

2026 Product List

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This downloadable version of the SRM Product List is updated annually.
For the latest product availability go to the NIST Store, <https://shop.nist.gov>.

Chemical Composition Ferrous Metals

Plain Carbon Steels (chip form)

SRM	Description	Unit of Issue
8k	Bessemer Steel (Simulated) 0.1 % Carbon	150 g
12h	Basic Open-Hearth Steel, 0.4% Carbon	150 g
13g	0.6% Carbon Steel	150 g
14g	Carbon Steel (AISI 1078)	150 g
16f	Basic Open-Hearth Steel, 1% Carbon	150 g
19h	Basic Electric Steel, 0.2% Carbon	150 g
20g	AISI 1045 Steel	150 g
152a	Basic Open-Hearth Steel 0.5% Carbon (Tin Bearing)	150 g
178	0.4C Basic Oxygen Furnace Steel	150 g
368	Carbon Steel (AISI 1211)	150 g

See [Table 101.1](#) on the website for more information.

Low Alloy Steels (chip form)

SRM	Description	Unit of Issue
30f	Cr-V Steel (SAE 6150)	150 g
33e	Nickel Steel	150 g
72g	Low Alloy Steel (AISI 4130)	150 g
100b	Manganese Steel	150 g
125b	LA Steel, High Silicon	100 g
129c	LA Steel, High Sulfur (SAE 112)	150 g
131h	Refined Cast Iron	100 g
139b	Chromium-Nickel-Molybdenum Steel	150 g
155	Chromium-Tungsten Steel	150 g
163	Chromium Steel (granular form)	100 g
179	LA Steel, High Silicon	150 g
291	Cr-Mo Steel (ASTM A-213)	150 g
293	Cr-Ni-Mo (AISI 8620)	150 g
2171	LA Steel, (HSLA 100)	150 g

See [Table 101.2](#) on the website for more information

Special Low Alloy Steels (chip and pin forms)

SRM	Description	Unit of Issue
361	AISI 4340 Steel (chip form)	150 g
363	Chromium-Vanadium Steel (Modified)	150 g
2160	Low-Alloy Steel (pin form)	200 g
2161	Low Alloy Steel (chip form)	150 g
2162	Low Alloy Steel (chip form)	150 g
2163	Low Alloy Steel (chip form)	150 g
2164	Low Alloy Steel (chip form)	150 g
2165	Low Alloy Steel (chip form)	150 g
2166	Low Alloy Steel (chip form)	150 g
2167	Low Alloy Steel (chip form)	150 g
2168	High-Purity Iron (chip form)	150 g

See [Table 101.3](#) on the website for more information.

High Alloy Steels (chip form)

SRM	Description	Unit of Issue
126c	High-Nickel Steel (Nominal Mass Fraction 36 % Ni)	150 g
344	15 Chromium-7 Nickel Steel (Mo Precipitation Hardening)	150 g
345b	Fe-Cr-Ni Alloy UNS J92180	150 g
346a	Valve Steel	150 g
862	High-Temperature Alloy L 605	100 g

See [Table 101.4](#) on the website for more information

Gases in Ferrous Metals (rod and disk forms)

SRM	Description	Unit of Issue
1755	Nitrogen in Low Alloy Steel	disk

See [Table 101.5](#) on the website for more infor-

Stainless Steels (chip form)

SRM	Description	Unit of Issue
123c	Stainless Steel, Cr-Ni-Nb (AISI 348)	150 g
133b	Chromium-Molybdenum Steel	150 g
160b	Stainless Steel (Cr 18-Ni 12-Mo 2)(AISI 316)	150 g
166c	Low-Carbon Stainless Steel (AISI 316L)	100 g
339	17 Chromium-9 Nickel-0.2 Selenium Steel (granule form)	150 g
893	Stainless Steel (SAE 405)	150 g
895	Stainless Steel (SAE 201)	150 g

See [Table 101.6](#) on the website for more information.

Tool Steels (chip form)

SRM	Description	Unit of Issue
50c	Tungsten-Chromium-Vanadium Steel	150 g
132b	Tool Steel (AISI M2)	150 g
134a	Molybdenum-Tungsten-Chromium- Vanadium Steel	150 g

See [Table 101.7](#) on the website for more information.

Low Alloy Steels (disk and rod forms)

SRM	Description	Unit of Issue
663	Chromium-Vanadium Steel (Modified)	5 rods
1134	Low-Alloy High-Silicon Steel	disk
1135	LA Steel, High Silicon	disk
1218	LA Steel, High Silicon	disk
1224	LA Steel, Carbon (AISI 1078)	disk
1225	LA Steel (AISI 4130)	disk
1226	LA Steel	disk
1227	Basic Open-Hearth Steel, 1% Carbon	disk
1228	LA Steel, 0.1% C	disk
1264a	High-Carbon Steel (Modified)	disk
1265a	Electrolytic Iron	disk
1269	Line Pipe (AISI 1526 mod.)	disk
1270a	Low Alloy Steel, Cr-Mo, (A336) (F-22)	disk
1271	LA Steel (HSLA-100)	disk
1286	Low Alloy Steel (HY 80)	disk
1761a	Low Alloy Steel	disk
1762b	Low Alloy Steel	disk
1763b	Low Alloy Steel	disk
1764a	Low Alloy Steel	disk
1765	Low Alloy Steel	disk
1766	Low Alloy Steel	disk
1767	Low Alloy Steel	disk
1768	High-Purity Iron	disk

See [Table 101.8](#) on the website for more information.

High-Temperature Alloys (chip and disk forms)

SRM	Description	Unit of Issue
866	Incoloy 800	100 g
867	Ni-Fe-Cr Alloy UNS N08825	100 g
1230	High-Temperature Alloy A286	disk
1246	Incoloy 800	disk
1247	Ni-Fe-Cr Alloy UNS N08825	disk
1250	High-Temperature Alloy (Fe-Ni-Co)	disk
C2400	Fe-Cr-Ni Alloy UNS J92180	disk

See [Table 101.9](#) on the website for more information

Stainless Steels (disk form)

SRM	Description	Unit of Issue
C1151a	Stainless Steel 23Cr-7Ni	disk
C1153a	Stainless Steel 17Cr-9Ni	disk
C1154a	Stainless Steel 19Cr-13Ni	disk
1155a	Stainless Steel (Cr 18 Ni 12 Mo 2)(AISI 316)	disk
1171	Stainless Steel Cr 17-Ni 11-Ti 0.3 (AISI 321)	disk
1172	Stainless Steel Cr 17-Ni 11-Nb 0.6 (AISI 348)	disk
1219	Stainless Steel Cr16 - Ni2(AISI 431)	disk
1223	Chromium Steel	disk
1295	Stainless Steel (SAE 405)	disk
C1296	Stainless Steel	disk
1297	Stainless Steel (SAE 201)	disk

See [Table 101.10](#) on the website for more information.

Specialty Steels (disk form)

SRM	Description	Unit of Issue
1157	Tool Steel (AISI M2)	disk
1158	High-Nickel Steel (Nominal Mass Fraction 36 % Ni)	disk
1772	Tool Steel (S-7)	disk

See [Table 101.11](#) on the website for more information.

Steelmaking Alloys (powder form)

SRM	Description	Unit of Issue
57b	Silicon Metal	40 g
58a	Ferrosilicon (73% Si Regular Grade)	75 g
59a	Ferrosilicon Grade E1	50 g
64c	Ferrochromium High Carbon	100 g
68c	Standard Ferromanganese	100 g
90	Ferrophosphorus	75 g
195	Ferrosilicon (75% Si-High-Purity Grade)	75 g
196	Ferrochromium Low Carbon	100 g
689	Ferrochromium Silicon	100 g

See [Table 101.12](#) on the website for more information.

Cast Irons (chip form)

SRM	Description	Unit of Issue
4l	Cast Iron	150 g
5m	Cast Iron	150 g
6g	Cast Iron	150 g
107c	Cast Iron (Ni-Cr-Mo)	150 g
115a	Copper-Nickel-Chromium Cast Iron	150 g
122i	Cast Iron	150 g
334	Gray Cast Iron	150 g
341	Ductile Cast Iron	150 g
342a	Nodular Cast Iron	150 g
892	High-Alloy White Cast Iron (Ni-Hard, Type IV)	150 g

See [Table 101.13](#) on the website for more information.

Cast Steels, White Cast Irons, and Ductile Irons (disk and block forms)

SRM	Description	Unit of Issue
C1137a	White Cast Iron	disk
1138a	Cast Steel Standard	block
C1145a	White Cast Iron	disk
1173	Ni-Cr-Mo-V Steel	disk
C1173	Cast Steel 3	disk
C1290	High-Alloy White Cast Iron (HC-250+V)	disk
C1291	High-Alloy White Cast Iron (Ni-Hard, Type I)	disk
C1292	High-Alloy White Cast Iron I (Ni-Hard, Type IV)	disk
C2424	Ductile Iron C	disk

See [Table 101.14](#) on the website for more information.

Aluminum Base Alloys (chip and disk forms)

SRM	Description	Unit of Issue
87a	Silicon-Aluminum Alloy	75 g
853a	Aluminum Alloy 3004 (chip form)	25 g
854a	Aluminum Alloy 5182 (chip form)	25 g
855a	Aluminum Casting Alloy 356	30 g
856a	Aluminum Casting Alloy 380	30 g
858	Aluminum Alloy 6011	35 g
1240c	Aluminum Alloy 3004	disk
1241c	Aluminum Alloy 5182	disk
1256b	Aluminum Alloy 380	disk
1258-I	Aluminum Alloy 6011 (Modified)	disk
1259	Aluminum Alloy 7075	disk
2426	55 % Aluminum-Zinc Alloy	40 g

See [Table 102.1](#) on the website for more information.

Copper Base Alloys (chip, granule, and rod forms)

SRM	Description	Unit of Issue
158a	Silicon Bronze	150 g
458	Beryllium-Copper (17510)	50 g
459	Beryllium-Copper (17200)	50 g
460	Beryllium-Copper Alloy	50 g
871	Phosphor Bronze (CDA 521)	100 g
872	Phosphor Bronze (CDA 544)	100 g
874	Cupro-Nickel, 10% (CDA 706) "HIGH-PURITY"	100 g
875	Cupro-Nickel, 10% (CDA 706) "DOPED"	100 g
880	Nickel Silver (CDA 770) (granular form)	100 g
1034	Unalloyed Copper	rod
1035	Leaded-Tin Bronze Alloy	50 g

See [Table 102.3](#) on the website for more information.

Cobalt Base Alloys (chip and disk forms)

SRM	Description	Unit of Issue
862	High-Temperature Alloy L 605	100 g
1242	High Temperature Alloy L 605	disk
1775	Refractory Alloy MP-35-N	disk
2175	Refractory Alloy MP-35-N	150 g

See [Table 102.2](#) on the website for more information.

Copper Bench- mark" (block, chip, and rod

SRM	Description	Unit of Issue
399	Unalloyed Copper - Cu VI	50 g
454	Unalloyed Copper XI (chips)	35 g
457	Unalloyed Copper IV (solid)	rod
494	Unalloyed Copper I (solid)	rod
495	Unalloyed Copper II (solid)	rod
498	Unalloyed Copper V (solid)	rod
500	Unalloyed Copper - Cu VII	rod
C1251a	Phosphorus Deoxidized Copper -Cu VIII	block
C1252a	Phosphorus Deoxidized Copper -Cu IX	block
C1253a	Phosphorus Deoxidized Copper - Cu X	block

See [Table 102.5](#) on the website for more infor-

Copper Base Alloys (block and disk forms)

SRM	Description	Unit of Issue
1107	Naval Brass UNS 46400	disk
1115	Commercial Bronze Standard for Optical Emission and X-ray Spectroscopic Analysis	disk
1124	Free Cutting Brass (UNS C36000)	1 disk
C1251a	Phosphorus Deoxidized Copper -Cu VIII	block
C1252a	Phosphorus Deoxidized Copper -Cu IX	block
C1253a	Phosphorus Deoxidized Copper - Cu X	block
1276a	Cupro-Nickel (CDA 715)	disk

See [Table 102.4](#) on the website for more information.

Lead-Base Alloys

SRM	Description	Unit of Issue
53e	Lead-Base Bearing Metal (84Pb-10Sb-6Sn)	150 g
127b	Solder (40Sn-60Pb)	150 g
1129	Solder (63Sn-37Pb)	200 g
1131	Solder (40Sn - 60Pb)	disk
1132	Lead-Base Bearing Metal (84 Pb-10 Sb-6 Sn)	disk
C2415a	Battery Lead (UNS 52770)	disk
C2416	Bullet Lead	disk
C2417	Lead-Base Alloy	disk

See [Table 102.10](#) on the website for more information.

Nickel Base Alloys (chip, disk, and granule forms)

SRM	Description	Unit of Issue
349a	Ni-Cr-Co Alloy UNS N07001	150 g
861	Nickel-based Superalloy PWA 1484 (chip form)	50 g
864	Nickel Alloy UNS N06600 (chip form)	100 g
865	Inconel 625	150 g
882	Nickel-Copper Alloy (65Ni-31Cu-3Al) (granule form)	100 g
897	Tracealloy A	35 g
899	Tracealloy C	35 g
1159	Electronic and Magnetic Alloy Standard	disk
1160	Elec/Mag Ni-Mo-Fe	disk
1243	Ni-Cr-Co Alloy UNS N07001	disk
1244	Nickel Alloy UNS N06600	disk
C1248	Nickel-Copper Alloy	disk
1249	Ni-Cr-Fe-Nb-Mo Alloy UNS N07718	disk
1775	Refractory Alloy MP-35-N	disk
2175	Refractory Alloy MP-35-N	150 g

See [Table 102.12](#) on the website for more information.

Tin Base Alloys (powder, block, and disk forms)

SRM	Description	Unit of Issue
54d	Bearing Metal (Tin Base)	75 g
1727	Anode Tin	block
1728	Tin Alloy (Sn-3Cu-0.5Ag)	disk
1729	Tin Alloy (97 Sn - 3 Pb)	disk

See [Table 102.15](#) on the website for more information.

