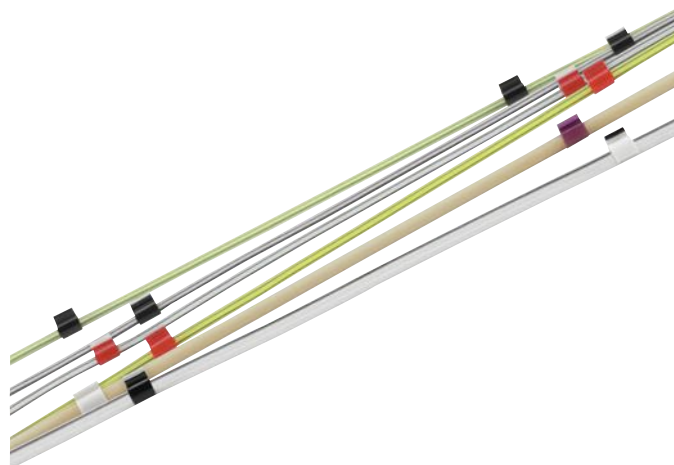


## ENSURE INSTRUMENT REPRODUCIBILITY

### Pump Tubing

PerkinElmer offers a wide range of high-quality peristaltic pump tubing for all of your Atomic Spectroscopy applications. Remember to replace your tubing frequently and always keep spares on hand.



#### 2-Stop Peristaltic Pump Tubing

i.d. (mm)	Stop Colors	Part No.
<b>Standard PVC (Pkg. 12)</b>		
0.19	Orange - Red	N0695476
0.25	Orange - Blue	N0773117
0.38	Orange - Green	N0777110
0.64	Orange - White	N8122012
0.76	Black - Black	09908587
1.14	Red - Red	09908585
1.42	Yellow - Yellow	N0777521
1.52	Yellow - Blue	09923536
1.85	Green - Green	N0777518
2.06	Purple - Purple	N0777561
<b>Flared PVC (Pkg. 12)</b>		
0.19	Orange - Red	N0773111
0.25	Orange - Blue	N0773112
0.38	Orange - Green	N0777042
0.44	Green - Yellow	N0773113
0.51	Orange - Yellow	N0777476
0.64	Orange - White	N0777711
0.76	Black - Black	N0777043
<b>Solvent Flex (Pkg. 12)</b>		
0.38	Orange - Green	N8145211
0.76	Black - Black	00473550
1.14	Red - Red	09923037
2.79	Purple - White	02508080

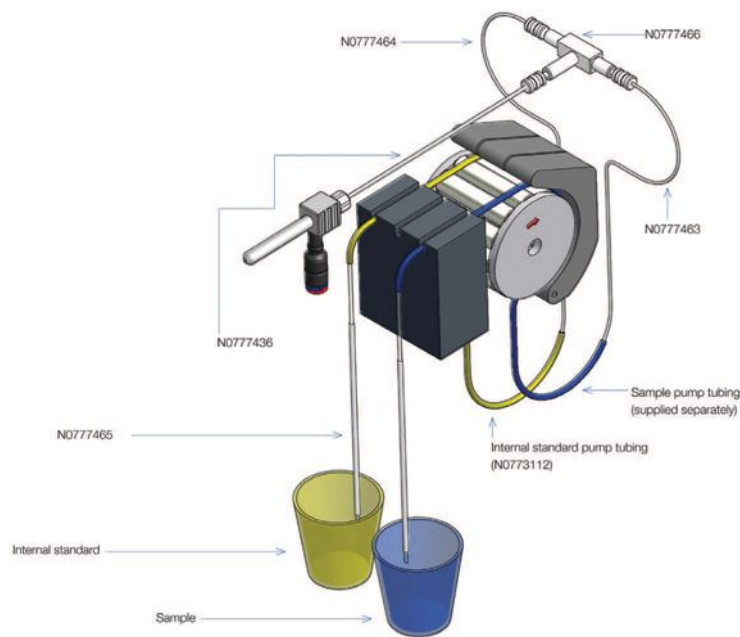
i.d. (mm)	Stop Colors	Part No.
<b>Viton® (Pkg. 12)</b>		
0.51	Orange - Yellow	N0777446
0.76	Black - Black	N0773118
1.02	White - White	N0777442
1.14	Red - Red	N0773115
1.30	Gray - Gray	N0777445
1.65	Blue - Blue	N0777447
<b>Santoprene® (Pkg. 12)</b>		
1.14	Red - Red	N0773119
1.30	Gray - Gray	N0777444
1.85	Green - Green	N0773116
<b>Silicone (Pkg. 6)</b>		
0.76	Black - Black	00473552
1.02	White - White	N0777441
1.14	Red - Red	N0691595
1.30	Gray - Gray	N0777443
2.79	Purple - White	09923448

#### 3-Stop Peristaltic Pump Tubing

i.d. (mm)	Stop Colors	Part No.
<b>Standard PVC (Pkg. 12)</b>		
0.76	Black - Black	B0506058
1.14	Red - Red	B0193160
1.52	Yellow - Blue	B0193161
2.06	Purple - Purple	B0199034
3.18	Black - White	B0508310

