-500
Europium	1,000 µg/mL	2% HCl	50 mL	100017-2-50
Europium	1,000 µg/mL	2% HCl	100 mL	100017-2-100
Europium	1,000 µg/mL	2% HCl	250 mL	100017-2-250
Europium	1,000 µg/mL	2% HCl	500 mL	100017-2-500
Europium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M17-1-100
Europium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M17-1-250
Europium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M17-1-500
Europium	10,000 µg/mL	4% HCl	100 mL	10M17-2-100
Gadolinium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-18-1-100
Gadolinium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-18-1-250
Gadolinium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-18-1-500
Gadolinium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100018-1-50
Gadolinium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100018-1-100
Gadolinium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100018-1-250
Gadolinium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100018-1-500
Gadolinium	1,000 µg/mL	2% HCl	100 mL	100018-2-100
Gadolinium	1,000 µg/mL	2% HCl	250 mL	100018-2-250
Gadolinium	1,000 µg/mL	2% HCl	500 mL	100018-2-500
Gadolinium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M18-1-100
Gadolinium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M18-1-250
Gadolinium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M18-1-500
Gadolinium	10,000 µg/mL	4% HCl	100 mL	10M18-2-100
Gadolinium	10,000 µg/mL	4% HCl	250 mL	10M18-2-250
Gadolinium	10,000 µg/mL	4% HCl	500 mL	10M18-2-500
Gallium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-19-1-100
Gallium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-19-1-250
Gallium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-19-1-500
Gallium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100019-1-50
Gallium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100019-1-100
Gallium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100019-1-250
Gallium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100019-1-500
Gallium	1,000 µg/mL	2% HCl	100 mL	100019-2-100
Gallium	1,000 µg/mL	2% HCl	250 mL	100019-2-250
Gallium	1,000 µg/mL	2% HCl	500 mL	100019-2-500
Gallium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M19-1-100
Gallium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M19-1-250
Gallium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M19-1-500
Gallium	10,000 µg/mL	10% HCl	100 mL	10M19-2-100
Gallium	10,000 µg/mL	10% HCl	250 mL	10M19-2-250
Gallium	10,000 µg/mL	10% HCl	500 mL	10M19-2-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Germanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-20-3-100
Germanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-20-3-250
Germanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-20-3-500
Germanium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100020-1-50
Germanium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100020-1-100
Germanium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100020-1-250
Germanium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100020-1-500
Germanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100020-3-50
Germanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100020-3-100
Germanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100020-3-250
Germanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100020-3-500
Germanium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M20-1-100
Germanium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M20-1-250
Germanium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M20-1-500
Germanium	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	100 mL	10M20-3-100
Germanium	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	250 mL	10M20-3-250
Germanium	10,000 µg/mL	10% HNO <sub>3</sub> + 2% HF	500 mL	10M20-3-500
Gold	100 µg/mL	2% HCl	100 mL	100-21-2-100
Gold	100 µg/mL	2% HCl	250 mL	100-21-2-250
Gold	100 µg/mL	2% HCl	500 mL	100-21-2-500
Gold	1,000 µg/mL	2% HCl	50 mL	100021-2-50
Gold	1,000 µg/mL	2% HCl	100 mL	100021-2-100
Gold	1,000 µg/mL	2% HCl	250 mL	100021-2-250
Gold	1,000 µg/mL	2% HCl	500 mL	100021-2-500
Gold	10,000 µg/mL	10% HCl	100 mL	10M21-2-100
Gold	10,000 µg/mL	10% HCl	250 mL	10M21-2-250
Gold	10,000 µg/mL	10% HCl	500 mL	10M21-2-500
Hafnium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-22-3-100
Hafnium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-22-3-250
Hafnium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-22-3-500
Hafnium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100022-3-50
Hafnium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100022-3-100
Hafnium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100022-3-250
Hafnium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100022-3-500
Hafnium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	100 mL	10M22-3-100
Hafnium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	250 mL	10M22-3-250
Hafnium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	500 mL	10M22-3-500
Holmium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-23-1-100
Holmium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-23-1-250
Holmium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100023-1-50
Holmium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100023-1-100
Holmium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100023-1-250
Holmium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100023-1-500
Holmium	1,000 µg/mL	2% HCl	100 mL	100023-2-100
Holmium	1,000 µg/mL	2% HCl	250 mL	100023-2-250
Holmium	1,000 µg/mL	2% HCl	500 mL	100023-2-500
Holmium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M23-1-100
Holmium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M23-1-250
Holmium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M23-1-500
Holmium	10,000 µg/mL	4% HCl	100 mL	10M23-2-100
Holmium	10,000 µg/mL	4% HCl	250 mL	10M23-2-250



**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Indium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-24-1-100
Indium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-24-1-250
Indium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-24-1-500
Indium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100024-1-50
Indium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100024-1-100
Indium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100024-1-250
Indium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100024-1-500
Indium	1,000 µg/mL	2% HCl	100 mL	100024-2-100
Indium	1,000 µg/mL	2% HCl	250 mL	100024-2-250
Indium	1,000 µg/mL	2% HCl	500 mL	100024-2-500
Indium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M24-1-100
Indium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M24-1-250
Indium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M24-1-500
Indium	10,000 µg/mL	10% HCl	100 mL	10M24-2-100
Indium	10,000 µg/mL	10% HCl	250 mL	10M24-2-250
Indium	10,000 µg/mL	10% HCl	500 mL	10M24-2-500
Iridium	100 µg/mL	2% HCl	100 mL	100-25-2-100
Iridium	100 µg/mL	2% HCl	250 mL	100-25-2-250
Iridium	100 µg/mL	2% HCl	500 mL	100-25-2-500
Iridium	1,000 µg/mL	2% HCl	50 mL	100025-2-50
Iridium	1,000 µg/mL	2% HCl	100 mL	100025-2-100
Iridium	1,000 µg/mL	2% HCl	250 mL	100025-2-250
Iridium	1,000 µg/mL	2% HCl	500 mL	100025-2-500
Iron	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-26-1-100
Iron	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-26-1-250
Iron	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-26-1-500
Iron	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100026-1-50
Iron	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100026-1-100
Iron	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100026-1-250
Iron	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100026-1-500
Iron	1,000 µg/mL	2% HCl	100 mL	100026-2-100
Iron	1,000 µg/mL	2% HCl	250 mL	100026-2-250
Iron	1,000 µg/mL	2% HCl	500 mL	100026-2-500
Iron	10,000 µg/mL	10% HNO <sub>3</sub>	100 mL	10M26-1-100
Iron	10,000 µg/mL	10% HNO <sub>3</sub>	250 mL	10M26-1-250
Iron	10,000 µg/mL	10% HNO <sub>3</sub>	500 mL	10M26-1-500
Iron	10,000 µg/mL	10% HCl	100 mL	10M26-2-100
Iron	10,000 µg/mL	10% HCl	250 mL	10M26-2-250
Iron	10,000 µg/mL	10% HCl	500 mL	10M26-2-500
Lanthanum	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-27-1-100
Lanthanum	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-27-1-250
Lanthanum	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-27-1-500
Lanthanum	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100027-1-50
Lanthanum	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100027-1-100
Lanthanum	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100027-1-250
Lanthanum	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100027-1-500
Lanthanum	1,000 µg/mL	2% HCl	50 mL	100027-2-50
Lanthanum	1,000 µg/mL	2% HCl	100 mL	100027-2-100
Lanthanum	1,000 µg/mL	2% HCl	250 mL	100027-2-250
Lanthanum	1,000 µg/mL	2% HCl	500 mL	100027-2-500
Lanthanum	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M27-1-100