Titanium Base Alloys (chip and disk forms)

SRM	Description	Unit of Issue
<u>173c</u>	Titanium Alloy UNS R56400 (chip form)	50 g
<u>647</u>	Titanium Alloy, Al-Mo-Sn-Zr	50 g
<u>648</u>	Titanium-Base Alloy 5Al-2Sn-2Zr-4Cr-4Mo	50 g
<u>649</u>	Titanium-Base Alloy (15V-3Al-3Cr-3Sn)	50 g
<u>654b</u>	Titanium Alloy, Al-V	disk
<u>1128</u>	Titanium -Base Alloy (15V-3Al-3Cr-3Sn)	disk
<u>2061</u>	TiAl(NbW) Alloy for Microanalysis	cube
<u>2431</u>	Titanium Base Alloy	50 g
<u>2432</u>	Titanium-Base Alloy 10V - 2Fe - 3Al	50 g
<u>2433</u>	Titanium-Base Alloy 8Al-1Mo-1V	50 g
<u>2452</u>	Hydrogen In Titanium Alloy (Nominal Mass Fraction 60 mg/kg H) (chip form)	10 g
<u>2453a</u>	Hydrogen In Titanium Alloy (Nominal Mass Fraction 125 mg/kg H)	10 g
<u>2454a</u>	Hydrogen in Titanium Alloy (Nominal Mass Fraction 215 mg/kg H) (pin form)	10 g

See [Table 102.16](#) on the website for more infor-

Zinc Base Alloys (block, chip, and disk forms)

SRM	Description	Unit of Issue
<u>625</u>	Zinc-Base Die-Casting Alloy A	block
<u>626</u>	Zinc-Base Die-Casting Alloy B	block
<u>627</u>	Zinc-Base Die-Casting Alloy C	block
<u>628</u>	Zinc-Base Die-Casting Alloy D	block
<u>629</u>	Zinc-Base Die-Casting Alloy E	block
<u>630</u>	Zinc-Base Die-Casting Alloy F	block
<u>631</u>	Spectrographic Zinc Spelter (Modified)	block
<u>1740</u>	Zinc-Aluminum Alloy	disk
<u>1741</u>	Zinc-Aluminum Alloy	disk
<u>2139</u>	Zinc-Aluminum Alloy	100 g
<u>2426</u>	55 % Aluminum-Zinc Alloy	40 g

See [Table 102.17](#) on the website for more information.

Zirconium Base Alloys (chip form)

SRM	Description	Unit of Issue
<u>360c</u>	Zirconium (Sn-Fe-Cr) Alloy	100 g
<u>1229</u>	Zirconium (Sn-Fe-Cr) Alloy UNS R60804	block

See [Table 102.18](#) on the website for more information.

Metals (rod, wire, disk, and cube forms)

SRM	Description	Unit of Issue
<u>480</u>	Tungsten 20 % - Molybdenum Alloy Electron Microprobe Standard	disk
<u>481</u>	Gold-Silver Wires for Microprobe Analysis	set (6)
<u>482</u>	Gold-Copper Wires for Microprobe Analysis	set (6)
<u>2061</u>	TiAl(NbW) Alloy for Microanalysis	cube

See [Table 103.1](#) on the website for more information.

Synthetic Glass for Microanalysis (rod and microsphere forms)

SRM	Description	Unit of Issue
<u>2066</u>	K-411 Glass Microspheres	50 mg

See [Table 103.2](#) on the website for more information.

Semiconductor Thin Film for the Composition of Thin Films

SRM	Description	Unit of Issue
<u>2841</u>	Semiconductor Thin Film: $\text{Al}_x\text{Ga}_{1-x}\text{As}$ Epitaxial Layers (Al mole fraction x near 0.20)	disk

See [Table 103.4](#) on the website for more information.

High-Purity Metals (solid forms)

SRM	Description	Unit of Issue
<u>682</u>	High-Purity Zinc	half-round bar
<u>683</u>	Zinc, Metal	half-round bar
<u>728</u>	Intermediate-Purity Zinc	pellet form, 450 g
<u>885</u>	Refined Copper	pin form, 200 g

See [Table 104.1](#) on the website for more information.

Microchemistry (powder form)

SRM	Description	Unit of Issue
<u>141e</u>	Acetanilide	2 g
<u>143d</u>	Cystine (L-Cystine)	2 g
<u>2141</u>	Urea	2 g
<u>2143</u>	<i>p</i> -Fluorobenzoic Acid	2 g
<u>2144</u>	<i>m</i> -Chlorobenzoic Acid	2 g

See [Table 104.4](#) on the website for more information.

Stoichiometry (powder form)

SRM	Description	Unit of Issue
<u>17g</u>	Sucrose Optical Rotation	60 g
<u>84l</u>	Potassium Hydrogen Phthalate	60 g
<u>136f</u>	Potassium Dichromate (Oxidimetric Standard)	60 g
<u>350c</u>	Benzoic Acid (Acidimetric Standard)	30 g
<u>351a</u>	Sodium Carbonate (Acidimetric Standard)	50 g
<u>723e</u>	Tris (hydroxymethyl) aminomethane (HOCH ₂) ₃ CNH ₂ Acidimetric Standard	50 g
<u>917d</u>	D-Glucose (Dextrose)	50 g
<u>973</u>	Boric Acid (Acidimetric Standard)	100 g
<u>999c</u>	Potassium Chloride Primary Standard	30 g
<u>8040a</u>	Sodium Oxalate (Reductometric Standard)	60 g

See [Table 104.3](#) on the website for more information.

Spectrometry, Single-Element Standard Solutions

SRM	Description	Unit of Issue
<u>3101a</u>	Aluminum (Al) Standard Solution	5 × 10 mL
<u>3102a</u>	Antimony (Sb) Standard Solution	50 mL
<u>3103a</u>	Arsenic (As) Standard Solution	5 × 10 mL
<u>3104a</u>	Barium (Ba) Standard Solution	5 × 10 mL
<u>3105a</u>	Beryllium (Be) Standard Solution	5 × 10 mL
<u>3106</u>	Bismuth (Bi) Standard Solution	5 × 10 mL
<u>3107</u>	Boron (B) Standard Solution	50 mL
<u>3108</u>	Cadmium (Cd) Standard Solution	5 × 10 mL
<u>3109a</u>	Calcium (Ca) Standard Solution	5 × 10 mL
<u>3110</u>	Cerium (Ce) Standard Solution	5 × 10 mL
<u>3111a</u>	Cesium (Cs) Standard Solution	5 × 10 mL
<u>3112a</u>	Chromium (Cr) Standard Solution	5 × 10 mL
<u>3113</u>	Cobalt (Co) Standard Solution	5 × 10 mL
<u>3114</u>	Copper (Cu) Standard Solution	5 × 10 mL
<u>3115a</u>	Dysprosium (Dy) Standard Solution	5 × 10 mL
<u>3116a</u>	Erbium (Er) Standard Solution	5 × 10 mL
<u>3117a</u>	Europium (Eu) Standard Solution	5 × 10 mL
<u>3118a</u>	Gadolinium (Gd) Standard Solution	5 × 10 mL

Spectrometry, Single-Element Standard Solutions

SRM	Description	Unit of Issue
3119a	Gallium (Ga) Standard Solution	5 x 10 mL
3120a	Germanium (Ge) Standard Solution	50 mL
3121	Gold (Au) Standard Solution	5 x 10 mL
3122	Hafnium (Hf) Standard Solution	50 mL
3123a	Holmium (Ho) Standard Solution	5 x 10 mL
3124a	Indium (In) Standard Solution	5 x 10 mL
3126a	Iron (Fe) Standard Solution	5 x 10 mL
3127a	Lanthanum (La) Standard Solution	5 x 10 mL
3128	Lead (Pb) Standard Solution	5 x 10 mL
3129a	Lithium (Li) Standard Solution	5 x 10 mL
3130a	Lutetium (Lu) Standard Solution	5 x 10 mL
3131a	Magnesium (Mg) Standard Solution	5 x 10 mL
3132	Manganese (Mn) Standard Solution	5 x 9 mL
3133	Mercury (Hg) Standard Solution	5 x 10 mL
3134	Molybdenum (Mo) Standard Solution	5 x 10 mL
3135a	Neodymium (Nd) Standard Solution	5 x 10 mL
3136	Nickel (Ni) Standard Solution	5 x 10 mL
3137	Niobium (Nb) Standard Solution	50 mL
3138	Palladium (Pd) Standard Solution	5 x 10 mL
3139a	Phosphorus (P) Standard Solution	5 x 10 mL
3140	Platinum (Pt) Standard Solution	5 x 10 mL
3141a	Potassium (K) Standard Solution	5 x 10 mL
3142a	Praseodymium (Pr) Standard Solution	5 x 10 mL
3143	Rhenium (Re) Standard Solution	5 x 10 mL
3144	Rhodium (Rh) Standard Solution	5 x 10 mL
3145a	Rubidium (Rb) Standard Solution	5 x 10 mL

SRM	Description	Unit of Issue
3147a	Samarium (Sm) Standard Solution	5 x 10 mL
3148a	Scandium (Sc) Standard Solution	5 x 10 mL
3149	Selenium (Se) Standard Solution	5 x 10 mL
3150	Silicon (Si) Standard Solution	50 mL
3151	Silver (Ag) Standard Solution	5 x 10 mL
3152a	Sodium (Na) Standard Solution	50 mL
3153a	Strontium (Sr) Standard Solution	5 x 10 mL
3154	Sulfur (S) Standard Solution	5 x 10 mL
3155	Tantalum (Ta) Standard Solution	50 mL
3156	Tellurium (Te) Standard Solution	5 x 10 mL
3157a	Terbium (Tb) Standard Solution	5 x 10 mL
3158	Thallium (Tl) Standard Solution	5 x 10 mL
3160a	Thulium (Tm) Standard Solution	5 x 10 mL
3161a	Tin (Sn) Standard Solution	50 mL
3162a	Titanium (Ti) Standard Solution	50 mL
3163	Tungsten (W) Standard Solution	50 mL
3164	Uranium (U) Standard Solution (Radioactive)	5 x 10 mL
3165	Vanadium (V) Standard Solution	5 x 10 mL
3166a	Ytterbium (Yb) Standard Solution	5 x 10 mL
3167a	Yttrium (Y) Standard Solution	5 x 10 mL
3168a	Zinc (Zn) Standard Solution	5 x 10 mL
3169	Zirconium (Zr) Standard Solution	50 mL

See [Table 104.5](#) on the website for more information.

Arsenic Species Standard Solutions

SRM	Description	Unit of Issue
<u>3030</u>	Monomethylarsonic Acid Standard Solution	2 x 5 mL
<u>3031</u>	Dimethylarsinic Acid Standard Solution	2 x 5 mL
<u>3033</u>	Arsenobetaine Standard Solution	2 x 5 mL
<u>3034</u>	Arsenocholine Standard Solution	2 x 5 mL
<u>3036</u>	Arsenic Acid (AsV) Standard Solution	2 x 10 mL
<u>3037</u>	Arsenous Acid (AsIII) Standard Solution	2 x 10 mL
<u>3103a</u>	Arsenic (As) Standard Solution	5 x 10 mL

See [Table 104.6](#) on the website for more information.

Anion Chromatography (solution form)

SRM	Description	Unit of Issue
<u>3180</u>	Iodide Anion Standard Solution	5 x 5 mL
<u>3181</u>	Sulfate Anion (SO ₄ ²⁻) Standard Solution	5 x 10 mL
<u>3182</u>	Chloride Anion (Cl ⁻) Standard Solution	5 x 10 mL
<u>3183</u>	Fluoride Anion (F ⁻) Standard Solution	50 mL
<u>3184</u>	Bromide Anion (Br ⁻) Standard Solution	5 x 10 mL
<u>3185</u>	Nitrate Anion (NO ₃ ⁻) Standard Solution	5 x 10 mL
<u>3186</u>	Phosphate Anion (PO ₄ ³⁻) Standard Solution	5 x 10 mL

See [Table 104.8](#) on the website for more information.

Stable Isotopic Materials (solid and solution forms)

SRM	Description	Unit of Issue
<u>973</u>	Boric Acid (Acidimetric Standard)	100 g
<u>975a</u>	Isotopic Standard for Chlorine	0.25 g
<u>977</u>	Isotopic Standard for Bromine	0.25 g
<u>978a</u>	Assay-Isotopic Standard for Silver	0.25 g
<u>979</u>	Chromium Isotopic Standard	0.25 g
<u>980</u>	Isotopic Standard for Magnesium	0.25 g
<u>982</u>	Equal-Atom Lead Isotopic Standard	1 g wire
<u>984</u>	Rubidium Chloride	0.25 g
<u>986</u>	Isotopic Standard for Nickel	0.5 g
<u>987</u>	Strontium Carbonate Isotopic Standard	1 g
<u>994</u>	Isotopic Standard for Gallium	0.25 g
<u>3230</u>	Iodine-129 Isotopic Standard (Low Level)	5x5 mL
<u>3231</u>	Iodine-129 Isotopic Standard (High Level)	5x5 mL
<u>3328</u>	Lead (Pb) Isotopic Standard Solution	2 x 10 mL
<u>8599</u>	Henderson Molybdenite	10 g

See [Table 104.9](#) on the website for more information.

**Light Stable Isotopic Materials
(gas, liquid, and solid forms)**

SRM	Description	Unit of Issue
8301	Boron Isotopes in Marine Carbonate (Simulated Coral and Foraminifera Solutions)	6 x 4 mL
8529	IAEA-S-3 (Sulfur Isotopes in Silver Sulfide)	1 x 0.5 g
8535a	VSMOW2 Vienna Standard Mean Ocean Water (Hydrogen and Oxygen Isotopes in Water)	20 mL
8536	GISP-Water	20 mL
8537	SLAP-Water Light Stable Isotopic Standard	20 mL
8539	NBS22 Oil (Carbon and Hydrogen Isotopes in Oil)	1 mL
8540	IAEA-CH-7 (Carbon and Hydrogen Isotopes in Polyethylene Foil)	3.5 g
8541	USGS24 Graphite (Carbon Isotopes in Graphite)	0.8 g
8542	IAEA-CH-6 Sucrose (Carbon Isotopes in Sucrose)	1 g
8544	NBS 19 Limestone (Carbon and Oxygen Isotopes in Carbonate)	0.4 g
8545	LSVEC (Carbon, Oxygen, and Lithium Isotopes in Lithium Carbonate)	0.4 g
8546	NBS28 (Silicon and Oxygen Isotopes in Silica Sand)	0.4 g
8547	IAEA-N-1 (Nitrogen Isotopes in Ammonium Sulfate)	0.4 g
8548	IAEA-N-2 (Nitrogen Isotopes in Ammonium Sulfate)	0.4 g
8550	USGS25 (Nitrogen Isotopes in Ammonium Sulfate)	0.5 g
8551	USGS26 (Nitrogen Isotopes in Ammonium Sulfate)	0.5 g
8552	NSVEC (Nitrogen Isotopes in Gaseous Nitrogen)	300 µmol
8553	IAEA-S-4 (Sulfur Isotopes in Elemental Sulfur)	0.5 g
8554	IAEA-S-1 (Sulfur Isotopes in Silver Sulfide)	0.5 g
8555	IAEA-S-2 (Sulfur Isotopes in Silver Sulfide)	0.5 g

SRM	Description	Unit of Issue
8557	NBS127 (Sulfur and Oxygen Isotopes in Barium Sulfate)	0.5 g
8558	USGS32 (Nitrogen and Oxygen Isotopes in Nitrate)	0.9 g
8562	CO ₂ - ¹³ C-enriched, Paleomarine Origin (Carbon Dioxide)	set (2)
8563	CO ₂ - ¹³ C-depleted, Petrochemical Origin (Carbon Dioxide)	set (2)
8564	CO ₂ -Biogenic, Modern Biomass Origin (Carbon Dioxide)	set (2)
8568	USGS34 (Nitrogen and Oxygen Isotopes in Nitrate)	0.9 g
8569	USGS35 (Nitrogen and Oxygen Isotopes in Nitrate)	0.9 g
8574	L-glutamic Acid USGS41 (Heavy Carbon and Nitrogen Isotopes in L-glutamic Acid)	0.5 g

See [Table 104.10](#) on the website for more information.