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Lanthanum	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M27-1-250
Lanthanum	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M27-1-500
Lanthanum	10,000 µg/mL	2% HCl	100 mL	10M27-2-100
Lanthanum	10,000 µg/mL	2% HCl	250 mL	10M27-2-250
Lanthanum	10,000 µg/mL	2% HCl	500 mL	10M27-2-500
Lead	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-28-1-100
Lead	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-28-1-250
Lead	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-28-1-500
Lead	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100028-1-50
Lead	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100028-1-100
Lead	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100028-1-250
Lead	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100028-1-500
Lead	1,000 µg/mL	2% HCl	100 mL	100028-2-100
Lead	1,000 µg/mL	2% HCl	250 mL	100028-2-250
Lead	1,000 µg/mL	2% HCl	500 mL	100028-2-500
Lead	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M28-1-100
Lead	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M28-1-250
Lead	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M28-1-500
Lithium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-29-1-100
Lithium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-29-1-250
Lithium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-29-1-500
Lithium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100029-1-50
Lithium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100029-1-100
Lithium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100029-1-250
Lithium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100029-1-500
Lithium	1,000 µg/mL	1% HCl	100 mL	100029-2-100
Lithium	1,000 µg/mL	1% HCl	250 mL	100029-2-250
Lithium	1,000 µg/mL	1% HCl	500 mL	100029-2-500
Lithium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M29-1-100
Lithium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M29-1-250
Lithium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M29-1-500
Lithium	10,000 µg/mL	1% HCl	100 mL	10M29-2-100
Lithium	10,000 µg/mL	1% HCl	250 mL	10M29-2-250
Lithium	10,000 µg/mL	1% HCl	500 mL	10M29-2-500
Lithium 6 Isotope	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100029-6I-50
Lithium 6 Isotope	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100029-6I-100
Lithium 6 Isotope	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100029-6I-250
Lithium 6 Isotope	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100029-6I-500
Lutetium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-30-1-100
Lutetium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-30-1-250
Lutetium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-30-1-500
Lutetium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100030-1-50
Lutetium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100030-1-100
Lutetium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100030-1-250
Lutetium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100030-1-500
Lutetium	1,000 µg/mL	2% HCl	100 mL	100030-2-100
Lutetium	1,000 µg/mL	2% HCl	250 mL	100030-2-250
Lutetium	1,000 µg/mL	2% HCl	500 mL	100030-2-500
Lutetium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M30-1-100
Lutetium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M30-1-250
Lutetium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M30-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Lutetium	10,000 µg/mL	4% HCl	100 mL	10M30-2-100
Lutetium	10,000 µg/mL	4% HCl	250 mL	10M30-2-250
Lutetium	10,000 µg/mL	4% HCl	500 mL	10M30-2-500
Magnesium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-31-1-100
Magnesium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-31-1-250
Magnesium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-31-1-500
Magnesium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100031-1-50
Magnesium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100031-1-100
Magnesium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100031-1-250
Magnesium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100031-1-500
Magnesium	1,000 µg/mL	2% HCl	100 mL	100031-2-100
Magnesium	1,000 µg/mL	2% HCl	250 mL	100031-2-250
Magnesium	1,000 µg/mL	2% HCl	500 mL	100031-2-500
Magnesium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M31-1-100
Magnesium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M31-1-250
Magnesium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M31-1-500
Magnesium	10,000 µg/mL	10% HCl	100 mL	10M31-2-100
Magnesium	10,000 µg/mL	10% HCl	250 mL	10M31-2-250
Magnesium	10,000 µg/mL	10% HCl	500 mL	10M31-2-500
Manganese	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-32-1-100
Manganese	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-32-1-250
Manganese	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-32-1-500
Manganese	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100032-1-50
Manganese	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100032-1-100
Manganese	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100032-1-250
Manganese	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100032-1-500
Manganese	1,000 µg/mL	2% HCl	100 mL	100032-2-100
Manganese	1,000 µg/mL	2% HCl	250 mL	100032-2-250
Manganese	1,000 µg/mL	2% HCl	500 mL	100032-2-500
Manganese	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M32-1-100
Manganese	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M32-1-250
Manganese	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M32-1-500
Manganese	10,000 µg/mL	10% HCl	100 mL	10M32-2-100
Manganese	10,000 µg/mL	10% HCl	250 mL	10M32-2-250
Manganese	10,000 µg/mL	10% HCl	500 mL	10M32-2-500
Mercury	100 µg/mL	5% HNO <sub>3</sub>	100 mL	100-33-1-100
Mercury	100 µg/mL	5% HNO <sub>3</sub>	250 mL	100-33-1-250
Mercury	100 µg/mL	5% HNO <sub>3</sub>	500 mL	100-33-1-500
Mercury	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100033-1-50
Mercury	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100033-1-100
Mercury	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100033-1-250
Mercury	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100033-1-500
Mercury	1,000 µg/mL	2% HCl	100 mL	100033-2-100
Mercury	1,000 µg/mL	2% HCl	250 mL	100033-2-250
Mercury	1,000 µg/mL	2% HCl	500 mL	100033-2-500
Mercury	1,000 µg/mL	4% HCl + 3% HNO <sub>3</sub>	50 mL	100077-12-50
Mercury	1,000 µg/mL	4% HCl + 3% HNO <sub>3</sub>	100 mL	100077-12-100
Mercury	1,000 µg/mL	4% HCl + 3% HNO <sub>3</sub>	250 mL	100077-12-250
Mercury	1,000 µg/mL	4% HCl + 3% HNO <sub>3</sub>	500 mL	100077-12-500
Mercury	10,000 µg/mL	10% HNO <sub>3</sub>	100 mL	10M33-1-100
Mercury	10,000 µg/mL	10% HNO <sub>3</sub>	250 mL	10M33-1-250