**Clinical Laboratory Materials
(gas, liquid, and solid forms)**

SRM	Description	Unit of Issue
909c	Frozen Human Serum	3 x 2 mL
911c	Cholesterol	2 g
912b	Urea	25 g
913b	Uric Acid	10 g
914b	Creatinine	10 g
915c	Calcium Carbonate	20 g
916b	Bilirubin	100 mg
917d	D-Glucose (Dextrose)	50 g
918c	Potassium Chloride General and Ion Activity Standard	30 g
919b	Sodium Chloride	30 g
920	D-Mannitol	50 g
921a	Cortisol (Hydrocortisone)	1 g
924a	Lithium Carbonate	30 g
927a	Bovine Serum Albumin (7 % Solution) (Total Protein Standard)	10 x 2.2 mL
928	Lead Nitrate	30 g
929a	Magnesium Gluconate	5 g
955d	Toxic Metals and Metabolites in Frozen Human Blood	6 x 1.6 mL
956e	Electrolytes in Frozen Human Serum	6 x 2 mL
965c	Glucose in Frozen Human Serum	8 x 2 mL
967a	Creatinine in Frozen Human Serum	4 x 1 mL
968f	Fat-Soluble Vitamins in Frozen Human Serum	2 x 1 mL
971a	Hormones in Frozen Human Serum	4 x 2 mL
972a	Vitamin D Metabolites in Frozen Human Serum	4 x 1 mL
998	Angiotensin I (Human)	0.5 mg
1400	Bone Ash	50 g
1401	Trace Metals in Frozen Human Blood	4 x 1.6 mL
1486	Bone Meal	50 g
1507b	11-Nor-Delta-9-Tetrahydrocannabinol-9- Carboxylic Acid in Freeze-Dried Urine	set (3)
1595	Tripalmitin	2 g
1598a	Inorganic Constituents in Animal Serum	2 x 5 mL
1949	Frozen Human Prenatal Serum	8 vials (2 each level)
1950	Metabolites in Frozen Human Plasma	5 x 1 mL
1951c	Lipids in Frozen Human Serum	4 x 1 mL

SRM	Description	Unit of Issue
1955	Homocysteine and Folate in Frozen Human Serum	set (3)
1957	Organic Contaminants in Non-Fortified Human Serum (Freeze-Dried)	5 x 10.7 mL
1958	Organic Contaminants in Fortified Human Serum (Freeze-Dried)	5 x 10.7 mL
2365	BK Virus DNA Quantitative Standard	1 x 110 µL
2366a	Cytomegalovirus DNA (Towne _{Δ147} BAC) for DNA Measurements	1 x 150 µL
2378	Fatty Acids in Frozen Human Serum	3 x 1 mL
2389a	Amino Acids in 0.1 mol/L Hydrochloric Acid	5 x 1.2 mL
2668	Toxic Elements in Frozen Human Urine	10 x 1.5 mL
2669	Arsenic Species in Frozen Human Urine	10 x 1.5 mL
2921	Human Cardiac Troponin Complex	5 x 115 µL
2924	C-Reactive Protein Solution	3 x 1 mL
2925	Recombinant Human Serum Albumin Solution (Primary Reference Calibrator for Urine Albumin) (Frozen)	2 x 0.5 mL
2968	3-Epi-25-Hydroxyvitamin D3 Calibration Solution	5 x 1.2 mL
2969	Vitamin D Metabolites in Frozen Human Serum (Total 25-Hydroxyvitamin D Low Level)	2 x 1 mL
2970	"Vitamin D Metabolites in Frozen Human Serum (25-Hydroxyvitamin D2 High Level)"	2 x 1 mL
2972b	25-Hydroxyvitamin D Calibration Solutions	15 x 1.2 mL
2973	Vitamin D Metabolites in Frozen Human Serum (High Level)	2 x 1 mL
3030	Monomethylarsonic Acid Standard Solution	2 x 5 mL
3031	Dimethylarsinic Acid Standard Solution	2 x 5 mL
3033	Arsenobetaine Standard Solution	2 x 5 mL
3034	Arsenocholine Standard Solution	2 x 5 mL
3036	Arsenic Acid (AsV) Standard Solution	2 x 10 mL
3037	Arsenous Acid (AsIII) Standard Solution	2 x 10 mL
3655	Glycans in Solution (Frozen)	13 vials
3666	Albumin and Creatinine in Frozen Human Urine	4 x 1 mL
3667	Creatinine in Frozen Human Urine	1 x 10 mL
3668	Mercury, Perchlorate, and Iodide in Frozen Human Urine	10 x 1.5 mL
3669	Arsenic Species in Frozen Human Urine (Elevated Levels)	5 x 1.5 mL
3671	Nicotine Metabolites in Human Urine (Frozen)	3 x 10 mL
3672a	Organic Contaminants in Smokers' Urine (Frozen)	5 x 10 mL

See [Table 105.1](#) and [Table 105.2](#) on the website for more information.

Clinical Laboratory Materials (gas, liquid, and solid forms)

SRM	Description	Unit of Issue
3673a	Organic Contaminants in Non-Smokers' Urine (Frozen)	5 x 10 mL
3949	Folate Vitamers in Frozen Human Serum	3 x 1 mL
3950	Vitamin B in Frozen Human Serum	2 x 1 mL
3951	Fatty Acid Species in Frozen Human Serum	3 x 1 mL
8048	Human Fecal Material	8 x 1 mL (4 each)
8231	Frozen Human Plasma Suite for Metabolomics	6 x 2 mL (2 each)
8321	Peptide Mixture for Proteomics	3 x 50 µL
8323	Yeast Protein Extract	3 x 0.2 mL
8461	Human Liver for Proteomics	0.5 g
8642a	FDA Saxitoxin Dihydrochloride Solution	5 x 1.2 mL
8671	NISTmAb, Humanized IgG1K Mono-clonal Antibody	1 x 800 µL

See [Table 105.1](#) and [Table 105.2](#) on the website for more information.

Toxic Substances in Urine (frozen form)

SRM	Description	Unit of Issue
2668	Toxic Elements in Frozen Human Urine	set (10)
2669	Arsenic Species in Frozen Human Urine	set (10)
3668	Mercury, Perchlorate, and Iodide in Frozen Human Urine	set (10)
3669	Arsenic Species in Frozen Human Urine (Elevated Levels)	set (5)

See [Table 105.4](#) on the website for more information.

Respirable Materials on Filter Media

SRM	Description	Unit of Issue
2783	Air Particulate on Filter Media	2 + 2 Blank (47 mm dia)
2950a	Respirable Alpha Quartz on Filter Media (Nominal Mass of Alpha Quartz: 5 µg - 500 µg)	35 filters plus 35 blank s
2960	Respirable Cristobalite on Filter Media (Nominal Mass of Cristobalite: 5 µg - 250 µg)	30 filters plus 30 blank s
8785	Air Particulate Matter on Filter Media	3 filters
8786	Filter Blank for RM 8785	1 filter

See [Table 105.10](#) on the website for more information.

Vitamin D Metabolites for Clinical Laboratory Materials (serum, plasma, and calibration solutions)

SRM	Description	Unit of Issue
968f	Fat-Soluble Vitamins in Frozen Human Serum	2 x 1 mL
972a	Vitamin D Metabolites in Frozen Human Serum	4 x 1 mL
1949	Frozen Human Prenatal Serum	8 vials (2 each)
1950	Metabolites in Frozen Human Plasma	5 x 1 mL
2968	3-Epi-25-Hydroxyvitamin D3 Calibration Solution	5 x 1.2 mL
2969	Vitamin D Metabolites in Frozen Human Serum (Total 25-Hydroxyvitamin D Low Level)	2 x 1 mL
2970	Vitamin D Metabolites in Frozen Human Serum (25-Hydroxyvitamin D2 High Level)	2 x 1 mL
2972b	25-Hydroxyvitamin D Calibration Solutions	15 x 1.2 mL
2973	Vitamin D Metabolites in Frozen Human Serum (High Level)	2 x 1 mL

See [Table 105.5](#) on the website for more information.

Biomaterials (solid forms)

SRM	Description	Unit of Issue
2910b	Hydroxyapatite	2 g
8012	Gold Nanoparticles, Nominal 30 nm Diameter	2 x 5 mL

See [Table 105.9](#) on the website for more information.

Ethanol Solutions

SRM	Description	Unit of Issue
1828c	Ethanol-Water Solutions (Six Levels)	6 x 1.2 mL
2891	Ethanol-Water Solution (Nominal Mass Fraction 0.02 %)	5 x 1.2 mL
2892	Ethanol-Water Solution (Nominal Mass Fraction 0.04 %)	5 x 1.2 mL
2893a	Ethanol-Water Solution (Nominal Mass Fraction 0.08 %)	5 x 1.2 mL
2894	Ethanol-Water Solution (Nominal Mass Fraction 0.1 %)	5 x 1.2 mL
2895	Ethanol-Water Solution (Nominal Mass Fraction 0.2 %)	5 x 1.2 mL
2896	Ethanol-Water Solution (Nominal Mass Fraction 0.3 %)	5 x 1.2 mL
2897a	Ethanol-Water Solution (Nominal Mass Fraction 2 %)	5 x 10 mL
2898a	Ethanol-Water Solution (Nominal Mass Fraction 6 %)	5 x 10 mL
2899a	Ethanol-Water Solution (Nominal Mass Fraction 25 %)	5 x 10 mL
2900	Ethanol-Water Solution (Nominal Mass Fraction 95.6%)	5 x 10 mL

See [Table 105.3](#) on the website for more information.

Drugs of Abuse, Smoking Metabolites and Contaminants (urine)

SRM	Description	Unit of Issue
1507b	11-Nor-Delta-9-Tetrahydrocannabinol-9- Carboxylic Acid in Freeze-Dried Urine	set (3)
2926	Recombinant Human Insulin-like Growth Factor 1 (Frozen)	3 x 0.25 mL
2927	¹⁵ N-Labeled Recombinant Human Insulin-like Growth Factor 1 (Frozen)	3 x 50 µL
3671	Nicotine Metabolites in Human Urine (Frozen)	3 x 10 mL
3672	Organic Contaminants in Smokers' Urine (Frozen)	5 x 10 mL
3673	Organic Contaminants in Non-Smokers' Urine (Frozen)	5 x 10 mL

See [Table 105.7](#) on the website for more information.

Biomanufacturing

SRM	Description	Unit of Issue
1989	Monodisperse Irregularly Shaped Epoxy-Based Particles (Nominal 100 µm, 150 µm, 220 µm)	1 x 20 mL (1 each)
3655	Glycans in Solution (Frozen)	13 vials
8230	<i>Saccharomyces cerevisiae</i> NE095 Cells for Cell Counting and DNA-based Detection (freeze-dried)	16 vials (12 yeast, 4 matrix)
8634	Ethylene Tetrafluoroethylene for Particle Size Distribution and Morphology	20 mL
8671	NISTmAb, Humanized IgG1k Mono-clonal Antibody	1 x 800 µL
8675	NISTCHO, Clonal CHO-K1 Cell Line Producing cNISTmAb	1 vial

See [Table 105.6](#) on the website for more information.

Respirable Materials

SRM	Description	Unit of Issue
1648a	Urban Particulate Matter	2 g
1649b	Urban Dust	2 g
1650b	Diesel Particulate Matter	200 mg
1878b	Respirable Alpha Quartz (Quantitative X-Ray Powder Diffraction Standard)	5 g
1879b	Respirable Cristobalite (Quantitative X-Ray Powder Diffraction Standard)	5 g
1975	Diesel Particulate Extract	4 x 1.2 mL
2583	Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)	8 g
2584	Trace Elements in Indoor Dust (Nominal Mass Fraction of 1% Lead)	8 g
2585	Organic Contaminants in House Dust	10 g
2786	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 4 µm)	100 mg to 140 mg
2787	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 10 µm)	
2975	Diesel Particulate Matter	100 mg to 140 mg
8044	Common Commercial Asbestos: Chrysotile	

See [Table 105.12](#) on the website for more information.

**Serum, Plasma, Blood and Urine
Clinical Laboratory Materials
(frozen, liquid, and lyophilized
forms)**

SRM	Description	Unit of Issue
909c	Frozen Human Serum	3 x 2 mL
927f	Bovine Serum Albumin (7 %, solution) (Total Protein Solution)	10 x 2.2 mL
955d	Toxic Metals and Metabolites in Frozen Human Blood	6 x 1.6 mL
956d	Electrolytes in Frozen Human Serum	6 x 2 mL
965b	Glucose in Frozen Human Serum	set (8)
967a	Creatinine in Frozen Human Serum	set (4)
968f	Fat-Soluble Vitamins, Carotenoids, and Cholesterol in Human Serum	set (3)
971a	Hormones in Frozen Human Serum	2 x 2 mL
972a	Vitamin D Metabolites in Frozen Human Serum	4 x 1 mL
1401	Trace Metals in Frozen Human Blood	4 x 1.6 mL
1507b	11-Nor-Delta-9-Tetrahydrocannabinol-9- Carboxylic Acid in Freeze-Dried Urine	set (3)
1949	Frozen Human Prenatal Serum	8 x 1.8 mL
1950	Metabolites in Human Plasma	5 x 1 mL
1951c	Lipids in Frozen Human Serum	4 x 1 mL
1955	Homocysteine and Folate in Frozen Human Serum	set (3)
1957	Organic Contaminants in Non-Fortified Human Serum	5
1958	Organic Contaminants in Fortified Human Serum	5
2378	Fatty Acids in Frozen Human Serum	3 x 1 mL
2668	Toxic Elements in Frozen Human Urine	10 x 1.5 mL
2669	Arsenic Species in Frozen Human Urine	10 x 1.5 mL
2925	Recombinant Human Serum Albumin Solution (Primary Reference Calibrator for Urine Albumin) (Frozen)	2 x 0.5 mL
2969	Vitamin D Metabolites in Frozen Human Serum (Total 25-Hydroxyvitamin D Low Level)	2 x 1 mL
2970	Vitamin D Metabolites in Frozen Human Serum (25-Hydroxyvitamin D2 High Level)	2 x 1 mL
2973	Vitamin D Metabolites in Frozen Human Serum (High Level)	2 x 1 mL
3666	Albumin and Creatinine in Frozen Human Urine	4 x 1 mL
3667	Creatinine in Frozen Human Urine	1 x 10 mL
3668	Mercury, Perchlorate, and Iodide in Frozen Human Urine	10 x 1.5 mL
3669	Arsenic Species in Frozen Human Urine (Elevated Levels)	10 x 1.5 mL

SRM	Description	Unit of Issue
3671	Nicotine Metabolites in Human Urine (Frozen)	5 x 1.5 mL
3672	Organic Contaminants in Smoker's Urine (Frozen)	10 x 1.5 mL
3673	Organic Contaminants in Non-Smoker's Urine (Frozen)	10 x 1.5 mL
3949	Folate Vitamers in Frozen Human Serum	3 x 1 mL
3950	Vitamin B6 in Frozen Human Serum	2 x 1 mL
3951	Fatty Acid Species in Frozen Human Serum	3 x 1 mL
8048	Human Fecal Material	8 x 1 mL (4 each)
8231	Frozen Human Plasma Suite for Metabolomics	6 x 2 mL (2 each)

See [Table 105.2](#) on the website for more information.