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Mercury	10,000 µg/mL	10% HNO <sub>3</sub>	500 mL	10M33-1-500
Molybdenum	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-34-3-100
Molybdenum	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-34-3-250
Molybdenum	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-34-3-500
Molybdenum	1,000 µg/mL	2% HCl	50 mL	100034-2-50
Molybdenum	1,000 µg/mL	2% HCl	100 mL	100034-2-100
Molybdenum	1,000 µg/mL	2% HCl	250 mL	100034-2-250
Molybdenum	1,000 µg/mL	2% HCl	500 mL	100034-2-500
Molybdenum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	50 mL	100034-3-50
Molybdenum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	100 mL	100034-3-100
Molybdenum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	250 mL	100034-3-250
Molybdenum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	500 mL	100034-3-500
Molybdenum	1,000 µg/mL	H <sub>2</sub> O	50 mL	100034-4-50
Molybdenum	1,000 µg/mL	H <sub>2</sub> O	100 mL	100034-4-100
Molybdenum	1,000 µg/mL	H <sub>2</sub> O	250 mL	100034-4-250
Molybdenum	1,000 µg/mL	H <sub>2</sub> O	500 mL	100034-4-500
Molybdenum	10,000 µg/mL	10% HCl	100 mL	10M34-2-100
Molybdenum	10,000 µg/mL	10% HCl	250 mL	10M34-2-250
Molybdenum	10,000 µg/mL	10% HCl	500 mL	10M34-2-500
Molybdenum	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	100 mL	10M34-3-100
Molybdenum	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	250 mL	10M34-3-250
Molybdenum	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	500 mL	10M34-3-500
Neodymium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-35-1-100
Neodymium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-35-1-250
Neodymium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100035-1-50
Neodymium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100035-1-100
Neodymium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100035-1-250
Neodymium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100035-1-500
Neodymium	1,000 µg/mL	2% HCl	100 mL	100035-2-100
Neodymium	1,000 µg/mL	2% HCl	250 mL	100035-2-250
Neodymium	1,000 µg/mL	2% HCl	500 mL	100035-2-500
Neodymium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M35-1-100
Neodymium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M35-1-250
Neodymium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M35-1-500
Neodymium	10,000 µg/mL	4% HCl	100 mL	10M35-2-100
Neodymium	10,000 µg/mL	4% HCl	250 mL	10M35-2-250
Neodymium	10,000 µg/mL	4% HCl	500 mL	10M35-2-500
Nickel	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-36-1-100
Nickel	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-36-1-250
Nickel	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-36-1-500
Nickel	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100036-1-50
Nickel	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100036-1-100
Nickel	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100036-1-250
Nickel	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100036-1-500
Nickel	1,000 µg/mL	2% HCl	50 mL	100036-2-50
Nickel	1,000 µg/mL	2% HCl	100 mL	100036-2-100
Nickel	1,000 µg/mL	2% HCl	250 mL	100036-2-250
Nickel	1,000 µg/mL	2% HCl	500 mL	100036-2-500
Nickel	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M36-1-100
Nickel	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M36-1-250
Nickel	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M36-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Nickel	10,000 µg/mL	10% HCl	100 mL	10M36-2-100
Nickel	10,000 µg/mL	10% HCl	250 mL	10M36-2-250
Nickel	10,000 µg/mL	10% HCl	500 mL	10M36-2-500
Niobium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-37-3-100
Niobium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-37-3-250
Niobium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100037-3-50
Niobium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100037-3-100
Niobium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100037-3-250
Niobium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100037-3-500
Niobium	10,000 µg/mL	4% HNO <sub>3</sub> + 1% HF	100 mL	10M37-3-100
Niobium	10,000 µg/mL	4% HNO <sub>3</sub> + 1% HF	250 mL	10M37-3-250
Niobium	10,000 µg/mL	4% HNO <sub>3</sub> + 1% HF	500 mL	10M37-3-500
Osmium	100 µg/mL	2% HCl	100 mL	100-70-2-100
Osmium	100 µg/mL	2% HCl	500 mL	100-70-2-500
Osmium	1,000 µg/mL	20% HCl	50 mL	100070-2-50
Osmium	1,000 µg/mL	20% HCl	100 mL	100070-2-100
Osmium	1,000 µg/mL	20% HCl	250 mL	100070-2-250
Osmium	1,000 µg/mL	20% HCl	500 mL	100070-2-500
Palladium	100 µg/mL	2% HNO <sub>3</sub> + Tr HCl	100 mL	100-38-1-100
Palladium	100 µg/mL	2% HNO <sub>3</sub> + Tr HCl	250 mL	100-38-1-250
Palladium	100 µg/mL	2% HNO <sub>3</sub> + Tr HCl	500 mL	100-38-1-500
Palladium	100 µg/mL	2% HCl	100 mL	100-38-2-100
Palladium	100 µg/mL	2% HCl	250 mL	100-38-2-250
Palladium	100 µg/mL	2% HCl	500 mL	100-38-2-500
Palladium	1,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	50 mL	100038-1-50
Palladium	1,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	100 mL	100038-1-100
Palladium	1,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	250 mL	100038-1-250
Palladium	1,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	500 mL	100038-1-500
Palladium	1,000 µg/mL	5% HCl	50 mL	100038-2-50
Palladium	1,000 µg/mL	5% HCl	100 mL	100038-2-100
Palladium	1,000 µg/mL	5% HCl	250 mL	100038-2-250
Palladium	1,000 µg/mL	5% HCl	500 mL	100038-2-500
Palladium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	100 mL	10M38-1-100
Palladium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	250 mL	10M38-1-250
Palladium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HCl	500 mL	10M38-1-500
Palladium	10,000 µg/mL	10% HCl	100 mL	10M38-2-100
Palladium	10,000 µg/mL	10% HCl	250 mL	10M38-2-250
Palladium	10,000 µg/mL	10% HCl	500 mL	10M38-2-500
Phosphorus	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-39-1-100
Phosphorus	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-39-1-250
Phosphorus	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-39-1-500
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	50 mL	100039-1-50
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	100 mL	100039-1-100
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	250 mL	100039-1-250
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	500 mL	100039-1-500
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	100 mL	100039-1K-100
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	250 mL	100039-1K-250
Phosphorus	1,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	500 mL	100039-1K-500
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	100 mL	10M39-1K-100
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	250 mL	10M39-1K-250
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from KH <sub>2</sub> PO <sub>4</sub>	500 mL	10M39-1K-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	100 mL	10M39-1-100
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	250 mL	10M39-1-250
Phosphorus	10,000 µg/mL	0.05% HNO <sub>3</sub> from NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	500 mL	10M39-1-500
Platinum	100 µg/mL	2% HCl	100 mL	100-40-2-100
Platinum	100 µg/mL	2% HCl	250 mL	100-40-2-250
Platinum	100 µg/mL	2% HCl	500 mL	100-40-2-500
Platinum	1,000 µg/mL	5% HCl	50 mL	100040-2-50
Platinum	1,000 µg/mL	5% HCl	100 mL	100040-2-100
Platinum	1,000 µg/mL	5% HCl	250 mL	100040-2-250
Platinum	1,000 µg/mL	5% HCl	500 mL	100040-2-500
Platinum	10,000 µg/mL	10% HCl	100 mL	10M40-2-100
Platinum	10,000 µg/mL	10% HCl	250 mL	10M40-2-250
Platinum	10,000 µg/mL	10% HCl	500 mL	10M40-2-500
Potassium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-41-1-100
Potassium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-41-1-250
Potassium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-41-1-500
Potassium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100041-1-50
Potassium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100041-1-100
Potassium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100041-1-250
Potassium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100041-1-500
Potassium	1,000 µg/mL	1% HCl	50 mL	100041-2-50
Potassium	1,000 µg/mL	1% HCl	100 mL	100041-2-100
Potassium	1,000 µg/mL	1% HCl	250 mL	100041-2-250
Potassium	1,000 µg/mL	1% HCl	500 mL	100041-2-500
Potassium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M41-1-100
Potassium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M41-1-250
Potassium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M41-1-500
Potassium	10,000 µg/mL	1% HCl	100 mL	10M41-2-100
Potassium	10,000 µg/mL	1% HCl	250 mL	10M41-2-250
Potassium	10,000 µg/mL	1% HCl	500 mL	10M41-2-500
Praseodymium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-42-1-100
Praseodymium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100042-1-50
Praseodymium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100042-1-100
Praseodymium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100042-1-250
Praseodymium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100042-1-500
Praseodymium	1,000 µg/mL	2% HCl	100 mL	100042-2-100
Praseodymium	1,000 µg/mL	2% HCl	250 mL	100042-2-250
Praseodymium	1,000 µg/mL	2% HCl	500 mL	100042-2-500
Praseodymium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M42-1-100
Praseodymium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M42-1-250
Praseodymium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M42-1-500
Praseodymium	10,000 µg/mL	4% HCl	100 mL	10M42-2-100
Praseodymium	10,000 µg/mL	4% HCl	250 mL	10M42-2-250
Praseodymium	10,000 µg/mL	4% HCl	500 mL	10M42-2-500
Rhenium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-43-1-100
Rhenium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-43-1-250
Rhenium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-43-1-500
Rhenium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100043-1-50
Rhenium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100043-1-100
Rhenium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100043-1-250
Rhenium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100043-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Rhenium	1,000 µg/mL	2% HCl	100 mL	100043-2-100
Rhenium	1,000 µg/mL	2% HCl	250 mL	100043-2-250
Rhenium	1,000 µg/mL	2% HCl	500 mL	100043-2-500
Rhenium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M43-1-100
Rhenium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M43-1-250
Rhenium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M43-1-500
Rhodium	100 µg/mL	2% HCl	100 mL	100-44-2-100
Rhodium	100 µg/mL	2% HCl	250 mL	100-44-2-250
Rhodium	100 µg/mL	2% HCl	500 mL	100-44-2-500
Rhodium	1,000 µg/mL	10% HCl	50 mL	100044-2-50
Rhodium	1,000 µg/mL	10% HCl	100 mL	100044-2-100
Rhodium	1,000 µg/mL	10% HCl	250 mL	100044-2-250
Rhodium	1,000 µg/mL	10% HCl	500 mL	100044-2-500
Rhodium	10,000 µg/mL	10% HCl	100 mL	10M44-2-100
Rhodium	10,000 µg/mL	10% HCl	250 mL	10M44-2-250
Rhodium	10,000 µg/mL	10% HCl	500 mL	10M44-2-500
Rubidium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-45-1-100
Rubidium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-45-1-500
Rubidium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100045-1-100
Rubidium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100045-1-250
Rubidium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100045-1-500
Rubidium	1,000 µg/mL	1% HCl	100 mL	100045-2-100
Rubidium	1,000 µg/mL	1% HCl	250 mL	100045-2-250
Rubidium	1,000 µg/mL	1% HCl	500 mL	100045-2-500
Rubidium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M45-1-100
Rubidium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M45-1-250
Rubidium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M45-1-500
Rubidium	10,000 µg/mL	1% HCl	100 mL	10M45-2-100
Rubidium	10,000 µg/mL	1% HCl	250 mL	10M45-2-250
Rubidium	10,000 µg/mL	1% HCl	500 mL	10M45-2-500
Ruthenium	100 µg/mL	2% HCl	100 mL	100-46-2-100
Ruthenium	100 µg/mL	2% HCl	250 mL	100-46-2-250
Ruthenium	1,000 µg/mL	2% HCl	50 mL	100046-2-50
Ruthenium	1,000 µg/mL	2% HCl	100 mL	100046-2-100
Ruthenium	1,000 µg/mL	2% HCl	250 mL	100046-2-250
Ruthenium	1,000 µg/mL	2% HCl	500 mL	100046-2-500
Ruthenium	10,000 µg/mL	5% HCl	100 mL	10M46-2-100
Ruthenium	10,000 µg/mL	5% HCl	250 mL	10M46-2-250
Ruthenium	10,000 µg/mL	5% HCl	500 mL	10M46-2-500
Samarium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-47-1-100
Samarium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100047-1-50
Samarium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100047-1-100
Samarium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100047-1-250
Samarium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100047-1-500
Samarium	1,000 µg/mL	2% HCl	100 mL	100047-2-100
Samarium	1,000 µg/mL	2% HCl	250 mL	100047-2-250
Samarium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M47-1-100
Samarium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M47-1-250
Samarium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M47-1-500
Samarium	10,000 µg/mL	4% HCl	100 mL	10M47-2-100
Samarium	10,000 µg/mL	4% HCl	250 mL	10M47-2-250

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Scandium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-48-1-100
Scandium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-48-1-250
Scandium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-48-1-500
Scandium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100048-1-50
Scandium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100048-1-100
Scandium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100048-1-250
Scandium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100048-1-500
Scandium	1,000 µg/mL	2% HCl	50 mL	100048-2-50
Scandium	1,000 µg/mL	2% HCl	100 mL	100048-2-100
Scandium	1,000 µg/mL	2% HCl	250 mL	100048-2-250
Scandium	1,000 µg/mL	2% HCl	500 mL	100048-2-500
Scandium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M48-1-100
Scandium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M48-1-250
Scandium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M48-1-500
Scandium	10,000 µg/mL	10% HCl	100 mL	10M48-2-100
Scandium	10,000 µg/mL	10% HCl	250 mL	10M48-2-250
Scandium	10,000 µg/mL	10% HCl	500 mL	10M48-2-500
Selenium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-49-1-100
Selenium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-49-1-250
Selenium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-49-1-500
Selenium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100049-1-50
Selenium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100049-1-100
Selenium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100049-1-250
Selenium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100049-1-500
Selenium	1,000 µg/mL	2% HCl	50 mL	100049-2-50
Selenium	1,000 µg/mL	2% HCl	100 mL	100049-2-100
Selenium	1,000 µg/mL	2% HCl	250 mL	100049-2-250
Selenium	1,000 µg/mL	2% HCl	500 mL	100049-2-500
Selenium	10,000 µg/mL	10% HNO <sub>3</sub>	100 mL	10M49-1-100
Selenium	10,000 µg/mL	10% HNO <sub>3</sub>	250 mL	10M49-1-250
Selenium	10,000 µg/mL	10% HNO <sub>3</sub>	500 mL	10M49-1-500
Selenium	10,000 µg/mL	10% HCl	100 mL	10M49-2-100
Selenium	10,000 µg/mL	10% HCl	250 mL	10M49-2-250
Selenium	10,000 µg/mL	10% HCl	500 mL	10M49-2-500
Silica	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	100 mL	1000SIO2-3-100
Silica	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	250 mL	1000SIO2-3-250
Silica	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	500 mL	1000SIO2-3-500
Silica	1,000 µg/mL	H <sub>2</sub> O	100 mL	1000SIO2-4F-100
Silica	1,000 µg/mL	H <sub>2</sub> O	250 mL	1000SIO2-4F-250
Silica	1,000 µg/mL	H <sub>2</sub> O	500 mL	1000SIO2-4F-500
Silicon	100 µg/mL	H <sub>2</sub> O	100 mL	100-50-4-100
Silicon	100 µg/mL	H <sub>2</sub> O	250 mL	100-50-4-250
Silicon	100 µg/mL	H <sub>2</sub> O	500 mL	100-50-4-500
Silicon	100 µg/mL	H <sub>2</sub> O	100 mL	100-50-4F-100
Silicon	100 µg/mL	H <sub>2</sub> O	250 mL	100-50-4F-250
Silicon	100 µg/mL	H <sub>2</sub> O	500 mL	100-50-4F-500
Silicon	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	50 mL	100050-3-50
Silicon	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	100 mL	100050-3-100
Silicon	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	250 mL	100050-3-250
Silicon	1,000 µg/mL	1% HNO <sub>3</sub> + Tr HF	500 mL	100050-3-500
Silicon	1,000 µg/mL	H <sub>2</sub> O	50 mL	100050-4-50



**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Silicon	1,000 µg/mL	H <sub>2</sub> O	100 mL	100050-4-100
Silicon	1,000 µg/mL	H <sub>2</sub> O	250 mL	100050-4-250
Silicon	1,000 µg/mL	H <sub>2</sub> O	500 mL	100050-4-500
Silicon	1,000 µg/mL	H <sub>2</sub> O	50 mL	100050-4F-50
Silicon	1,000 µg/mL	H <sub>2</sub> O	100 mL	100050-4F-100
Silicon	1,000 µg/mL	H <sub>2</sub> O	250 mL	100050-4F-250
Silicon	1,000 µg/mL	H <sub>2</sub> O	500 mL	100050-4F-500
Silicon	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M50-4-100
Silicon	10,000 µg/mL	H <sub>2</sub> O	250 mL	10M50-4-250
Silicon	10,000 µg/mL	H <sub>2</sub> O	500 mL	10M50-4-500
Silicon	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M50-4F-100
Silicon	10,000 µg/mL	H <sub>2</sub> O	250 mL	10M50-4F-250
Silicon	10,000 µg/mL	H <sub>2</sub> O	500 mL	10M50-4F-500
Silver	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-51-1-100
Silver	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-51-1-250
Silver	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-51-1-500
Silver	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100051-1-50
Silver	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100051-1-100
Silver	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100051-1-250
Silver	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100051-1-500
Silver	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M51-1-100
Silver	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M51-1-250
Silver	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M51-1-500
Sodium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-52-1-100
Sodium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-52-1-250
Sodium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-52-1-500
Sodium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100052-1-50
Sodium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100052-1-100
Sodium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100052-1-250
Sodium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100052-1-500
Sodium	1,000 µg/mL	1% HCl	100 mL	100052-2-100
Sodium	1,000 µg/mL	1% HCl	250 mL	100052-2-250
Sodium	1,000 µg/mL	1% HCl	500 mL	100052-2-500
Sodium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M52-1-100
Sodium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M52-1-250
Sodium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M52-1-500
Strontium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-53-1-100
Strontium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-53-1-250
Strontium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-53-1-500
Strontium	1,000 µg/mL	1% HNO <sub>3</sub>	50 mL	100053-1-50
Strontium	1,000 µg/mL	1% HNO <sub>3</sub>	100 mL	100053-1-100
Strontium	1,000 µg/mL	1% HNO <sub>3</sub>	250 mL	100053-1-250
Strontium	1,000 µg/mL	1% HNO <sub>3</sub>	500 mL	100053-1-500
Strontium	1,000 µg/mL	2% HCl	100 mL	100053-2-100
Strontium	1,000 µg/mL	2% HCl	250 mL	100053-2-250
Strontium	1,000 µg/mL	2% HCl	500 mL	100053-2-500
Strontium	10,000 µg/mL	1% HNO <sub>3</sub>	100 mL	10M53-1-100
Strontium	10,000 µg/mL	1% HNO <sub>3</sub>	250 mL	10M53-1-250
Strontium	10,000 µg/mL	1% HNO <sub>3</sub>	500 mL	10M53-1-500
Strontium	10,000 µg/mL	10% HCl	100 mL	10M53-2-100
Strontium	10,000 µg/mL	10% HCl	250 mL	10M53-2-250