DNA Profiling, Nucleic Acid Materials, and Monoclonal Antibody

SRM	Description	Unit of Issue
2365	BK Virus DNA Quantitative Standard	1 vial
2366a	Cytomegalovirus DNA (TowneΔ147 BAC) for DNA Measurements	1 vial
2367	JC Virus DNA Quantitative Standard	1 x 110 μL
2372a	Human DNA Quantitation Standard	set (3)
2374	DNA Sequence Library for External RNA Controls	96 tubes
2391d	PCR-Based DNA Profiling Standard	5 vials
2393	CAG Repeat Length Mutation in Huntington's Disease	set (6)
2917	Plasmid DNA for Fecal Indicator Detection and Identification	set (6)
8043	Forensic DNA Resource Samples	8 x 0.5 mL
8230	<i>Saccharomyces cerevisiae</i> NE095 Cells for Cell Counting and DNA-based Detection (freeze-dried)	16 vials (12 yeast, 4 matrix)
8366	EGFR and MET Gene Copy Number Standards for Cancer Measurements	set (6)
8375	Microbial Genomic DNA Standards for Sequencing Performance Assessment (MG-001, MG-002, MG-003, MG-004)	set (4)
8376	Microbial Pathogen DNA Standards for Detection and Identification	20 tubes
8391	Human DNA for Whole-Genome Variant Assessment (Son of Eastern European Ashkenazi Jewish Ancestry) (HG-002)	1 vial
8391 (QTY 10)	Human DNA for Whole-Genome Variant Assessment (Son of Eastern European Ashkenazi Jewish Ancestry) (HG-002)	10 vials of RM 8391
8392	Human DNA for Whole-Genome Variant Assessment (Trio of Eastern European Ashkenazi Jewish Ancestry) (HG-002, HG-003, HG-004)	3 vials
8393	Human DNA for Whole-Genome Variant Assessment (Son of Chinese Ancestry) (HG-005)	1 vial
8393 (QTY 10)	Human DNA for Whole-Genome Variant Assessment (Son of Chinese Ancestry) (HG-005)	10 vials of RM 8391
8398	Human DNA for Whole-Genome Variant Assessment (Daughter of Utah/European Ancestry) (HG-001)	1 vial
8398 (QTY 10)	Human DNA for Whole-Genome Variant Assessment (Daughter of Utah/European Ancestry) (HG-001)	10 vials of RM 8398

See [Table 105.8](#) on the website for more information.

Lead in Paint, Dust, and Soil (powder and sheet forms)

SRM	Description	Unit of Issue
1648a	Urban Particulate Matter	2 g
2569	Lead Paint Films for Children's Products	8 sheets
2570	Lead Paint Film for Portable X-Ray Fluorescence Analyzers - Blank (Color: White)	1 film
2571	Lead Paint Film for Building Surfaces (Nominal Pb 3.5 mg/cm ²)(Color: Yellow)	1 + blank
2572	Lead Paint Film for Building Surfaces (Nominal Pb 1.6 mg/cm ²)(Color: Orange)	1 + blank
2574	Lead Paint Film for Building Surfaces (Nominal Pb 0.7 mg/cm ²)(Color: Gold)	1 + blank
2575	Lead Paint Film for Building Surfaces (Nominal Pb 0.3 mg/cm ²)(Color: Green)	1 + blank
2576	Lead Paint Film for Building Surfaces (Nominal Pb 5.6 mg/cm ²)(Color: Blue)	1 + blank
2579a	Lead Paint Films For Building Surfaces (SRM 2570 through SRM 2575)	set (6)
2580	Powdered Paint (Nominal Mass Fraction 4 % Lead)	30 g
2581	Powdered Paint (Nominal Mass Fraction 0.5 % Lead)	35 g
2582	Powdered Paint (Nominal Mass Fraction 200 mg/kg Lead)	20 g
2583	Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)	8 g
2584	Trace Elements in Indoor Dust (Nominal Mass Fraction of 1% Lead)	8 g
2586	Trace Elements in Soil Containing Lead From Paint (Nominal Mass Fraction 500 mg/ kg Lead)	55 g
2587	Trace Elements in Soil (Nominal Mass Fraction of 3000 mg/kg Lead)	55 g
2589	Powdered Paint (Nominal Mass Fraction 10% Lead)	35 g
2783	Air Particulate on Filter Media (47 mm dia)	2 + 2 Blank

See [Table 105.13](#) on the website for more information.

Metal (Inorganics) Constituents in Natural Matrices (liquid and solid forms)

SRM	Description	Unit of Issue
1640a	Trace Elements in Natural Water	250 mL
1641f	Mercury in Water	10 x 10 mL
1643f	Trace Elements in Water	250 mL
1646a	Estuarine Sediment	70 g
1648a	Urban Particulate Matter	2 g
1947	Lake Michigan Fish Tissue	5 x 8 g
2385	Slurried Spinach	4 x 70 g
2387	Peanut Butter	3 x 170 g
2451	Fine Carbon (Activated) From Cyanide Ore Leaching	100 g
2583	Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)	8 g
2584	Trace Elements in Indoor Dust (Nominal Mass Fraction of 1 % Lead)	8 g
2586	Trace Elements in Soil Containing Lead From Paint (Nominal Mass Fraction 500 mg/kg Lead)	55 g
2587	Trace Elements in Soil (Nominal Mass Fraction of 3000 mg/kg Lead)	55 g
2696	Silica Fume (powder form)	70 g
2700	Hexavalent Chromium in Contaminat- ed Soil (Low Level)	75 g
2701	Hexavalent Chromium in Contaminated Soil (High Level)	75 g
2702	Inorganics in Marine Sediment	50 g
2703	Sediment for Solid Sampling (Small Sample) Analytical Techniques	5 g
2706	New Jersey Soil, Organics and Trace Elements	50 g
2709a	San Joaquin Soil Baseline Trace Element Con- centrations	50 g
2710a	Montana I Soil Highly Elevated Trace Element Concentrations	50 g
2711a	Montana II Soil Moderately Elevated Trace Ele- ment Concentrations	50 g
2780a	Hard Rock Mine Waste	50 g
2781	Domestic Sludge	40 g
2782	Industrial Sludge	70 g
2783	Air Particulate on Filter Media (47 mm dia)	2 + 2 Blank
2983	Inorganics in Geoduck Clam Tissue (<i>Panopea generosa</i>)	12 g
8210	Hemp	3 x 1.5 g

SRM	Description	Unit of Issue
8610	Mercury Isotopes in UM-Almaden Mono-Elemental Secondary Standard	4 x 5 mL
8704	Buffalo River Sediment	50 g
8785	Air Particulate Matter on Filter Media	3 filters
8786	Filter Blank for RM 8785	filter

See [Table 106.1](#) on the website for more information.

Mercury in Activated Carbon

SRM	Description	Unit of Issue
2445	Mercury in Iodinated Activated Carbon	25 g
2448	Mercury in Brominated Activated Carbon	25 g
2451	Fine Carbon (Activated) - From Cyanide Ore Leaching	100 g

See [Table 106.3](#) on the website for more information.

Environmental Matrices with Carbon Values

SRM	Description	Unit of Issue
1632e	Trace Elements in Coal (Bituminous)	50 g
2718a	Green Petroleum Coke	50 g
2719	Calcined Petroleum Coke	50 g
2775	Sulfur in Foundry Coke	50 g
2776	Sulfur in Furnace Coke	50 g
8499	Trace Elements in Coal (Bituminous)	50 g
8704	Buffalo River Sediment	50 g
8785	Air Particulate Matter on Filter Media	3 filters
8786	Filter Blank for RM 8785	filter

See [Table 106.4](#) on the website for more information.

Used Auto Catalysts (powder form)

SRM	Description	Unit of Issue
<u>2556</u>	Used Auto Catalyst (Pellets)	70 g
<u>2557</u>	Used Auto Catalyst (Monolith)	70 g

See [Table 106.6](#) on the website for more information.

Zeolites (powder form)

SRM	Description	Unit of Issue
<u>8850</u>	Zeolite Y	35-40 g
<u>8851</u>	Zeolite A	35-40 g
<u>8852</u>	Ammonium ZSM-5 Zeolite	35-40 g

See [Table 106.7](#) on the website for more information.

See [Table 107.1](#) on the website for more information.

Carbon Monoxide in Air or Nitrogen

SRM	Description	Unit of Issue
1677c*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 10 $\mu\text{mol/mol}$)	6 L cylinder
1678c*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 50 $\mu\text{mol/mol}$)	6 L cylinder
1679c*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 100 $\mu\text{mol/mol}$)	6 L cylinder
1680b*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 500 $\mu\text{mol/mol}$)	6 L cylinder
1681b*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 $\mu\text{mol/mol}$)	6 L cylinder
2635a*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 25 $\mu\text{mol/mol}$)	6 L cylinder
2636a*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 250 $\mu\text{mol/mol}$)	6 L cylinder
2637a*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 2500 $\mu\text{mol/mol}$)	6 L cylinder
2638a*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 5000 $\mu\text{mol/mol}$)	6 L cylinder
2639a	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 1 % mol/mol)	6 L cylinder
2640a	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 2 % mol/mol)	6 L cylinder
2641a	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 4 % mol/mol)	6 L cylinder
2642a*	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 8 % mol/mol)	6 L cylinder
2740a	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 10 % mol/mol)	6 L cylinder
2741a	Carbon Monoxide in Nitrogen (Nominal Amount-of-Substance Fraction 13 % mol/mol)	6 L cylinder

See [Table 107.1](#) on the website for more information.

Hydrogen Sulfide in Nitrogen

SRM	Description	Unit of Issue
2730	Hydrogen Sulfide in Nitrogen (Nominal Amount-of-Substance Fraction 5 µmol/mol)	6 L cylinder
2731	Hydrogen Sulfide in Nitrogen (Nominal Amount-of-Substance Fraction 20 µmol/mol)	6 L cylinder

See [Table 107.4](#) on the website for more information.

Carbon Dioxide in Nitrogen

SRM	Description	Unit of Issue
1674b*	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 7 % mol/mol)	6 L cylinder
2617	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 500 µmol/mol)	6 L cylinder
2619a	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 0.5 % mol/mol)	6 L cylinder
2620a	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1 % mol/mol)	6 L cylinder
2621a	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1.5 % mol/mol)	6 L cylinder
2622a	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 2 % mol/mol)	6 L cylinder
2624a	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 3 % mol/mol)	6 L cylinder
2625a*	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 3.5 % mol/mol)	6 L cylinder
2745*	Carbon Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 16 % mol/mol)	6 L cylinder

See [Table 107.2](#) on the website for more information.

* The SRMs that are marked with * are also available as NTRMs from commercial suppliers.

Organic Components in Air or Nitrogen

SRM	Description	Unit of Issue
1658a	Methane in Air (Nominal Amount-of-Substance Fraction 1 µmol/mol)	6 L cylinder
1659a	Methane in Air (Nominal Amount-of-Substance Fraction 10 µmol/mol)	6 L cylinder
1665b	Propane in Air (Nominal Amount-of-Substance Fraction 3 µmol/mol)	6 L cylinder
1666b	Propane in Air (Nominal Amount-of-Substance Fraction 10 µmol/mol)	6 L cylinder
1667b	Propane in Air (Nominal Amount-of-Substance Fraction 50 µmol/mol)	6 L cylinder
1668b*	Propane in Air (Nominal Amount-of-Substance Fraction 100 µmol/mol)	6 L cylinder
1669b	Propane in Air (Nominal Amount-of-Substance Fraction 500 µmol/mol)	6 L cylinder
2644a	Propane in Nitrogen (Nominal Amount-of-Substance Fraction 250 µmol/mol)	6 L cylinder
2647a	Propane in Nitrogen (Nominal Amount-of-Substance Fraction 2500 µmol/mol)	6 L cylinder
2750	Methane in Air (Nominal Amount-of-Substance Fraction 50 µmol/mol)	6 L cylinder
2751	Methane in Air (Nominal Amount-of-Substance Fraction 100 µmol/mol)	6 L cylinder

See [Table 107.5](#) on the website for more information.

Nitrogen Oxides in Air or Nitrogen

SRM	Description	Unit of Issue
1683b*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 50 µmol/mol)	6 L cylinder
1684b*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 100 µmol/mol)	6 L cylinder
1685b*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 250 µmol/mol)	6 L cylinder
1686b*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 500 µmol/mol)	6 L cylinder
1687b*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol)	6 L cylinder
1718	Nitrous Oxide in Air (Nominal Amount-of-Substance Fraction 1 µmol/mol)	6 L cylinder
2627a*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 5 µmol/mol)	6 L cylinder
2628a*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 10 µmol/mol)	6 L cylinder
2629a*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 20 µmol/mol)	6 L cylinder
2630*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 1500 µmol/mol)	6 L cylinder
2631a*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 3000 µmol/mol)	6 L cylinder
2737*	Nitric Oxide in Nitrogen (Nominal Amount-of-Substance Fraction 500 nmol/mol)	30 L cylinder

See [Table 107.6](#) on the website for more information.

Oxygen in Nitrogen

SRM	Description	Unit of Issue
2657a*	Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 2 % mol/mol)	6 L cylinder
2658a*	Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 10 % mol/mol)	6 L cylinder
2659a*	Oxygen in Nitrogen (Nominal Amount-of-Substance Fraction 21 % mol/mol)	6 L cylinder

See [Table 107.7](#) on the website for more information.

Sulfur Dioxide in Nitrogen

SRM	Description	Unit of Issue
1661a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 500 µmol/mol)	6 L cylinder
1662a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1000 µmol/mol)	6 L cylinder
1663a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 1500 µmol/mol)	6 L cylinder
1664a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 2500 µmol/mol)	6 L cylinder
1689	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 5 µmol/mol)	6 L cylinder
1693a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 50 µmol/mol)	6 L cylinder
1694a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 100 µmol/mol)	6 L cylinder
1696a*	Sulfur Dioxide in Nitrogen (Nominal Amount-of-Substance Fraction 3500 µmol/mol)	6 L cylinder

See [Table 107.8](#) on the website for more information.

* The SRMs that are marked with * are also available as NTRMs from commercial suppliers.

Metal Constituents in Fossil Fuels (liquid forms)

SRM	Description	Unit of Issue
8505	Vanadium in Crude Oil	250 mL

See [Table 108.2](#) on the website for more information.

Crude Oil

SRM	Description	Unit of Issue
2721	Crude Oil (Light-Sour)	5 x 10 mL
2722	Crude Oil (Heavy Sweet)	5 x 10 mL
2778	Mercury in Crude Oil	5 x 10 mL

See [Table 108.3](#) on the website for more information.