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Strontium	10,000 µg/mL	10% HCl	500 mL	10M53-2-500
Sulfur	100 µg/mL	H <sub>2</sub> O	100 mL	100-54-5-100
Sulfur	100 µg/mL	H <sub>2</sub> O	250 mL	100-54-5-250
Sulfur	100 µg/mL	H <sub>2</sub> O	500 mL	100-54-5-500
Sulfur	1,000 µg/mL	H <sub>2</sub> O	50 mL	100054-5-50
Sulfur	1,000 µg/mL	H <sub>2</sub> O	100 mL	100054-5-100
Sulfur	1,000 µg/mL	H <sub>2</sub> O	250 mL	100054-5-250
Sulfur	1,000 µg/mL	H <sub>2</sub> O	500 mL	100054-5-500
Sulfur	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M54-5-100
Sulfur	10,000 µg/mL	H <sub>2</sub> O	250 mL	10M54-5-250
Sulfur	10,000 µg/mL	H <sub>2</sub> O	500 mL	10M54-5-500
Sodium	10,000 µg/mL	1% HCl	100 mL	10M52-2-100
Sodium	10,000 µg/mL	1% HCl	250 mL	10M52-2-250
Sodium	10,000 µg/mL	1% HCl	500 mL	10M52-2-500
Tantalum	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-55-3-100
Tantalum	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-55-3-250
Tantalum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100055-3-50
Tantalum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100055-3-100
Tantalum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100055-3-250
Tantalum	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100055-3-500
Tantalum	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	100 mL	10M55-3-100
Tantalum	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	250 mL	10M55-3-250
Tantalum	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	500 mL	10M55-3-500
Tellurium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-56-3-100
Tellurium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-56-3-250
Tellurium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-56-3-500
Tellurium	1,000 µg/mL	20% HCl	100 mL	100056-2-100
Tellurium	1,000 µg/mL	20% HCl	250 mL	100056-2-250
Tellurium	1,000 µg/mL	20% HCl	500 mL	100056-2-500
Tellurium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100056-3-50
Tellurium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100056-3-100
Tellurium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100056-3-250
Tellurium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100056-3-500
Tellurium	10,000 µg/mL	40% HCl	100 mL	10M56-2-100
Tellurium	10,000 µg/mL	40% HCl	250 mL	10M56-2-250
Tellurium	10,000 µg/mL	40% HCl	500 mL	10M56-2-500
Tellurium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	100 mL	10M56-3-100
Tellurium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	250 mL	10M56-3-250
Tellurium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	500 mL	10M56-3-500
Terbium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-57-1-100
Terbium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-57-1-250
Terbium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100057-1-50
Terbium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100057-1-100
Terbium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100057-1-250
Terbium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100057-1-500
Terbium	1,000 µg/mL	2% HCl	100 mL	100057-2-100
Terbium	1,000 µg/mL	2% HCl	250 mL	100057-2-250
Terbium	1,000 µg/mL	2% HCl	500 mL	100057-2-500
Terbium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M57-1-100
Terbium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M57-1-250
Terbium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M57-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Terbium	10,000 µg/mL	4% HCl	100 mL	10M57-2-100
Thallium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-58-1-100
Thallium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-58-1-250
Thallium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-58-1-500
Thallium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100058-1-50
Thallium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100058-1-100
Thallium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100058-1-250
Thallium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100058-1-500
Thallium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M58-1-100
Thallium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M58-1-250
Thallium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M58-1-500
Thorium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-59-1-100
Thorium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-59-1-250
Thorium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-59-1-500
Thorium	1,000 µg/mL	2% HCl	100 mL	100059-2-100
Thorium	1,000 µg/mL	2% HCl	250 mL	100059-2-250
Thorium	1,000 µg/mL	2% HCl	500 mL	100059-2-500
Thorium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M59-1-100
Thorium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M59-1-250
Thorium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M59-1-500
Thulium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-60-1-100
Thulium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100060-1-100
Thulium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100060-1-250
Thulium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100060-1-500
Thulium	1,000 µg/mL	2% HCl	100 mL	100060-2-100
Thulium	1,000 µg/mL	2% HCl	250 mL	100060-2-250
Thulium	1,000 µg/mL	2% HCl	500 mL	100060-2-500
Thulium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M60-1-100
Thulium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M60-1-250
Thulium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M60-1-500
Thulium	10,000 µg/mL	4% HCl	100 mL	10M60-2-100
Thulium	10,000 µg/mL	4% HCl	500 mL	10M60-2-500
Tin	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-61-3-100
Tin	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-61-3-250
Tin	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-61-3-500
Tin	100 µg/mL	H <sub>2</sub> O	100 mL	100-61-4-100
Tin	100 µg/mL	H <sub>2</sub> O	250 mL	100-61-4-250
Tin	1,000 µg/mL	20% HCl	50 mL	100061-2-50
Tin	1,000 µg/mL	20% HCl	100 mL	100061-2-100
Tin	1,000 µg/mL	20% HCl	250 mL	100061-2-250
Tin	1,000 µg/mL	20% HCl	500 mL	100061-2-500
Tin	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100061-3-50
Tin	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100061-3-100
Tin	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100061-3-250
Tin	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100061-3-500
Tin	1,000 µg/mL	H <sub>2</sub> O	100 mL	100061-4-100
Tin	1,000 µg/mL	H <sub>2</sub> O	250 mL	100061-4-250
Tin	1,000 µg/mL	H <sub>2</sub> O	500 mL	100061-4-500
Tin	10,000 µg/mL	60% HCl	100 mL	10M61-2-100
Tin	10,000 µg/mL	60% HCl	250 mL	10M61-2-250
Tin	10,000 µg/mL	60% HCl	500 mL	10M61-2-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Tin	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	100 mL	10M61-3-100
Tin	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	250 mL	10M61-3-250
Tin	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	500 mL	10M61-3-500
Tin	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M61-4-100
Tin	10,000 µg/mL	H <sub>2</sub> O	250 mL	10M61-4-250
Titanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-62-3-100
Titanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-62-3-250
Titanium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-62-3-500
Titanium	100 µg/mL	H <sub>2</sub> O	100 mL	100-62-4-100
Titanium	1,000 µg/mL	20% HCl	50 mL	100062-2-50
Titanium	1,000 µg/mL	20% HCl	100 mL	100062-2-100
Titanium	1,000 µg/mL	20% HCl	250 mL	100062-2-250
Titanium	1,000 µg/mL	20% HCl	500 mL	100062-2-500
Titanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	50 mL	100062-3-50
Titanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	100 mL	100062-3-100
Titanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	250 mL	100062-3-250
Titanium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.1% HF	500 mL	100062-3-500
Titanium	1,000 µg/mL	H <sub>2</sub> O	50 mL	100062-4-50
Titanium	1,000 µg/mL	H <sub>2</sub> O	100 mL	100062-4-100
Titanium	1,000 µg/mL	H <sub>2</sub> O	250 mL	100062-4-250
Titanium	1,000 µg/mL	H <sub>2</sub> O	500 mL	100062-4-500
Titanium	10,000 µg/mL	40% HCl	100 mL	10M62-2-100
Titanium	10,000 µg/mL	40% HCl	250 mL	10M62-2-250
Titanium	10,000 µg/mL	40% HCl	500 mL	10M62-2-500
Titanium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	100 mL	10M62-3-100
Titanium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	250 mL	10M62-3-250
Titanium	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	500 mL	10M62-3-500
Titanium	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M62-4-100
Titanium	10,000 µg/mL	H <sub>2</sub> O	250 mL	10M62-4-250
Titanium	10,000 µg/mL	H <sub>2</sub> O	500 mL	10M62-4-500
Tungsten	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-63-3-100
Tungsten	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-63-3-250
Tungsten	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-63-3-500
Tungsten	1,000 µg/mL	2% HNO <sub>3</sub> + 1% HF	50 mL	100063-3-50
Tungsten	1,000 µg/mL	2% HNO <sub>3</sub> + 1% HF	100 mL	100063-3-100
Tungsten	1,000 µg/mL	2% HNO <sub>3</sub> + 1% HF	250 mL	100063-3-250
Tungsten	1,000 µg/mL	2% HNO <sub>3</sub> + 1% HF	500 mL	100063-3-500
Tungsten	1,000 µg/mL	0.1% NH <sub>4</sub> OH	100 mL	100063-4-100
Tungsten	1,000 µg/mL	0.1% NH <sub>4</sub> OH	250 mL	100063-4-250
Tungsten	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	100 mL	10M63-3-100
Tungsten	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	250 mL	10M63-3-250
Tungsten	10,000 µg/mL	5% HNO <sub>3</sub> + 2% HF	500 mL	10M63-3-500
Tungsten	10,000 µg/mL	H <sub>2</sub> O	100 mL	10M63-4-100
Tungsten	10,000 µg/mL	H <sub>2</sub> O	500 mL	10M63-4-500
Thorium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100059-1-50
Thorium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100059-1-100
Thorium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100059-1-250
Thorium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100059-1-500
Uranium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-64-1-100
Uranium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-64-1-250
Uranium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-64-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100064-1-50
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100064-1-100
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100064-1-250
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100064-1-500
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100064-1D-50
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100064-1D-100
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100064-1D-250
Uranium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100064-1D-500
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M64-1-100
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M64-1-250
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M64-1-500
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M64-1D-100
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M64-1D-250
Uranium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M64-1D-500
Vanadium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-65-1-100
Vanadium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-65-1-250
Vanadium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-65-1-500
Vanadium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100065-1-50
Vanadium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100065-1-100
Vanadium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100065-1-250
Vanadium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100065-1-500
Vanadium	1,000 µg/mL	2% HCl	100 mL	100065-2-100
Vanadium	1,000 µg/mL	2% HCl	250 mL	100065-2-250
Vanadium	1,000 µg/mL	2% HCl	500 mL	100065-2-500
Vanadium	5,000 µg/mL	5% HNO <sub>3</sub>	100 mL	5M65-1-100
Vanadium	5,000 µg/mL	5% HNO <sub>3</sub>	250 mL	5M65-1-250
Vanadium	5,000 µg/mL	5% HNO <sub>3</sub>	500 mL	5M65-1-500
Vanadium	10,000 µg/mL	10% HCl	100 mL	10M65-2-100
Vanadium	10,000 µg/mL	10% HCl	250 mL	10M65-2-250
Vanadium	10,000 µg/mL	10% HCl	500 mL	10M65-2-500
Vanadium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HF	100 mL	10M65-3-100
Vanadium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HF	250 mL	10M65-3-250
Vanadium	10,000 µg/mL	10% HNO <sub>3</sub> + Tr HF	500 mL	10M65-3-500
Ytterbium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-66-1-100
Ytterbium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-66-1-250
Ytterbium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-66-1-500
Ytterbium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100066-1-50
Ytterbium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100066-1-100
Ytterbium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100066-1-250
Ytterbium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100066-1-500
Ytterbium	1,000 µg/mL	2% HCl	100 mL	100066-2-100
Ytterbium	1,000 µg/mL	2% HCl	250 mL	100066-2-250
Ytterbium	1,000 µg/mL	2% HCl	500 mL	100066-2-500
Ytterbium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M66-1-100
Ytterbium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M66-1-250
Ytterbium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M66-1-500
Ytterbium	10,000 µg/mL	4% HCl	100 mL	10M66-2-100
Ytterbium	10,000 µg/mL	4% HCl	500 mL	10M66-2-500
Yttrium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-67-1-100
Yttrium	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-67-1-250
Yttrium	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-67-1-500

**ICP Single-Component Standards (cont'd)**

Component	Concentration	Matrix	Volume	Part #
Yttrium	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100067-1-50
Yttrium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100067-1-100
Yttrium	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100067-1-250
Yttrium	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100067-1-500
Yttrium	1,000 µg/mL	2% HCl	100 mL	100067-2-100
Yttrium	1,000 µg/mL	2% HCl	250 mL	100067-2-250
Yttrium	1,000 µg/mL	2% HCl	500 mL	100067-2-500
Yttrium	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M67-1-100
Yttrium	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M67-1-250
Yttrium	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M67-1-500
Yttrium	10,000 µg/mL	4% HCl	100 mL	10M67-2-100
Yttrium	10,000 µg/mL	4% HCl	250 mL	10M67-2-250
Yttrium	10,000 µg/mL	4% HCl	500 mL	10M67-2-500
Zinc	100 µg/mL	2% HNO <sub>3</sub>	100 mL	100-68-1-100
Zinc	100 µg/mL	2% HNO <sub>3</sub>	250 mL	100-68-1-250
Zinc	100 µg/mL	2% HNO <sub>3</sub>	500 mL	100-68-1-500
Zinc	1,000 µg/mL	2% HNO <sub>3</sub>	50 mL	100068-1-50
Zinc	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	100068-1-100
Zinc	1,000 µg/mL	2% HNO <sub>3</sub>	250 mL	100068-1-250
Zinc	1,000 µg/mL	2% HNO <sub>3</sub>	500 mL	100068-1-500
Zinc	1,000 µg/mL	2% HCl	100 mL	100068-2-100
Zinc	1,000 µg/mL	2% HCl	250 mL	100068-2-250
Zinc	1,000 µg/mL	2% HCl	500 mL	100068-2-500
Zinc	10,000 µg/mL	4% HNO <sub>3</sub>	100 mL	10M68-1-100
Zinc	10,000 µg/mL	4% HNO <sub>3</sub>	250 mL	10M68-1-250
Zinc	10,000 µg/mL	4% HNO <sub>3</sub>	500 mL	10M68-1-500
Zinc	10,000 µg/mL	10% HCl	100 mL	10M68-2-100
Zinc	10,000 µg/mL	10% HCl	250 mL	10M68-2-250
Zinc	10,000 µg/mL	10% HCl	500 mL	10M68-2-500
Zirconium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	100-69-3-100
Zirconium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	250 mL	100-69-3-250
Zirconium	100 µg/mL	2% HNO <sub>3</sub> + Tr HF	500 mL	100-69-3-500
Zirconium	1,000 µg/mL	0.5% HNO <sub>3</sub>	50 mL	100069-1-50
Zirconium	1,000 µg/mL	0.5% HNO <sub>3</sub>	100 mL	100069-1-100
Zirconium	1,000 µg/mL	0.5% HNO <sub>3</sub>	250 mL	100069-1-250
Zirconium	1,000 µg/mL	0.5% HNO <sub>3</sub>	500 mL	100069-1-500
Zirconium	1,000 µg/mL	2% HCl	100 mL	100069-2-100
Zirconium	1,000 µg/mL	2% HCl	250 mL	100069-2-250
Zirconium	1,000 µg/mL	2% HCl	500 mL	100069-2-500
Zirconium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	50 mL	100069-3-50
Zirconium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	100 mL	100069-3-100
Zirconium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	250 mL	100069-3-250
Zirconium	1,000 µg/mL	2% HNO <sub>3</sub> + 0.5% HF	500 mL	100069-3-500
Zirconium	10,000 µg/mL	2% HCl	100 mL	10M69-2-100
Zirconium	10,000 µg/mL	2% HCl	250 mL	10M69-2-250
Zirconium	10,000 µg/mL	2% HCl	500 mL	10M69-2-500
Zirconium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	100 mL	10M69-3-100
Zirconium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	250 mL	10M69-3-250
Zirconium	10,000 µg/mL	4% HNO <sub>3</sub> + 2% HF	500 mL	10M69-3-500

## ICP Multi-Component Standards - Starter Kits

NOTE: Each kit contains individual 100 mL or 250 mL bottles of the listed elements at 1,000 µg/mL

Components	Concentration	Matrix	Volume	Part #
Aluminum, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Calcium, Chromium, Cobalt, Copper, Indium, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silicon*, Silver, Sodium, Strontium, Thallium, Vanadium, Zinc	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-KIT-A-100
			250 mL	ICP-KIT-A-250
Antimony, Hafnium, Molybdenum, Niobium, Tantalum, Tellurium, Tin, Titanium, Tungsten, Zirconium	1,000 µg/mL	2-5% HNO <sub>3</sub> + Tr HF	100 mL	ICP-KIT-B-100
			250 mL	ICP-KIT-B-250
Boron, Phosphorus, Sulfur	1,000 µg/mL	H <sub>2</sub> O	100 mL	ICP-KIT-C-100
			250 mL	ICP-KIT-C-250
Gold, Palladium**, Platinum	1,000 µg/mL	2-5% HCl	100 mL	ICP-KIT-D-100
			250 mL	ICP-KIT-D-250
Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Uranium, Ytterbium, Yttrium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-KIT-E-100
			250 mL	ICP-KIT-E-250
Complete Kit: Contains all 60 single-element solutions in kits ICP-KIT-A through ICP-KIT-E	1,000 µg/mL	Multiple	100 mL	ICP-KIT-A-E-100
			250 mL	ICP-KIT-A-E-250

## ICP Multi-Component Standards - Analytical Mixtures

Components	Concentration	Matrix	Volume	Part #
Mercury	5 µg/mL	2% HNO <sub>3</sub>	100 mL 250 mL 500 mL	ICP-AM-3-100 ICP-AM-3-250 ICP-AM-3-500
Beryllium	10 µg/mL			
Arsenic, Iron, Nickel, Selenium	50 µg/mL			
Aluminum, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Vanadium, Zinc	100 µg/mL			
Antimony, Calcium, Magnesium, Selenium, Sodium, Sulfur, Tellurium, Tin	100 µg/mL	20% HCl	100 mL	ICP-AM-4-100
			250 mL	ICP-AM-4-250
			500 mL	ICP-AM-4-500
Aluminum, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Zinc	100 µg/mL	5% HCl	100 mL	ICP-AM-5-100
			250 mL	ICP-AM-5-250
			500 mL	ICP-AM-5-500
Solution A <sup>†</sup>	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	2 solution set at 100 mL each	ICP-AM-6-100
			2 solution set at 250 mL each	ICP-AM-6-250
Solution B <sup>†</sup>		Silver	4% HNO <sub>3</sub>	2 solution set at 500 mL each

\* Silicon from (NH<sub>4</sub>)<sub>2</sub>SiF<sub>6</sub>

\*\* Available as Nitrate. (must specify).

† Solution A and B can also be sold separately.

## ICP Multi-Component Standards - Analytical Mixtures (cont'd)

Components		Concentration	Matrix	Volume	Part #
Solution A*	Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Thallium, Uranium, Vanadium, Zinc	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	2 solution set at 100 mL each	ICP-AM-12-100
Solution B*	Thorium		4% HNO <sub>3</sub>	2 solution set at 250 mL each	ICP-AM-12-250
				2 solution set at 500 mL each	ICP-AM-12-500
Calcium, Magnesium, Potassium, Sodium	1,000 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-AM-15-1M-100	
			250 mL	ICP-AM-15-1M-250	
			500 mL	ICP-AM-15-1M-500	
Calcium, Magnesium, Potassium, Sodium	10,000 µg/mL	5% HNO <sub>3</sub>	100 mL	ICP-AM-15-100	
			250 mL	ICP-AM-15-250	
			500 mL	ICP-AM-15-500	
Calcium, Iron, Magnesium, Potassium, Sodium	1,000 µg/mL	5% HNO <sub>3</sub>	100 mL	ICP-AM-16-100	
			250 mL	ICP-AM-16-250	
			500 mL	ICP-AM-16-500	
Aluminum, Calcium, Iron, Magnesium, Phosphorus, Potassium, Sodium	1,000 µg/mL	5% HNO <sub>3</sub>	100 mL	ICP-AM-17-100	
			250 mL	ICP-AM-17-250	
			500 mL	ICP-AM-17-500	
Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Ytterbium, Yttrium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-AM-MISA5-100	
			250 mL	ICP-AM-MISA5-250	
			500 mL	ICP-AM-MISA5-500	
Aluminum, Barium, Boron, Cadmium, Calcium, Cesium, Chromium, Cobalt, Copper, Gallium, Indium, Iron, Lead, Lithium, Magnesium, Manganese, Nickel, Phosphorus, Potassium, Rubidium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc	100 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-AM-MISA6-100	
			250 mL	ICP-AM-MISA6-250	
			500 mL	ICP-AM-MISA6-500	

## ICP Multi-Component Standards - Calibration Standards

Components	Concentration	Matrix	Volume	Part #
Beryllium	50 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-MCS-1-100
Boron, Cadmium, Manganese, Zinc	100 µg/mL		250 mL	ICP-MCS-1-250
Selenium	200 µg/mL		500 mL	ICP-MCS-1-500
Arsenic, Lead	500 µg/mL			
Barium, Calcium, Cobalt, Iron, Magnesium, Nickel, Silicon, Vanadium	100 µg/mL	2% HNO <sub>3</sub>	100 mL	ICP-MCS-2-100
			250 mL	ICP-MCS-2-250
			500 mL	ICP-MCS-2-500
Chromium	20 µg/mL	5% HCl	100 mL	ICP-MCS-3-100
Molybdenum	100 µg/mL		250 mL	ICP-MCS-3-250
Aluminum, Antimony, Sodium	200 µg/mL		500 mL	ICP-MCS-3-500
Potassium	400 µg/mL			

\* Solution A and B can also be sold separately.