Bituminous Coal

SRM	Description	Unit of Issue
1632e	Trace Elements in Coal (Bituminous)	100 mL
2683c	Bituminous Coal (Nominal Mass Fraction 2 % Sulfur)	50 g
2684c	Bituminous Coal (Nominal Mass Fraction 3 % Sulfur)	50 g
2685c	Bituminous Coal (Nominal Mass Fraction 5 % Sulfur)	50 g
2692c	Bituminous Coal (Nominal Mass Fraction 1 % Sulfur)	50 g
2693	Bituminous Coal (Nominal Mass Fraction 0.5 % Sulfur)	50 g
8499	Trace Elements in Coal (Bituminous)	5 x 20 mL

See [Table 108.3](#) on the website for more information and additional resources.

Gasoline

SRM	Description	Unit of Issue
2298	Sulfur in Gasoline (High-Octane)	5 x 20 mL
2299	Sulfur in Gasoline (Reformulated)	5 x 20 mL

See [Table 108.3](#) on the website for more information.

Subbituminous Coal

SRM	Description	Unit of Issue
1635a	Trace Elements in Coal (Subbituminous)	50 g
2682c	Subbituminous Coal (Nominal Mass Fraction 0.5 % Sulfur)	50 g

See [Table 108.3](#) on the website for more information.

Residual Fuel Oil

SRM	Description	Unit of Issue
1619b	Sulfur in Residual Fuel Oil (Nominal Mass Fraction 0.7 %)	100 mL
1622e	Sulfur in Residual Fuel Oil (Nominal Mass Fraction 2 %)	100 mL
2717a	Sulfur in Residual Fuel Oil (Nominal Mass Fraction 3 %)	100 mL

See [Table 108.3](#) on the website for more information.

Petroleum Coke

SRM	Description	Unit of Issue
2775	Sulfur in Foundry Coke	50 g
2776	Sulfur in Furnace Coke	50 g

See [Table 108.3](#) on the website for more information.

Metallurgical Coke

SRM	Description	Unit of Issue
2775	Sulfur in Foundry Coke	50 g
2776	Sulfur in Furnace Coke	50 g

See [Table 108.3](#) on the website for more information.

Middle Distillates

SRM	Description	Unit of Issue
1617b	Sulfur in Kerosine (High Level)	100 mL
2723b	Sulfur in Diesel Fuel Oil (Nominal Mass Fraction 10 mg/kg)	100 mL
2770	Sulfur in Diesel Fuel Oil (Nominal Mass Fraction 40 mg/kg)	10 x 10 mL

See [Table 108.3](#) on the website for more information.

Moisture in Oils and Alcohols (liquid form)

SRM	Description	Unit of Issue
<u>2721</u>	Crude Oil (Light-Sour)	5 x 10 mL
<u>2722</u>	Crude Oil (Heavy-Sweet)	5 x 10 mL
<u>2890</u>	Water Saturated 1-Octanol	5 x 2 mL
<u>8509</u>	Moisture in Methanol	5 x 5 mL

See [Table 108.4](#) on the website for more information.

Biomass Constituents

SRM	Description	Unit of Issue
<u>2790</u>	Inorganic Constituents in Hardwood Biomass Material	2 x 30 g
<u>2791</u>	Inorganic Constituents in Softwood Biomass Material	2 x 30 g
<u>8644</u>	Dried Corn Biomass Intermediate Before Conversion	4 x 10 g
<u>8645</u>	Dried Corn Biomass Intermediate After Conversion	2 x 10 g

See [Table 108.9](#) on the website for more information.

Fossil Fuel: Trace Elements (solid forms)

SRM	Description	Unit of Issue
<u>1632e</u>	Trace Elements in Coal (Bituminous)	50 g
<u>1633c</u>	Trace Elements in Coal Fly Ash	75 g
<u>1635a</u>	Trace Elements in Coal (Subbituminous)	50 g
<u>2429</u>	Flue Gas Desulfurization Gypsum	200 g
<u>2689</u>	Coal Fly Ash	3 x 10 g
<u>2690</u>	Coal Fly Ash	3 x 10 g
<u>2691</u>	Coal Fly Ash	3 x 10 g
<u>2718a</u>	Green Petroleum Coke	50 g
<u>2719</u>	Calcined Petroleum Coke	50 g
<u>8499</u>	Trace Elements in Coal (Bituminous)	50 g

See [Table 108.6](#) on the website for more information.

Organics		
SRM	Description	Unit of Issue
869b	Column Selectivity Test Mixture for Liquid Chromatography	5 x 1.1 mL
870	Column Performance Test Mixture for Liquid Chromatography	5 x 1.1 mL
1491a	Methyl-Substituted Polycyclic Aromatic Hydrocarbons in Toluene	5 x 1.2 mL
1493	Polychlorinated Biphenyl Congeners in 2,2,4-Trimethylpentane	5 x 1.2 mL
1543	GC/MS System Performance Standard	4 x 1 mL
1647f	Priority Pollutant Polycyclic Aromatic Hydrocarbons in Acetonitrile	5 x 1.3 mL
1649b	Urban Dust	2 g
1650b	Diesel Particulate Matter	200 mg
1936	Great Lakes Sediment	50 g
1941b	Organics in Marine Sediment	50 g
1945	Organics in Whale Blubber	2 x 15 g
1947	Lake Michigan Fish Tissue	5 x 8 g
1953	Organic Contaminants in Non-Fortified Human Milk	5 x 5 mL
1954	Organic Contaminants in Fortified Human Milk	5 x 5 mL
1957	Organic Contaminants in Non-Fortified Human Serum (Freeze Dried)	5 x 10.7 mL
1958	Organic Contaminants in Fortified Human Serum (Freeze Dried)	5 x 10.7 mL
1974c	Organics in Mussel Tissue (<i>Mytilus edulis</i>)	5 x 10 g
1975	Diesel Particulate Extract	4 x 1.2 mL
1991	Mix Coal Tar/Petroleum Extract in Methylene Chloride	5 x 1.2 mL
2257	PBDE Congeners in 2,2,4-Trimethylpentane	5 x 1.2 mL
2258	BDE 209 in 2,2,4-Trimethylpentane	5 x 1.2 mL
2259	PCB Congeners in 2,2,4-Trimethylpentane	5 x 1.2 mL
2260a	Aromatic Hydrocarbon in Toluene	5 x 1.2 mL
2261	Chlorinated Pesticides in Hexane (Nominal Mass Concentration 2 µg/mL)	5 x 1.2 mL
2262	Chlorinated Biphenyl Congeners in 2,2,4-Trimethylpentane (Nominal Mass Concentration 2 µg/mL)	5 x 1.2 mL
2266	Hopanes and Steranes in 2,2,4-Trimethylpentane	5 x 1.2 mL
2269	Perdeuterated PAH-I Solution in Hexane/Toluene	5 x 1.2 mL
2270	Perdeuterated PAH-II Solution in Hexane/Toluene	5 x 1.2 mL

SRM	Description	Unit of Issue
2274	PCB Congeners in 2,2,4-Trimethylpentane	5 x 1.2 mL
2275	Chlorinated Pesticide Solution-II in 2,2,4-Trimethylpentane	5 x 1.2 mL
2585	Organic Contaminants in House Dust	10 g
2706	New Jersey Soil, Organics and Trace Elements	50 g
2777	Weathered Gulf of Mexico Crude Oil in Toluene	5 x 1.2 mL
2779	Gulf of Mexico Crude Oil	5 x 1.2 mL
2781	Domestic Sludge	40 g
2786	Fine Atmospheric Particulate Matter (<4 µm)	100 mg to 140 mg
2787	Fine Atmospheric Particulate Matter (<10 µm)	100 mg to 140 mg
2860	Phthalates in Polyvinyl Chloride	2 levels, 1 blank, 2 g each
2974a	Organics in Freeze-Dried Mussel Tissue (<i>Mytilus edulis</i>)	5 g
2975	Diesel Particulate Matter	1 g
3060	Monoester Phthalates in Acetonitrile	5 x 1.2 mL
3262	St. John's Wort (<i>Hypericum perforatum</i> L.) Aerial Parts	5 x 3.3 g
3672	Organic Contaminants in Smokers' Urine (Frozen)	5 x 10 mL
3673	Organic Contaminants in Non-Smokers' Urine (Frozen)	5 x 10 mL
8182	Fatty Acid Methyl Esters in 2,2,4-Trimethylpentane	5 x 1.2 mL
8210	Hemp	3 x 1.5 g
8446	Perfluorinated Carboxylic Acids and Perfluorooctane Sulfonamide in Methanol	4 x 1.2 mL
8447	Perfluorinated Sulfonic Acids in Methanol	3 x 1.2 mL
8690	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation I	4 x 1.2 mL
8691	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation II	4 x 1.2 mL
8692	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation III	4 x 1.2 mL
8693	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation IV	4 x 1.2 mL

See [Table 109.1](#) on the website for more information.

EPA: Organic Compounds

SRM	Description	Unit of Issue
<u>3077</u>	Aroclor 1242 in Transformer Oil	5 x 1.2 mL
<u>3079</u>	Aroclor 1254 in Transformer Oil	5 x 1.2 mL
<u>3080</u>	Aroclor 1260 in Transformer Oil	5 x 1.2 mL

See [Table 109.3](#) on the website for more information.

Perfluorinated and Polyfluorinated Alkyl Substances (PFAS)

SRM	Description	Unit of Issue
<u>1936</u>	Great Lakes Sediment	50 g
<u>1947</u>	Lake Michigan Fish Tissue	5 x 8 g
<u>1950</u>	Metabolites in Frozen Human Plasma	5 x 1 mL
<u>1957</u>	Organic Contaminants in Non-Fortified Human Serum (Freeze-Dried)	5 x 10.7 mL
<u>1958</u>	Organic Contaminants in Fortified Human Serum (Freeze-Dried)	5 x 10.7 mL
<u>2585</u>	Organic Contaminants in House Dust	10 g
<u>2586</u>	Trace Elements in Soil Containing Lead From Paint (Nominal Mass Fraction of 500 mg/kg Lead)	55 g
<u>2781</u>	Domestic Sludge	40 g
<u>8446</u>	Perfluorinated Carboxylic Acids and Perfluorooctane Sulfonamide in Methanol	4 x 1.2 mL
<u>8447</u>	Perfluorinated Sulfonic Acids in Methanol	3 x 1.2 mL
<u>8690</u>	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation I	4 x 1.2 mL
<u>8691</u>	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation II	4 x 1.2 mL
<u>8692</u>	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation III	4 x 1.2 mL
<u>8693</u>	PFAS in Aqueous Film-Forming Foams (AFFF) Formulation IV	4 x 1.2 mL

See [Table 109.5](#) on the website for more information.

Foods and Beverages - Macro and Micronutrients

SRM	Description	Unit of Issue
<u>1546a</u>	Meat Homogenate	4 cans x 85 g
<u>1548b</u>	Typical Diet	2 x 5 g
<u>1549a</u>	Whole Milk Powder	5 pouches x 10 g each
<u>1566b</u>	Oyster Tissue	25 g
<u>1567b</u>	Wheat Flour	50 g
<u>1568c</u>	Rice Flour	50 g
<u>1570a</u>	Trace Elements in Spinach Leaves	60 g
<u>1577c</u>	Bovine Liver	20 g
<u>1845a</u>	Whole Egg Powder	5 pouches x 10 g each
<u>1849a</u>	Infant/Adult Nutritional Formula I (milk-based)	10 pouches x 10 g each
<u>1869</u>	Infant/Adult Nutritional Formula II (milk/whey/soy-based)	10 pouches x 10 g each
<u>1947</u>	Lake Michigan Fish Tissue	5 x 8 grams
<u>2383a</u>	Baby Food Composite	4 x 70 g
<u>2384</u>	Baking Chocolate	5 x 91 g
<u>2385</u>	Slurried Spinach	4 x 70 g
<u>2386</u>	Avocado Powder	5 x 10 g
<u>2387</u>	Peanut Butter	3 x 170 g
<u>2983</u>	Inorganics in Geoduck Clam Tissue (<i>Panopea generosa</i>)	12 g
<u>3035</u>	Arsenic Species in Apple Juice	5 x 1.5 mL
<u>3233</u>	Fortified Breakfast Cereal	60 g each
<u>3234</u>	Soy Flour	50 g

SRM	Description	Unit of Issue
<u>3235</u>	Soy Milk	10 x 10 mL
<u>3252</u>	Protein Drink Mix	5 pouches x 10 g each
<u>3253</u>	Yerba Mate Leaves	2 x 10 g
<u>3254</u>	Green Tea (<i>Camellia sinensis</i>) Leaves	5 x 3 g
<u>3255</u>	Green Tea (<i>Camellia sinensis</i>) Extract	5 x 1 g
<u>3281</u>	Cranberry (Fruit)	5 x 6 g
<u>3282</u>	Low-Calorie Cranberry Juice Cocktail	5 x 1.2 mL
<u>3287</u>	Blueberry (Fruit)	5 pouches x 5 g each
<u>3290</u>	Dry Cat Food	5 pouches x 10 g each
<u>3530</u>	Iodized Table Salt (Iodide)	1 bottle x 200 g
<u>8256</u>	Wild-caught Coho Salmon	2 jars, 6 g to 8 g
<u>8257</u>	Aquacultured Coho Salmon	2 jars, 6 g to 8 g
<u>8258</u>	Wild-caught Shrimp	2 jars, 6 g to 8 g
<u>8259</u>	Aquacultured Shrimp	2 jars, 6 g to 8 g
<u>8260</u>	Infant Nutritional Formula (hydrolyzed milk-based)	400 g
<u>8261</u>	Adult Nutritional Formula (high-protein)	400 g

See [Table 110.1](#) on the website for more information.

Foods and Beverages - Other Components of Potential Interest

SRM	Description	Unit of Issue
1548b	Typical Diet	2 x 5 g
1565	Mycotoxins in Corn	2 x 60 g
1566b	Oyster Tissue	25 g
1849a	Infant/Adult Nutritional Formula I (milk-based)	10 pouches x 10 g each
1869	Infant/Adult Nutritional Formula II (milk/whey/soy-based)	10 pouches x 10 g each
2386	Avocado Powder	5 x 10 g
2387	Peanut Butter	3 x 170 g
3233	Fortified Breakfast Cereal	60 g each
3234	Soy Flour	50 g
3235	Soy Milk	10 x 10 mL
3253	Yerba Mate Leaves	2 x 10 g
3254	Green Tea (<i>Camellia sinensis</i>) Leaves	5 x 3 g
3255	Green Tea (<i>Camellia sinensis</i>) Extract	5 x 1 g
3278	Tocopherols in Edible Oils	5 x 1 mL
3281	Cranberry (Fruit)	5 x 6 g
3282	Low-Calorie Cranberry Juice Cocktail	5 x 1.2 mL
3287	Blueberry (Fruit)	5 x 5 g
8260	Infant Nutritional Formula (hydrolyzed milk-based)	400 g
8261	Adult Nutritional Formula (high-protein)	400 g
8403	Cocoa Flavanol Extract	5 x 2 g

See [Table 110.1](#) on the website for more information.

Food Contaminants and Allergens

SRM	Description	Unit of Issue
1566b	Oyster Tissue	25 g
1947	Lake Michigan Fish Tissue	5 x 8 g
1953	Organic Contaminants in Non-Fortified Human Milk	5 x 5 mL
1954	Organic Contaminants in Fortified Human Milk	5 x 5 mL
2387	Peanut Butter	3 x 170 g
2983	Inorganics in Geoduck Clam Tissue (<i>Panopea generosa</i>)	12 g
3256	Green Tea-Containing Solid Oral Dosage Form	5 x 2.5 g
8210	Hemp	3 x 1.5 g
8238	Glyphosphate in Oat Flour (High Level)	100 g
8239	Glyphosphate in Oat Flour (Low Level)	100 g
8404	Almond Flour for Allergen Detection	3 x 170 g
8405	Hazelnut Flour for Allergen Detection	5 x 8 g
8642a	FDA Saxitoxin Dihydrochloride Solution	5 x 1.2 mL

See [Table 110.2](#) on the website for more information.

Agricultural Materials (powder form)

SRM	Description	Unit of Issue
1515	Apple Leaves	50 g
1570a	Trace Elements in Spinach Leaves	60 g
1573a	Tomato Leaves	50 g
1575a	Trace Elements in Pine Needles (<i>Pinus taeda</i>)	50 g

See [Table 110.4](#) on the website for more information.

Fertilizers (powder form)

SRM	Description	Unit of Issue
120c	Phosphate Rock (Florida)	90 g
193	Potassium Nitrate	90 g
194a	Ammonium Dihydrogen Phosphate	90 g
200b	Potassium Dihydrogen Phosphate (Fertilizer Standard)	90 g
694	Phosphate Rock, Western	90 g
695	Trace Elements in Multi-Nutrient Fertilizer	70 g
2429	Flue Gas Desulfurization Gypsum	200 g

See [Table 110.5](#) on the website for more information.

Tobacco-Related Materials

SRM	Description	Unit of Issue
3222	Cigarette Tobacco Filler	20 x 10 g

See [Table 110.10](#) on the website for more information.

Dietary Supplement Materials (includes nutraceuticals and herbs)

SRM	Description	Unit of Issue
3232	Kelp Powder (<i>Thallus laminariae</i>)	3 x 5 g
3235	Soy Milk	10 x 10 mL
3246	<i>Ginkgo biloba</i> (Leaves)	5 x 3 g
3247	<i>Ginkgo biloba</i> (Extract)	5 x 1 g
3248	Ginkgo-Containing Tablets	5 x 1 g
3250	Saw Palmetto (<i>Serenoa repens</i>) Fruit	5 x 6 g
3251	Saw Palmetto (<i>Serenoa repens</i>) Extract	5 x 1 mL
3254	Green Tea (<i>Camellia sinensis</i>) Leaves	5 x 3 g
3255	Green Tea (<i>Camellia sinensis</i>) Extract	5 x 1 g
3256	Green Tea-Containing Solid Oral Dosage Form	5 x 2.5 g
3262	St. John's Wort (<i>Hypericum perforatum</i> L.) Aerial Parts	5 x 3.3 g
3268	Kudzu (<i>Pueraria montana</i> var. <i>lobata</i>) Extract	5 x 1 g

SRM	Description	Unit of Issue
3275	Omega-3 and Omega-6 Fatty Acids in Fish Oil	3 ea 2 x 1.2 mL
3279	Chromium Dietary Supplement	5 x 6 g
3281	Cranberry (Fruit)	5 x 6 g
3282	Low-Calorie Cranberry Juice Cocktail	5 x 1.2 mL
3283	Cranberry Extract	5 x 2.5 g
3284	Cranberry-Containing Solid Oral Dosage Form	5 x 2.5 g
3285	Mixed-Berry Containing Solid Oral Dosage Form	5 x 2.5 g
3289	Multivitamin Tablets	30 x 5 bottles
3291	Bilberry Extract	5 x 1 g
3294	Multielement Tablets	30 x 5 bottles
3299	Ground Turmeric (<i>Curcuma longa</i> L.) Rhizome	5 x 3 g
3300	Curcumin Extract of Turmeric (<i>Curcuma longa</i> L.) Rhizome	5 x 1 g
3383	Yohimbe-Containing Solid Oral Dosage Form	5 x 1.1 g
3384	Ground Asian Ginseng (<i>Panax ginseng</i> C.A. Meyer) Rhizome	5 x 3 g
3385	Asian Ginseng (<i>Panax ginseng</i>) Extract	5 x 1 g
3389	Ginsenosides Calibration Solutions	5 x 1 mL
3398	Ginger (<i>Zingiber officinale</i>) Rhizome	5 x 1.6 g
3530	Iodized Table Salt (Iodide)	1 x 200 g
8037	Krill Oil	3 x 4.5 mL
8183	Omega-3 and Omega-6 Fatty Acids in Botanical Oils	4 x 1.2 mL
8186	Soy Protein Isolate	5 x 10 g
8187	Soy Protein Concentrate	5 x 10 g
8188	Soy-Containing Solid Oral Dosage Form	5 x 2.6 g
8210	Hemp	3 x 1.5 g
8650	Ground Kudzu (<i>Pueraria montana</i> var. <i>lobata</i>) Rhizome	5 x 3 g
8652	Kudzu-Containing Solid Oral Dosage Form	5 x 2.6 g
8662	Eleuthero (<i>Eleutherococcus senticosus</i>) Ground Stems	5 x 3 g
8663	Eleuthero (<i>Eleutherococcus senticosus</i>) Ground Stems Extract Powder	5 x 1 g
8664	Ginseng-Containing Solid Oral Dosage Form	5 x 2.6 g
8666	Ginger (<i>Zingiber officinale</i>) Extract	5 x 3 g

See [Table 110.9](#) on the website for more information.

Ores

SRM	Description	Unit of Issue
<u>25d</u>	Manganese Ore	60 g
<u>180</u>	Fluorspar, High Grade	120 g
<u>183</u>	Lithium Ore (Lepidolite)	45 g
<u>277</u>	Tungsten Concentrate	100 g
<u>330a</u>	Copper Ore Mill Heads	90 g
<u>331a</u>	Copper Ore Mill Tails	40 g
<u>423</u>	Molybdenum Oxide Concentrate	50 g
<u>670</u>	Rutile Ore	90 g
<u>690</u>	Iron Ore Canada	100 g
<u>691</u>	Iron Oxide, Reduced	100 g
<u>692</u>	Iron Ore, Labrador	100 g
<u>693</u>	Iron Ore (Nimba)	100 g
<u>886</u>	Refractory Gold Ore	200 g
<u>1835</u>	Borate Ore	60 g
<u>2430</u>	Scheelite Ore	100 g

See [Table 111.2](#) on the website for more information.

Ores (powder form) Phosphate Rocks and Bauxites

SRM	Description	Unit of Issue
<u>69b</u>	Bauxite (Arkansas)	60 g
<u>120c</u>	Phosphate Rock (Florida)	90 g
<u>600</u>	Bauxite, Australian-Darling Range	90 g
<u>694</u>	Phosphate Rock, Western	90 g
<u>696</u>	Bauxite, Surinam	60 g
<u>697</u>	Bauxite, Dominican	60 g
<u>698</u>	Bauxite, Jamaican	60 g

See [Table 111.2](#) on the website for more information.

Clays (powder form)

SRM	Description	Unit of Issue
<u>97b</u>	Flint Clay	60 g
<u>98b</u>	Plastic Clay	60 g
<u>679</u>	Brick Clay	75 g

See [Table 111.4](#) on the website for more information.

Rock and Minerals (powder form)

SRM	Description	Unit of Issue
<u>1d</u>	Limestone, Argillaceous	70 g
<u>70b</u>	Potassium Feldspar	1 x 40 g
<u>81a</u>	Glass Sand	75 g
<u>88b</u>	Dolomitic Limestone	75 g
<u>99b</u>	Soda Feldspar	40 g
<u>165a</u>	Glass Sand	75 g
<u>278</u>	Obsidian Rock	35 g
<u>688</u>	Basalt Rock	60 g
<u>1413</u>	High Alumina Sand	75 g
<u>2429</u>	Flue Gas Desulfurization Gypsum	1 x 200 g
<u>2780a</u>	Hard Rock Mine Waste	50 g

See [Table 111.5](#) on the website for more information.

Refractories (powder form)

SRM	Description	Unit of Issue
<u>76a</u>	Burnt Refractory (Nominal Mass Fraction 40 % Al ₂ O ₃)	75 g
<u>77a</u>	Burnt Refractory (Nominal Mass Fraction 60 % Al ₂ O ₃)	75 g
<u>78a</u>	Burnt Refractory (Nominal Mass Fraction 70 % Al ₂ O ₃)	75 g
<u>198</u>	Silica Brick	45 g
<u>199</u>	Silica Brick	45 g

See [Table 111.6](#) on the website for more information.

Soils, Sediments, and Sludges (powder form)

SRM	Description	Unit of Issue
<u>1646a</u>	Estuarine Sediment	70 g
<u>2586</u>	Trace Elements in Soil Containing Lead From Paint (Nominal Mass Fraction of 500 mg/kg Lead)	55 g
<u>2587</u>	Trace Elements in Soil Containing Lead from Paint (Nominal Mass Fraction of 3000 mg/kg Lead)	55 g
<u>2700</u>	Hexavalent Chromium in Contaminated Soil (Low Level)	75 g
<u>2701</u>	Hexavalent Chromium in Contaminated Soil (High Level)	75 g
<u>2702</u>	Inorganics in Marine Sediment	50 g
<u>2703</u>	Sediment for Solid Sampling (Small Sample) Analytical Techniques	5 g
<u>2706</u>	New Jersey Soil, Organics and Trace Elements	50 g
<u>2709a</u>	San Joaquin Soil Baseline Trace Ele- ment Concentrations	50 g
<u>2710a</u>	Montana I Soil Highly Elevated Trace Element Concentrations	50 g
<u>2711a</u>	Montana II Soil Moderately Elevated Trace Element Concentrations	50 g
<u>2780a</u>	Hard Rock Mine Waste	50 g
<u>2781</u>	Domestic Sludge	40 g
<u>2782</u>	Industrial Sludge	70 g
<u>8704</u>	Buffalo River Sediment	50 g

See [Table 111.7](#) on the website for more information.

Nitrides (powder form)

SRM	Description	Unit of Issue
8983	Silicon Nitride Powder	4.5 g

See [Table 112.1](#) on the website for more information.

Cemented Carbides (powder form)

SRM	Description	Unit of Issue
887	Cemented Carbide (W-83,Co-10)	100 g
888	Cemented Carbide (W-64,Co-25,Ta-5)	100 g
889	Cemented Carbide (W-75,Co-9,Ta-5,Ti-4)	100 g

See [Table 112.2](#) on the website for more information.

Trace Elements (wafer form)

SRM	Description	Unit of Issue
606	Trace Elements in Basalt Glass	glass mounted in epoxy
610	Trace Elements in Glass	4 wafers
611	Trace Elements in Glass	4 wafers
612	Trace Elements in Glass	4 wafers
613	Trace Elements in Glass	4 wafers
614	Trace Elements in Glass	4 wafers
616	Trace Elements in Glass	4 wafers
617	Trace Elements in Glass	4 wafers

See [Table 112.4](#) on the website for more information.

Glasses (powder and solid forms)

SRM	Description	Unit of Issue
80a	Soda-Lime Glass (beads)	45 g
81a	Glass Sand	75 g
89	Glass, Lead Barium	45 g
92	Soda-Lime Glass, Low Boron (powder)	45 g
93a	Borosilicate Glass	1 wafer
165a	Glass Sand	75 g
606	Trace Elements in Basalt Glass	glass mounted in epoxy
620	Soda-Lime, Flat	3 platelets
1411	Soft Borosilicate Glass	10 platelets
1412a	Multicomponent Glass (disk form)	disk
1413	High Alumina Sand	75 g
1830	Soda-Lime Float Glass (Nominal Mass Fraction 0.1 % Al ₂ O ₃)	3 platelets
1831	Soda-Lime Sheet Glass (Nominal Mass Fraction 1.2 % Al ₂ O ₃)	3 platelets
2696	Silica Fume (powder form)	70 g

See [Table 112.3](#) on the website for more information.

Cements and Related Materials (powder form)

SRM	Description	Unit of Issue
633a	Portland Cement	4 x 5 g
634a	Portland Cement	100 g
635a	Portland Cement (Blended with Slag)	5 x 5 g
1880b	Portland Cement	5 x 5 g
1881b	Portland Cement (Blended with Fly Ash)	5 x 5 g
1882a	Calcium Aluminate Cement	4 x 5 g
1883a	Calcium Aluminate Cement	4 x 5 g
1884b	Portland Cement	5 x 4.5 g
1885b	Portland Cement	5 x 5 g
1886a	Portland Cement (White Portland Cement with Low Iron)	4 x 5 g
1886b	White Portland Cement	5 x 5 g
1887b	Portland Cement	5 x 4 g
1888b	Portland Cement	4 x 5 g
1889b	Portland Cement (Blended with Limestone)	5 x 5 g
2429	Flue Gas Desulfurization Gypsum	1 x 200 g
2696	Silica Fume (powder form)	70 g

See [Table 113.1](#) on the website for more information.

Portland Cement Clinkers (solid form)

SRM	Description	Unit of Issue
2686b	Portland Cement Clinker	50 g
2687a	Portland Cement Clinker	5 x 8 g
2688	Portland Cement Clinker	3 x 10 g

See [Table 113.2](#) on the website for more information.

Lubricating Oils

SRM	Description	Unit of Issue
<u>1818a</u>	Chlorine in Lubricating Base Oils	set (5)
<u>1819a</u>	Sulfur in Lubricating Base Oil	set (5)
<u>1848</u>	Lubricating Oil Additive Package	100 g

See [Table 114.2](#) on the website for more information.

Ethanol Solutions

SRM	Description	Unit of Issue
1828c	Ethanol-Water Solutions (six levels)	6 x 1.2 mL
2891	Ethanol-Water Solution (Nominal Mass Fraction 0.02 %)	5 x 1.2 mL
2892	Ethanol-Water Solution (Nominal Mass Fraction 0.04 %)	5 x 1.2 mL
2893a	Ethanol-Water Solution (Nominal Mass Fraction 0.08 %)	5 x 1.2 mL
2894	Ethanol-Water Solution (Nominal Mass Fraction 0.1 %)	5 x 1.2 mL
2895	Ethanol-Water Solution (Nominal Mass Fraction 0.2 %)	5 x 1.2 mL
2896	Ethanol-Water Solution (Nominal Mass Fraction 0.3 %)	5 x 1.2 mL
2897a	Ethanol Water Solution (Nominal Mass Fraction 2 %)	5 x 10 mL
2898a	Ethanol Water Solution (Nominal Mass Fraction 6 %)	5 x 10 mL
2899a	Ethanol-Water Solution (Nominal Mass Fraction 25 %)	5 x 10 mL
2900	Ethanol-Water Solution (Nominal Mass Fraction 95.6 %)	5 x 10 mL

See [Table 115.1](#) on the website for more information.