## ICP Multi-Component Standards - Calibration Standards (cont'd)

Components	Concentration	Matrix	Volume	Part #			
Strontium	10 µg/mL	2% HNO <sub>3</sub>	100 mL 250 mL 500 mL	ICP-MCS-8-100 ICP-MCS-8-250 ICP-MCS-8-500			
Chromium, Nickel	20 µg/mL						
Lithium	100 µg/mL						
Aluminum, Sodium	200 µg/mL						
Potassium	400 µg/mL						
Calcium	1,000 µg/mL						
Beryllium	50 µg/mL	4% HNO <sub>3</sub>	100 mL 250 mL 500 mL	ICP-MCS-10-100 ICP-MCS-10-250 ICP-MCS-10-500			
Copper	250 µg/mL						
Cobalt, Vanadium	500 µg/mL						
Iron	1,000 µg/mL						
Aluminum, Barium	2,000 µg/mL						
Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Uranium, Ytterbium, Yttrium	100 µg/mL	5% HNO <sub>3</sub>	100 mL 250 mL 500 mL	ICP-MCS-11-100 ICP-MCS-11-250 ICP-MCS-11-500			
Gold, Iridium, Palladium, Platinum, Rhodium, Ruthenium	100 µg/mL				10% HCl	100 mL 250 mL	ICP-MCS-12-100 ICP-MCS-12-250

## ICP Multi-Component Standards - Working Calibration Standards

Components	Concentration	Matrix	Volume	Part #
Beryllium, Silver	1 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL 250 mL 500 mL	ICP-WS-1-100 ICP-WS-1-250 ICP-WS-1-500
Aluminum, Antimony, Arsenic, Iron, Lead, Molybdenum, Selenium, Thallium, Tin, Titanium, Zinc	10 µg/mL			
Barium, Bismuth, Boron, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Strontium, Vanadium	10 µg/mL			
Calcium, Magnesium, Potassium, Sodium	50 µg/mL	2% HNO <sub>3</sub>	100 mL 250 mL 500 mL	ICP-WS-2-100 ICP-WS-2-250 ICP-WS-2-500
Gold, Iridium, Osmium, Palladium, Rhodium, Ruthenium	10 µg/mL			
Platinum, Tellurium	50 µg/mL	5% HCl	100 mL 250 mL 500 mL	ICP-WS-3-100 ICP-WS-3-250 ICP-WS-3-500
Cerium, Dysprosium, Erbium, Europium, Gadolinium, Holmium, Lanthanum, Lutetium, Neodymium, Praseodymium, Samarium, Scandium, Terbium, Thorium, Thulium, Uranium, Ytterbium, Yttrium	10 µg/mL			

## ICP Multi-Component Standards - EPA Method Standards

Components		Concentration	Matrix	Volume	Part #	
Antimony		1,000 µg/mL	5% Tartaric Acid + 2% HNO <sub>3</sub>	100 mL	CLP-CAL-2-100	
				250 mL	CLP-CAL-2-250	
Barium, Beryllium, Chromium, Cobalt, Copper, Manganese, Vanadium		50 µg/mL	2% HNO <sub>3</sub>	100 mL	ANALCS-100	
Cadmium, Lead, Nickel, Silver, Zinc		100 µg/mL		250 mL	ANALCS-250	
				500 mL	ANALCS-500	
Lead, Selenium		5 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	ANALCS-R-100	
Arsenic, Thallium		10 µg/mL				
Silver		20 µg/mL				
Barium, Beryllium, Chromium, Cobalt, Copper, Manganese, Vanadium		50 µg/mL				
Antimony		60 µg/mL				
Cadmium, Nickel, Zinc		100 µg/mL				
Solution A*	Beryllium	50 µg/mL	4% HNO <sub>3</sub>	2 solution set at 100 mL each	CLP-CAL-1-100	
	Chromium	200 µg/mL				
	Copper	250 µg/mL				
	Cobalt, Manganese, Nickel, Vanadium, Zinc			500 µg/mL	2 solution set at 250 mL each	CLP-CAL-1-250
	Iron			1,000 µg/mL		
	Aluminum, Barium			2,000 µg/mL		
	Calcium, Potassium, Magnesium, Sodium			5,000 µg/mL		
Solution B*	Silver	250 µg/mL				
Beryllium		25 µg/mL	4% HNO <sub>3</sub>	100 mL	CLP-CV-1-100	
Chromium		100 µg/mL				
Copper, Silver		125 µg/mL				
Cobalt, Manganese, Nickel, Vanadium, Zinc		250 µg/mL				
Iron		500 µg/mL				
Aluminum, Barium		1,000 µg/mL				
Calcium, Magnesium, Potassium, Sodium		2,500 µg/mL				
Iron		2,000 µg/mL	5% HNO <sub>3</sub>	100 mL	CLP-INF-1-100	
				250 mL	CLP-INF-1-250	
Aluminum, Calcium, Magnesium		5,000 µg/mL		500 mL	CLP-INF-1-500	
Beryllium, Cadmium, Silver		5 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	CLP-SS-100	
Chromium		20 µg/mL				
Copper		25 µg/mL				
Antimony, Cobalt, Lead, Manganese, Nickel, Vanadium, Zinc		50 µg/mL				
Iron		100 µg/mL				
Aluminum, Arsenic, Barium, Selenium, Thallium		200 µg/mL				

\* Solution A and B can also be sold separately.

**ICP Multi-Component Standards - EPA Method Standards (cont'd)**

Components		Concentration	Matrix	Volume	Part #
Lead		6 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	CRDL-100
Beryllium, Cadmium, Selenium		10 µg/mL			
Arsenic, Chromium, Silver, Thallium		20 µg/mL			
Manganese		30 µg/mL			
Zinc		40 µg/mL			
Copper		50 µg/mL		250 mL	CRDL-250
Nickel		80 µg/mL			
Cobalt, Vanadium		100 µg/mL			
Antimony		120 µg/mL			
Solution A*	Chromium, Nickel, Zinc	500 µg/mL	2% HNO <sub>3</sub>	2 solution set at 100 mL each	ICP-200.7-1-100
	Aluminum, Calcium, Magnesium, Potassium, Sodium	1,000 µg/mL		2 solution set at 250 mL each	ICP-200.7-1-250
Solution B*	Silver	500 µg/mL		2 solution set at 500 mL each	ICP-200.7-1-500
Silver		2.5 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	ICP-200.7-5-100
Beryllium, Mercury		5 µg/mL			
Cadmium, Cobalt, Molybdenum, Tin, Vanadium		10 µg/mL		250 mL	ICP-200.7-5-250
Aluminum, Antimony, Arsenic, Barium, Boron, Chromium, Copper, Iron, Lead, Lithium, Manganese, Nickel, Selenium, Silicon, Strontium, Thallium, Zinc		25 µg/mL			
Phosphorus		50 µg/mL			
Solution A*	Silver	5 µg/mL	2% HNO <sub>3</sub> + Tr HF	2 solution set at 100 mL each	ICP-200.7-6-100
	Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Selenium, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc	20 µg/mL		2 solution set at 250 mL each	ICP-200.7-6-250
	Phosphorus, Potassium, Silicon	100 µg/mL		2 Solution set at 500 mL each	ICP-200.7-6-500
Solution B*	Mercury	20 µg/mL	5% HNO <sub>3</sub>		
Silver		25 µg/mL	5% HNO <sub>3</sub>	100 mL	ICP-200.7-10-100
Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Cerium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Nickel, Selenium, Thallium, Vanadium, Zinc		200 µg/mL			
				500 mL	ICP-200.7-10-500
Phosphorus, Potassium		1,000 µg/mL			

\* Solution A and B can also be sold separately.