DNA Profiling and Nucleic Acid

SRM	Description	Unit of Issue
2372a	Human DNA Quantitation Standard	3 x 55 µL
2374	DNA Sequence Library for External RNA Controls	96 tubes
2391d	PCR-Based DNA Profiling Standard	5 vials
8043	Forensic DNA Resource Samples	8 x 0.5 mL
8230	Saccharomyces cerevisiae NE095 Cells for Cell Counting and DNA-based Detection (freeze dried)	16 vials (12 yeast, 4 matrix)
8375	Microbial Genomic DNA Standards for Sequencing Performance Assessment (MG-001, MG-002, MG-003, MG-004)	4 vials, 1 each
8376	Microbial Pathogen DNA Standards for Detection and Identification	20 tubes
8391	Human DNA for Whole-Genome Variant Assessment (Son of Eastern European Ashkenazi Jewish Ancestry) (HG-002)	1 vial

SRM	Description	Unit of Issue
8391 (QTY10)	Human DNA for Whole-Genome Variant Assessment (Son of Eastern European Ashkenazi Jewish Ancestry) (HG-002)	10 vials of RM 8391
8392	Human DNA for Whole-Genome Variant Assessment (Family Trio of Eastern European Ashkenazi & Jewish Ancestry) (HG-002, HG-003, HG-004)	3 vials, 1 each
8393	Human DNA for Whole-Genome Variant Assessment (Son of Chinese Ancestry) (HG-005)	1 vial
8393 (QTY10)	Human DNA for Whole-Genome Variant Assessment (Son of Chinese Ancestry) (HG-005)	10 vials of RM 8393
8398	Human DNA for Whole-Genome Variant Assessment (Daughter of Utah/European Ancestry) (HG-001)	1 vial
8398 (QTY10)	Human DNA for Whole-Genome Variant Assessment (Daughter of Utah/European Ancestry) (HG-001)	10 vials of RM 8398

See [Table 115.1](#) on the website for more information.

Drugs of Abuse

SRM	Description	Unit of Issue
1507b	THC-9-COOH in Freeze-Dried Urine	set (3)

See [Table 115.1](#) on the website for more information.

Crime Scene Investigations

SRM	Description	Unit of Issue
2323	Step Height Standard for Areal Surface Topography Measurement	each
2460a	Standard Bullet Replica	each
2461	Standard Cartridge Case	each

See [Table 115.1](#) on the website for more information.

pH Calibration (powder form)

SRM	Description	Unit of Issue
<u>185i</u>	Potassium Hydrogen Phthalate, pH Standard	60 g
<u>186g</u>	pH Standards Potassium Dihydrogen Phosphate (186-I-g) Disodium Hydrogen Phosphate (186-II-g)	set
<u>187f</u>	Sodium Tetraborate Decahydrate (Borax) pH Standard	30 g
<u>188</u>	Potassium Hydrogen Tartrate (pH Standard)	60 g
<u>189c</u>	Potassium Tetroxalate Dihydrate pH Standard	65 g
<u>191d</u>	Sodium Bicarbonate (191d-I) Sodium Carbonate (191d-II) (ph Standard)	1 x 25g 1x 30g
<u>2193b</u>	Calcium Carbonate pH Standard (used as saturated calcium hydroxide solution) (pH Standard)	30 g

See [Table 201.1](#) on the website for more information.

pD Calibration (powder form)

SRM	Description	Unit of Issue
<u>2185</u>	Potassium Hydrogen Phthalate pD Standard	60 g
<u>2191a</u>	Sodium Bicarbonate	30 g
<u>2192a</u>	Sodium Carbonate	30 g

See [Table 201.3](#) on the website for more information.

Ion-Selective Electrode Calibration (powder form)

SRM	Description	Unit of Issue
<u>2201</u>	Sodium Chloride (Ion-Selective)	125 g
<u>2203</u>	Potassium Fluoride (Standard for Ion-Selective Electrodes)	125 g

See [Table 201.4](#) on the website for more information.

Polymers

SRM	Description	Unit of Issue
705a	Polystyrene (Narrow Molecular Weight Distribution)	5 g
706a	Polystyrene (Broad Molecular Mass Distribution)	18 g
1473c	Low Density Polyethylene Resin	60 g
1474b	Polyethylene Resin	60 g
1475a	Polyethylene, Linear	50 g
1476a	Branched Polyethylene Resin	12 g
1478	Polystyrene (Narrow Molecular Weight Distribution)	2 g
1479	Polystyrene (Narrow Molecular Weight Distribution)	2 g
1482a	Linear Polyethylene Narrow Molecular Mass Distribution (Nominal Mass-Average Molar Mass of 13 600 g/mol)	0.3 g
1483a	Linear Polyethylene Narrow Molecular Mass Distribution (Nominal Mass-Average Molar Mass of 32 100 g/mol)	0.3 g
1488	Poly (Methyl Methacrylate) (29 K Narrow Molecular Weight Distribution)	2 g
2885	Polyethylene (Mass-Average Molar Mass [Mw] 6 280 g/mol)	0.3 g
2886	Polyethylene (Mass-Average Molar Mass [Mw] 87 000 g/mol)	0.3 g
2887	Polyethylene (Mass-Average Molar Mass [Mw] 196 400 g/mol)	0.3 g
8047	Resin for Photopolymer Additive Manufacturing	20 g

See [Table 202.1](#) on the website for more information.

Melt Flow Rate

SRM	Description	Unit of Issue
1473c	Low Density Polyethylene Resin	60 g
1474b	Polyethylene Resin	60 g
1475a	Polyethylene, Linear	50 g
1476a	Branched Polyethylene Resin	12 g
1496	Unpigmented Polyethylene Gas Pipe Resin	0.9 kg

See [Table 202.1](#) on the website for more information.

Viscosity

SRM	Description	Unit of Issue
2493	Bingham Mortar Mixture for Rheological Measurements	kit for two batches
2497	Bingham Concrete Mixture for Rheological Measurements	kit for one batch

See [Table 202.1](#) on the website for more information.

Elements in Polymers

SRM	Description	Unit of Issue
2855	Additive Elements in Polyethylene	3 Levels, 80 g each
2859	Restricted Elements in Polyvinyl Chloride	25 g
2861	Restricted Elements in Polyvinyl Chloride	25 g

See [Table 202.2](#) on the website for more information.

Combustion Calorimetry (powder form)

SRM	Description	Unit of Issue
<u>39i</u>	Benzoic Acid (Calorimetric Standard)	30 g
<u>1657</u>	Synthetic Refuse-Derived Fuel Combustion Calorimetric Standard	100 g
<u>2152</u>	Urea Combustion Calorimetric Standard	25 g

See [Table 203.1](#) on the website for more information.

Differential Scanning Calorimetry and Differential Thermal Analysis

SRM	Description	Unit of Issue
<u>2232a</u>	Indium for DSC Temperature and Enthalpy Calibration	1 g

See [Table 203.5](#) on the website for more information.

Temperature and Enthalpy of Transition

SRM	Description	Unit of Issue
<u>8103</u>	Adamantane for Subambient DSC Temperature and Enthalpy Calibration	1 g

See [Table 203.5](#) on the website for more information.

Enthalpy and Heat Capacity

SRM	Description	Unit of Issue
<u>705a</u>	Polystyrene (Narrow Molecular Weight Distribution)	5 g
<u>720</u>	Sapphire Heat Capacity	15 g

See [Table 203.5](#) on the website for more information.

Thermal Analysis Purity Set

SRM	Description	Unit of Issue
<u>1514</u>	Thermal Analysis Purity Set	set (4)

See [Table 203.5](#) on the website for more information.

Defining Fixed Point, International Temperature Scale of 1990, ITS-90 (solid forms)

SRM	Description	Unit of Issue
<u>741a</u>	Tin Freezing-Point Standard	200 g

See [Table 203.8](#) on the website for more information.

Reference Points (solid forms)

SRM	Description	Unit of Issue
<u>742</u>	Aluminum Oxide Pyrometric Standard	10 g

See [Table 203.10](#) on the website for more information.

Thermocouple Materials and Thermometers

SRM	Description	Unit of Issue
1749	Gold versus Platinum Thermocouple Certified Thermometer	each
1967a	High-Purity Platinum Thermoelement (platinum wire)	0.51 mm D x 1 m L

See [Table 203.13](#) on the website for more information.

Thermal Conductivity of Iron (rod form), Fibrous Glass, and Polystyrene

SRM	Description	Unit of Issue
1450e	Thermal Conductivity - Fibrous Glass Board	each
1453	Thermal Conductivity - Expanded Polystyrene Board	each
8420	Electrolytic Iron	0.64 cm D x 5 cm L

See [Table 203.15](#) on the website for more information.

Thermal Expansion of Metal, Glass (rod form)

SRM	Description	Unit of Issue
731L1	Borosilicate Glass - Thermal Expansion	5 cm
731L2	Borosilicate Glass - Thermal Expansion	10 cm
731L3	Borosilicate Glass - Thermal Expansion	15 cm

See [Table 203.16](#) on the website for more information.

Thermal Resistance Properties of Fibrous Glass and Fumed Silica Board

SRM	Description	Unit of Issue
1452	Thermal Resistance - Fibrous Glass Blanket for High-Precision Measurements	each

See [Table 203.17](#) on the website for more information.

Thermoelectric Materials

SRM	Description	Unit of Issue
3451	Low-Temperature Seebeck Coefficient Standard	bar
3452	High-Temperature Seebeck Coefficient Standard (295 K to 900 K)	bar

See [Table 203.18](#) on the website for more information.

Molecular Absorption (film, filter, solid, and solution forms)

SRM	Description	Unit of Issue
931h	Liquid Absorbance Standard for Ultraviolet and Visible Spectrophotometry	set (12)
1921b	Infrared Transmission Wavelength/ Wave-number Standard	1 card
1928	Infrared Specular High Reflectance Standard (Nominal Diameter 51 mm)	disk
1929	Infrared Specular High Reflectance Standard (Nominal Diameter 25 mm)	disk
2031c	Metal-on-Fused-Silica Neutral Density Filters (250 nm to 635 nm)	set (3)
2034	Holmium Oxide Solution Wavelength Standard (240 nm to 650 nm)	cuvette
2035b	Ultraviolet-Visible-Near-Infrared Wavelength/ Wavenumber Transmission Standard	each

See [Table 204.1](#) on the website for more information.

Fluorescence and Raman Spectroscopy

SRM	Description	Unit of Issue
1932	Fluorescein Solution	3 x 2 mL
2241	Relative Intensity Correction Standard for Raman Spectroscopy: 785 nm Excitation	each
2242a	Relative Intensity Correction Standard for Raman Spectroscopy: 532 nm Excitation	each
2244	Relative Intensity Correction Standard for Raman Spectroscopy: 1064 nm Excitation	each
2246	Relative Intensity Correction Standard for Raman Spectroscopy: 830 nm Excitation	each
2940a	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Orange Emission	each
2941a	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Green Emission	each
2942	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Ultraviolet Emission	each
2943	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Blue Emission	each
2944	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Red Emission	each

See [Table 204.2](#) on the website for more information.

Optical Properties

SRM	Description	Unit of Issue
17g	Sucrose Optical Rotation	60 g
1010a	Microcopy Resolution Test Charts	set (5)
1928	Infrared Specular High Reflectance Standard (Nominal Diameter 51 mm)	disk
1929	Infrared Specular High Reflectance Standard (Nominal Diameter 25 mm)	disk
1932	Fluorescein Solution	3 x 2 mL
2038a	Infrared Diffuse High Reflectance Standard (Nominal Diameter 25.4 mm)	each
2241	Relative Intensity Correction Standard for Raman Spectroscopy: 785 nm Excitation	each
2242a	Relative Intensity Correction Standard for Raman Spectroscopy: 532 nm Excitation	each
2244	Relative Intensity Correction Standard for Raman Spectroscopy: 1064 nm Excitation	each
2246a	Relative Intensity Correction Standard for Raman Spectroscopy: 830 nm Excitation	each
2940a	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Orange Emission	each
2941a	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Green Emission	each
2942	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Ultraviolet Emission	each
2943	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Blue Emission	each
2944	Relative Intensity Correction Standard for Fluorescence Spectroscopy: Red Emission	each

Optical Rotation (powder form)

SRM	Description	Unit of Issue
17g	Sucrose Optical Rotation	60 g

Photography (chart form)

SRM	Description	Unit of Issue
1010a	Microcopy Resolution Test Charts	set (5)

See [Table 204.2](#) on the website for more information.

Radioactive Solutions

SRM	Description	Unit of Issue
4222d	Carbon-14-n-hexadecane Radioactivity Standard	5 mL
4226d	Nickel-63 Radioactivity Standard	5 mL
4233f	Cesium-137 Radioactivity Standard	5 mL
4239a	Strontium-90 Radioactivity Standard	5 mL
4251d	Barium-133 Radioactivity Standard	5 mL
4274	Holmium-166m Gamma-ray Emission Rate Standard	5 mL
4288b	Technetium-99 Radioactivity Standard	5 mL
4320b	Curium-244 Radioactivity Standard	5 mL
4321d	Natural Uranium Radioactivity Standard	5 mL
4322d	Americium-241 Radioactivity Standard	5 mL
4323c	Plutonium-238 Radioactivity Standard	5 mL
4324b	Uranium-232 Radioactivity Standard	5 mL
4326a	Polonium-209 Radioactivity Standard	5 mL
4328d	Thorium-229 Radioactivity Standard	5 mL
4329a	Curium-243 Radioactivity Standard	5 mL
4330c	Plutonium-239 Radioactivity Standard	3 mL
4332e	Americium-243 Radioactivity Standard	5 mL
4334j	Plutonium-242 Radioactivity Standard	5 mL
4337	Lead-210 Radioactivity Standard	5 mL
4338b	Plutonium-240 Radioactivity Standard	5 mL
4339b	Radium-228 Radioactivity Standard	5 mL
4340b	Plutonium-241 Radioactivity Standard	5 mL
4341a	Neptunium-237 Radioactivity Standard	5 mL
4342a	Thorium-230 Radioactivity Standard	5 mL
4361c	Hydrogen-3 Radioactivity Standard	500 mL
4370d	Europium-152 Radioactivity Standard	5 mL
4915f	Cobalt-60 Radioactivity Standard	5 mL
4919l	Strontium-90 Radioactivity Standard	5 mL
4926e	Hydrogen-3 Radioactivity Standard	20 mL
4927g	Hydrogen-3 Radioactivity Standard	5 mL
4929f	Iron-55 Radioactivity Standard	5 mL
4943	Chlorine-36 Radioactivity Standard	3 mL
4949d	Iodine-129 Radioactivity Standard	5 mL
4965a	Radium-226 Radioactivity Standard	5 mL
4966a	Radium-226 Radioactivity Standard	5 mL
4967a	Radium-226 Radioactivity Standard	5 mL
4969	Radium-226 Radioactivity Standard	5 mL

See [Table 205.4](#) on the website for more information.

Carbon-14 Dating (solid form)

SRM	Description	Unit of Issue
4990C	Oxalic Acid	8 x 28 g

See [Table 205.7](#) on the website for more information.

Radioactive Natural Matrix Materials (powder form)

SRM	Description	Unit of Issue
4350b	River Sediment Environmental Radioactivity Standard	85 g
4351	Human Lung Environmental Radioactivity Standard	45 g
4352	Human Liver Environmental Radioactivity Standard	45 g
4353a	Rocky Flats Soil Number 2	75 g
4354	Freshwater Lake Sediment Environmental Radioactivity Standard	25 g
4356	Ashed Bone Environmental Radioactivity Standard	15 g
4357	Ocean Sediment Environmental Radioactivity Standard	85 g
4358	Ocean Shellfish Radionuclide Standard	150 g
4359	Seaweed Radionuclide Standard	300 g

See [Table 205.11](#) on the website for more information.

Electrical Resistivity and Conductivity of Iron (rod form)

SRM	Description	Unit of Issue
<u>8420</u>	Electrolytic Iron	0.64 D x 5.0

See [Table 206.1](#) on the website for more information.

Depth Profiling (wafer form)

SRM	Description	Unit of Issue
<u>2133</u>	Phosphorus Implant in Silicon Depth Profile Standard	each
<u>2134</u>	Arsenic Implant in Silicon Depth Profile Standard	each
<u>2135c</u>	Ni/Cr Thin Film Depth Profile Standard	each

See [Table 207.3](#) on the website for more information.

Microscale Dimensional Measurement Standards

SRM	Description	Unit of Issue
<u>2323</u>	Step Height Standard for Areal Surface Topography Measurement	each
<u>2196</u>	Axial Resolution Standard for Optical Medical Imaging	each
<u>8820</u>	Scanning Electron Microscope Scale Calibration Artifact	each

See [Table 207.9](#) on the website for more information.

Chemical Resistance [Durability] of Glass (solid form)

SRM	Description	Unit of Issue
622	Soda-Lime-Silica Glass	2.2 kg

See [Table 208.1](#) on the website for more information.

Electrical Properties of Dielectrics

SRM	Description	Unit of Issue
624	Lead-Silica Glass for dc Volume Resistivity	200 g

See [Table 208.2](#) on the website for more information.

Viscosity of Glass (bar form)

SRM	Description	Unit of Issue
717a	Hi Boron Glass Viscosity	disk

See [Table 208.3](#) on the website for more information.

Viscosity Fixpoints (solid forms)

SRM	Description	Unit of Issue
709	Extra Dense Lead Glass	block
717a	Hi Boron Glass Viscosity	disk

See [Table 208.5](#) on the website for more information.

Glass Liquidus Temperature (solid form)

SRM	Description	Unit of Issue
1416	Aluminosilicate Glass for Liquidus Temperature	250 g

See [Table 208.4](#) on the website for more information.

Density

SRM	Description	Unit of Issue
211d	Toluene Liquid Density Extended Range	4 x 5 mL
2214	Isooctane Liquid Density	4 x 5 mL

See [Table 208.8](#) on the website for more information.

Relative Stress Optical Coefficient (bar form)

SRM	Description	Unit of Issue
709	Extra Dense Lead Glass	block

See [Table 208.6](#) on the website for more information.

Diffraction and Scattering

SRM	Description	Unit of Issue
640f	Line Position and Line Shape Standard for Powder Diffraction (Silicon Powder)	7.5 g
660c	Line Position and Line Shape Standard for Powder Diffraction (Lanthanum Hexaboride Powder)	6 g
674b	X-Ray Powder Diffraction Intensity Set (Quantitative Powder Diffraction Standard)	10 g
675	Line Position, Mica (XRD)	7.5 g
676a	Alumina Powder for Quantitative Analysis by X-Ray Diffraction	20 g
1878b	Respirable Alpha Quartz (Quantitative X-Ray Powder Diffraction Standard)	5 g
1879b	Respirable Cristobalite (Quantitative X-Ray Powder Diffraction Standard)	5 g
1976c	Instrument Response Standard for X-Ray Powder Diffraction	disc
1979	Powder Diffraction Line Profile Standard for Crystallite Size Analysis (Nano-Crystalline ZnO Powder)	2 x 3 g
1990	Single Crystal Diffractometer Alignment Standard - Ruby Sphere	3 spheres
2000	Calibration Standard for High-Resolution X-Ray Diffraction	block
3600	Absolute Intensity Calibration Standard for Small-Angle X-Ray Scattering	coupon

See [Table 209.1](#) on the website for more information.

Particle Size (powder and solid forms)

SRM	Description	Unit of Issue
1017b	Glass Beads - Particle Size Distribution (100 µm to 400 µm diameter range)	70 g
1019b	Glass Beads - Particle Size Distribution (750 µm to 2450 µm diameter range)	200 g
1021	Glass Beads - Particle Size Distribution (2 µm to 12 µm diameter range)	4 g
1690	Polystyrene Spheres (1 µm Diameter Particle Size)	5 mL
1691	Polystyrene Spheres (0.3 µm Diameter Particle Size)	5 mL
1961	Polystyrene Spheres (30 µm Diameter Particle Size)	5 mL
1963a	Polystyrene Spheres (100 nm Diameter Particle Size)	5 mL
1978	Particles Size Distribution Standard for Gravity Sedimentation	5 g
1984	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Acicular)	14 g
1985	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Spheroidal)	14 g
1989	Monodisperse Irregularly Shaped Epoxy-Based Particles (Nominal 100 µm, 150 µm, 220 µm)	1 x 20 mL (1 each)
8012	Gold Nanoparticles, Nominal 30 nm Diameter	2 x 5 mL
8634	Ethylene Tetrafluoroethylene for Particle Size Distribution and Morphology	20 mL
8988	Titanium Dioxide Powder - Particle Size Distribution	6 g

See [Table 301.1](#) on the website for more information.

Cement and Coal Fly Ash Fineness

SRM	Description	Unit of Issue
114r	Portland Cement Fineness Standard	20 x 5 g
2689	Coal Fly Ash	3 x 10 g
2690	Coal Fly Ash	3 x 10 g
2691	Coal Fly Ash	3 x 10 g

See [Table 301.2](#) on the website for more information.

Particle Count Materials (powder and suspension forms)

SRM	Description	Unit of Issue
2806d	Medium Test Dust (MTD) in Hydraulic Fluid	3 x 400 mL
8631b	Medium Test Dust (MTD)	20 g
8632a	Ultra Fine Test Dust (UFTD)	20 g

See [Table 301.5](#) on the website for more information.

Electrophoretic Mobility, E (suspension form)

SRM	Description	Unit of Issue
1980	Positive Electrophoretic (+µE) Mobility Standard (500 mg/L)	40 mL
1992	Zeta Potential - Colloidal Silica (Nominal Mass Fraction 0.15 %)	4 x 5 mL
1993	Zeta Potential - Colloidal Silica (Nominal Mass Fraction 2.2 %)	2 x 25 mL

See [Table 301.3](#) on the website for more information.

Surface Area of Powders and Mercury Porosimetry Standards

SRM	Description	Unit of Issue
1898	Titanium Dioxide Nanomaterial	15 g
1900	Specific Surface Area Standard	4 g
1917	Mercury Porosimetry Standard	10 g
2207	Controlled Pore Glass - BET Specific Surface Area (Nominal Pore Diameter 18 nm)	5 g
2696	Silica Fume (powder form)	70 g

See [Table 301.4](#) on the website for more information.

Microindentation Hardness (block form)

SRM	Description	Unit of Issue
<u>1893</u>	Copper Microhardness Test Block (Knoop)	each
<u>1894a</u>	Vickers Microhardness of Copper	each
<u>1895</u>	Nickel Microhardness Test Block (Knoop)	each
<u>1896b</u>	Vickers Microhardness of Nickel	each
<u>1905</u>	Nickel Microhardness Test Block (Knoop)	each
<u>1906</u>	Nickel Microhardness Test Block (Knoop)	each
<u>1907</u>	Nickel Microhardness Test Block (Knoop)	each
<u>1908</u>	Vickers Microhardness of Nickel	each
<u>1909</u>	Vickers Microhardness of Nickel	each
<u>2798a</u>	Vickers Microhardness of Nickel	each
<u>2828</u>	Knoop Microhardness of Steel	each
<u>2829</u>	Vickers Microhardness of Steel	each
<u>2830</u>	Knoop Hardness of Ceramics	each
<u>2831</u>	Vickers Hardness of Ceramics and Hardmetals	each

See [Table 302.1](#) on the website for more information.

Rockwell Hardness (block form)

SRM	Description	Unit of Issue
<u>2810</u>	Rockwell C Hardness - Low Range	1 block
<u>2811</u>	Rockwell C Hardness - Mid Range	1 block
<u>2812</u>	Rockwell C Scale Hardness - High Range	1 block
<u>2816</u>	Rockwell Hardness 15N Scale - Low Range (Nominal 72 HR15N)	1 block
<u>2817</u>	Rockwell Hardness 15N Scale - Mid Range (Nominal 83 HR15N)	1 block
<u>2818</u>	Rockwell Hardness 15N Scale - High Range (Nominal 91 HR15N)	1 block
<u>2819</u>	Rockwell Hardness 30N Scale - Low Range (Nominal 45 HR30N)	1 block
<u>2820</u>	Rockwell Hardness 30N Scale - Mid Range (Nominal 64 HR30N)	1 block
<u>2821</u>	Rockwell Hardness 30N Scale - High Range (Nominal 79 HR30N)	1 block

See [Table 302.5](#) on the website for more information.

Abrasive Wear (block form)

SRM	Description	Unit of Issue
<u>1857</u>	Tool Steel for Abrasive Wear Standard	2 blocks

See [Table 302.2](#) on the website for more information.

Flooring Radiant Panel (sheet form)

SRM	Description	Unit of Issue
1012	Flooring Radiant Panel	set (3)

See [Table 305.4](#) on the website for more information.

Standard Cigarettes for Ignition Strength and Ignition Resistance Testing

SRM	Description	Unit of Issue
1082	Cigarette Ignition Strength Standard (200 cigarettes)	1 carton
1196a	Standard Cigarette for Ignition Resistance Testing (400 cigarettes)	2 cartons

See [Table 305.5](#) on the website for more information.

Nanomaterials (less than or equal to 100nm)

SRM	Description	Unit of Issue
1898	Titanium Dioxide Nanomaterial	15 g
1963a	Polystyrene Spheres (Nominal 100 nm Diameter)	5 mL
8012	Gold Nanoparticles (Nominal 30 nm Diameter)	2 x 5 mL
8017	Polyvinylpyrrolidone Coated Silver Nanoparticles (Nominal Diameter 75 nm)	5 vials
8027	Silicon Nanoparticles (Nominal Diameter 2 nm)	5 x 1 mL

See [Table 308.1](#) on the website for more information.

Impact Standards: Charpy V-Notch Specimens

SRM	Description	Unit of Issue
<u>2093</u>	Low-Energy Charpy V-Notch Specimens (Self-Verification, 8-mm Striker)	set
<u>2097</u>	High-Energy Charpy V-Notch Specimens (Self-Verification, 8-mm Striker)	set
<u>2098</u>	Super-High-Energy Charpy V-Notch Specimens (NIST-Verification, 8-mm Striker)	set
<u>2099</u>	Super-High-Energy Charpy V-Notch Specimens (Self-Verification, 8 mm Striker)	set
<u>2112</u>	Dynamic Impact Force Verification Specimens (Self-Verification, 8-mm Striker, 24 kN nominal)	set
<u>2113</u>	Dynamic Impact Force Verification Specimens (Self-Verification, 8-mm Striker, 33 kN nominal)	set
<u>2197</u>	Low-Energy Charpy V-Notch Specimens (Self-Verification, 2-mm Striker)	set
<u>2198</u>	High-Energy Charpy V-Notch Specimens (Self-Verification, 2-mm Striker)	set
<u>2199</u>	Super-High-Energy Charpy V-Notch Specimens (Self-Verification, 2 mm Striker)	set
<u>2216</u>	Miniaturized Low-Energy Charpy V-Notch KLST Specimens (Self-Verification)	set
<u>2218</u>	Miniaturized High-Energy Charpy V-Notch KLST Specimens (Self-Verification)	set
<u>2219</u>	Miniaturized Super-High-Energy Charpy V-Notch KLST Specimens (Self-Verification)	set
<u>2237</u>	Miniaturized Low-Energy Charpy V-Notch RHS Specimens (Self-Verification)	set
<u>2238</u>	Miniaturized High-Energy Charpy V-Notch RHS Specimens (Self-Verification)	set
<u>2239</u>	Miniaturized Super-High-Energy Charpy V-Notch RHS Specimens (Self-Verification)	set
<u>2561</u>	Low-Energy Charpy V-Notch Specimens (NIST-Verification, 21° C, 8 mm Striker)	set
<u>2562</u>	Low-Energy Charpy V-Notch Specimens (Self-Verification, 21° C, 8 mm Striker)	set
<u>2563</u>	High-Energy Charpy V-Notch Specimens (NIST-Verification, 21° C, 8 mm Striker)	set
<u>2564</u>	Self-Energy Charpy V-Notch Specimens (NIST-Verification, 21° C, 8 mm Striker)	set

See [Table 309.1](#) on the website for more information.

Tape Adhesion Testing (sheet form)

SRM	Description	Unit of Issue
1810a	Linerboard	50 each

See [Table 309.4](#) on the website for more information.

Bleached Kraft Pulp (sheet form)

SRM	Description	Unit of Issue
8495	Northern Softwood	10 sheets
8496	Eucalyptus Hardwood	10 sheets

See [Table 309.5](#) on the website for more information.

Secondary Ferrite Standards

SRM	Description	Unit of Issue
8480	Secondary Ferrite Number Standard - Low Range	10x12x20
8481	Secondary Ferrite Number Standard - High Range	set (8)

See [Table 309.6](#) on the website for more information.

Fracture Toughness of Ceramics

SRM	Description	Unit of Issue
2100a	Fracture Toughness of Ceramic	5 bars
2100b	Fracture Toughness of Ceramic	5 bars

See [Table 309.7](#) on the website for more information.

Magnetic Moment

SRM	Description	Unit of Issue
762	Magnetic Moment Standard - Nickel Disk	6 mm D
764a	Magnetic Susceptibility Standard - Platinum Cylinder	3 mm D x 3.42 mm
772a	Magnetic Moment Standard - Nickel Sphere	each
2853	Magnetic Moment Standard - Yttrium Iron Garnet Sphere	each

See [Table 309.8](#) on the website for more information.

Firearm and Toolmark Forensics

SRM	Description	Unit of Issue
2323	Step Height Standard for Areal Surface Topography Measurement	each
2460a	Standard Bullet Replica	each
2461	Standard Cartridge Case	each

See [Table 309.11](#) on the website for more information.

Force Calibration

SRM	Description	Unit of Issue
3461	Standard Reference Cantilevers for Atomic Force Microscopy Spring Constant Calibration	each

See [Table 309.12](#) on the website for more information.