**ICP Multi-Component Standards - EPA Method Standards (cont'd)**

Components	Concentration	Matrix	Volume	Part #
Silver	1.5 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	ICP-SS-100
Thallium	10 µg/mL			
Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Tin, Vanadium	20 µg/mL			
Arsenic, Lead	25 µg/mL			
Antimony, Selenium	50 µg/mL			
Aluminum, Iron, Strontium, Zinc	100 µg/mL			
Potassium	150 µg/mL			
Magnesium, Silicon	500 µg/mL			
Calcium, Sodium	2,000 µg/mL			
Beryllium, Cadmium, Silver	5 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	ICP-SSWS-100
Chromium	20 µg/mL			
Copper	25 µg/mL			
Antimony, Cobalt, Lead, Manganese, Nickel, Vanadium, Zinc	50 µg/mL			
Iron	100 µg/mL			
Aluminum, Arsenic, Barium, Selenium, Thallium	200 µg/mL			
Selenium	1 µg/mL	2% HNO <sub>3</sub> + Tr HF	100 mL	ICP-SSWS-M-100
Lead	2 µg/mL			
Arsenic	4 µg/mL			
Beryllium, Cadmium, Silver, Thallium	5 µg/mL			
Chromium	20 µg/mL			
Copper	25 µg/mL			
Antimony, Cobalt, Manganese, Nickel, Vanadium, Zinc	50 µg/mL			
Iron	100 µg/mL			
Aluminum, Barium	200 µg/mL			
			500 mL	ICP-SSWS-M-500

## ICP Multi-Component Standards - Check Verification Standards

Components		Concentration	Matrix	Volume	Part #
Solution A*	Barium, Beryllium, Cadmium, Chromium, Cobalt, Manganese, Vanadium, Zinc	50 µg/mL	4% HNO <sub>3</sub> + Tr HF	2 solution set at 100 mL each	ICV-1-100
	Aluminum, Arsenic, Bismuth, Boron, Calcium, Copper, Iron, Lead, Lithium, Magnesium, Molybdenum, Nickel, Strontium, Thallium	100 µg/mL			
	Phosphorus, Potassium, Selenium	200 µg/mL			
Solution B*	Silicon	100 µg/mL	H <sub>2</sub> O	2 solution set at 500 mL each	ICV-1-500
	Sodium	160 µg/mL			
	Sulfur	200 µg/mL			
Antimony, Tin, Titanium		100 µg/mL	15% HCl	100 mL 250 mL 500 mL	ICV-2-100 ICV-2-250 ICV-2-500
Beryllium, Cadmium, Lead, Selenium		5 µg/mL	4% HNO <sub>3</sub> + Tr HF	100 mL       500 mL	ICV-4-100       ICV-4-500
Arsenic, Chromium, Silver, Thallium		10 µg/mL			
Manganese		15 µg/mL			
Zinc		20 µg/mL			
Copper		25 µg/mL			
Nickel		40 µg/mL			
Cobalt, Vanadium		50 µg/mL			
Antimony		60 µg/mL			
Iron		100 µg/mL			
Aluminum, Barium		200 µg/mL			
Calcium, Magnesium, Potassium, Sodium		5,000 µg/mL			
Solution A*	Chromium	50 µg/mL			
	Barium, Beryllium, Cadmium, Cobalt, Manganese, Vanadium, Zinc	100 µg/mL			
	Aluminum, Arsenic, Bismuth, Boron, Calcium, Copper, Iron, Lead, Lithium, Magnesium, Molybdenum, Nickel, Selenium, Strontium, Thallium	200 µg/mL			
	Phosphorus, Potassium	500 µg/mL			
Solution B*	Silicon, Sodium**, Sulfur	500 µg/mL	H <sub>2</sub> O		
Gold, Palladium, Platinum		100 µg/mL	2% HCl	100 mL 250 mL 500 mL	CCV-3-100 CCV-3-250 CCV-3-500

\* Solution A and B can also be sold separately.

\*\* Concentration varies slightly.

## ICP Multi-Component Standards - Interference Check Standards

Components		Concentration	Matrix	Volume	Part #
Solution A*	Mercury	50 µg/mL	4% HNO <sub>3</sub>	2 solution set at 100 mL each	INFCS-1-100
	Beryllium	100 µg/mL			
	Manganese	200 µg/mL			
	Barium, Cadmium, Chromium, Cobalt, Copper, Nickel, Vanadium, Zinc	300 µg/mL		2 solution set at 250 mL each	INFCS-1-250
	Selenium	500 µg/mL			
	Arsenic, Lead, Thallium	1,000 µg/mL			
	Potassium	20,000 µg/mL			
Solution B*	Silver	300 µg/mL	2 solution set at 500 mL each	INFCS-1-500	
Antimony		1,000 µg/mL	20% HCl	100 mL	INFCS-2-100
				250 mL	INFCS-2-250
				500 mL	INFCS-2-500
Aluminum, Calcium, Iron, Magnesium		5,000 µg/mL	5% HNO <sub>3</sub>	100 mL	INFCS-4-100
				250 mL	INFCS-4-250
				500 mL	INFCS-4-500
Potassium, Sodium		5,000 µg/mL	2% HCl	100 mL	INFCS-5-100
				500 mL	INFCS-5-500
Sodium		1,000 µg/mL	4% HNO <sub>3</sub>	100 mL	INFCS-6-100
Aluminum		1,200 µg/mL			
Magnesium		3,000 µg/mL			
Iron		5,000 µg/mL			
Calcium		6,000 µg/mL			
Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium		1,000 µg/mL	5% HNO <sub>3</sub>	100 mL	INFCS-7-100
				250 mL	INFCS-7-250
				500 mL	INFCS-7-500

## ICP Multi-Component Standards - Quality Control Standards

Components		Concentration	Matrix	Volume	Part #
Solution A*	Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Iron, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Uranium, Vanadium, Zinc	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	2 solution set at 100 mL each	QCS-1-100
	Yttrium	500 µg/mL		2 solution set at 250 mL each	QCS-1-250
Solution B*	Sulfur	100 µg/mL		H <sub>2</sub> O	2 solution set at 500 mL each

\* Solution A and B can also be sold separately.

## ICP Multi-Component Standards - Quality Control Standards (cont'd)

Components	Concentration	Matrix	Volume	Part #		
Silicon	50 µg/mL	2% HNO <sub>3</sub>	100 mL	QCS-7-100		
Aluminum, Barium, Boron, Silver, Sodium	100 µg/mL		250 mL	QCS-7-250		
Potassium	1,000 µg/mL		500 mL	QCS-7-500		
Silver	50 µg/mL	2% HNO <sub>3</sub>	100 mL	QCS-7-M-100		
Aluminum, Barium, Boron, Silicon, Sodium	100 µg/mL		250 mL	QCS-7-M-250		
Potassium	1,000 µg/mL		500 mL	QCS-7-M-500		
Antimony, Arsenic, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Selenium, Thallium, Titanium, Vanadium, Zinc	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	100 mL	QCS-19-100		
			250 mL	QCS-19-250		
			500 mL	QCS-19-500		
Antimony, Arsenic, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Selenium, Strontium, Thallium, Titanium, Vanadium, Zinc	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	100 mL	QCS-21-100		
			250 mL	QCS-21-250		
			500 mL	QCS-21-500		
Silicon	50 µg/mL	4% HNO <sub>3</sub> + Tr HF	100 mL	QCS-26-100		
Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc	100 µg/mL				250 mL	QCS-26-250
					500 mL	QCS-26-500
Potassium	1,000 µg/mL					
Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc	100 µg/mL	5% HNO <sub>3</sub> + Tr HF	100 mL	QCS-26-R-100		
			250 mL	QCS-26-R-250		
			500 mL	QCS-26-R-500		
Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Thallium, Titanium, Vanadium, Zinc	100 µg/mL	4% HNO <sub>3</sub> + Tr HF	100 mL	QCS-27-100		
			250 mL	QCS-27-250		
			500 mL	QCS-27-500		

## ICP Multi-Component Standards - Wavelength Calibration Solutions

Components	Concentration	Matrix	Volume	Part #
Arsenic, Lanthanum, Lithium, Manganese, Molybdenum, Nickel, Scandium, Sodium	20 µg/mL	2% HCl	100 mL	WAVECAL-100
			250 mL	WAVECAL-250
			500 mL	WAVECAL-500
Aluminum, Arsenic, Barium, Cadmium, Cobalt, Chromium, Copper, Manganese, Molybdenum, Nickel, Lead, Selenium, Strontium, Zinc	50 µg/mL	5% HNO <sub>3</sub>	100 mL	WAVECAL-2-100
			250 mL	WAVECAL-2-250
			500 mL	WAVECAL-2-500
Potassium	500 µg/mL			
Barium, Calcium	1 µg/mL	2% HNO <sub>3</sub>	100 mL	WAVECAL-PE-100
Lanthanum, Lithium, Manganese, Sodium, Strontium	10 µg/mL		250 mL	WAVECAL-PE-250
Potassium	50 µg/mL		500 mL	WAVECAL-PE-500