## Internal Standard Kits

In-line Standard Additions kits, one which includes a glass mixing chamber/combiner for solutions which do not contain HF and another which includes an inert mixing chamber/combiner. Both kits are completely modular so that damaged or worn components can easily be replaced. The heart of the kit is the mixing chamber/combiner. It is designed for zero dead volume on the input ends which accommodate the sample and addition lines. The output end is designed with a small mixing chamber so that the sample and added reagent are intimately mixed prior to introduction to the nebulizer. All connections to the mixing chamber/combiner use EzyFit connectors. A sampling probe for the reagent addition bottle is included so that it remains well anchored in the bottle. Inline addition of internal standards and ionization buffers provides an efficient means of accurately and precisely dosing all of your samples without extra effort or the risk of error or contamination. Internal standardization is often used to compensate for physical and mass-space interferences in ICP spectrometry. In many cases, it also enhances short-term and long-term reproducibility.



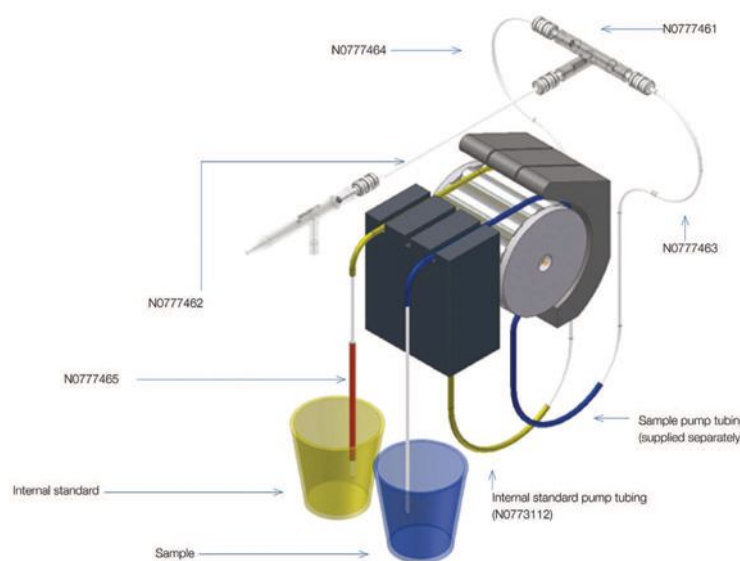
**HF-Resistant  
Internal Standard Kit**

### HF-Resistant Internal Standard Kit

Description	Part No.
<b>HF-Resistant Internal Standard Kit</b>	<b>N0774067</b>
Kit Includes:	
HF Mixing T-piece	<b>N077466</b>
Internal Standard Sample Probe	<b>N077465</b>
EzyFit Sample Tube 0.5 mm ID	<b>N077463</b>
EzyFit with 1/16 inch OD x 0.50 mm ID x 700 mm Long Sample Tube	<b>N077436</b>
EzyFit with 1/16 inch OD x 0.25 mm ID x 700 mm Long Sample Tube	<b>N077437</b>
Vitex® Gripper Paper	
Orange-Blue Flared End PVC Tubing 0.25 i.d. - Pkg 12	<b>N0773112</b>

### Non HF-Resistant Internal Standard Kit

Description	Part No.
<b>Non HF-Resistant Internal Standard Kit</b>	<b>N0774068</b>
Kit Includes:	
EzyFit Glass Mixing T-piece	<b>N077461</b>
Internal Standard Sample Probe	<b>N077465</b>
EzyFit Sample Tube - Twin	<b>N077462</b>
EzyFit with 1/16 inch OD x 0.50 mm ID x 700 mm Long Sample Tube	<b>N077436</b>
EzyFit with 1/16 inch OD x 0.25 mm ID x 700 mm Long Sample Tube	<b>N077437</b>
Vitex® Gripper Paper	
Orange-Blue Flared End PVC Tubing 0.25 i.d. - Pkg 12	<b>N0773112</b>



**Non HF-Resistant  
Internal Standard Kit**

# AUTOSAMPLER PROBES AND COMPONENTS



S10 Autosampler

## AS-90/90A/90plus/91/93plus/S10 Sampling Probe Assemblies

### Stainless Steel

Description	Part No.
Flame Sampling Probe Assembly, 0.6 mm i.d. Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and Flame Capillary (B3000157 – replaces B0196963) Tubing Assembly.	<b>B3000159</b>
FIAS™ Sampling Probe Assembly, 0.6 mm i.d. Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and FIAS Capillary Tubing Assembly (B3000158 – replaces B0196966).	<b>B3000160</b>
FIAS Standard Sampling Probe Assembly, 1.0 mm i.d. Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and FIAS Capillary Tubing Assembly (B0191060 – replaces B0501044).	<b>B3000161</b>

### Corrosion-Resistant

Corrosion-resistant probes are suitable for inorganic acids and most organic solvents, except NMP.

Description	Part No.
Flame Sampling Probe Assembly, 0.6 mm i.d.* Includes Sampling Probe with FEP Tube and Screw Fitting (B3000055) and Capillary Tubing Assembly (B3000157).	<b>B3001770</b>
FIAS Sampling Probe Assembly, 0.6 mm i.d.* Includes Sampling Probe with FEP Tube and Screw Fitting (B3000055) and FIAS Capillary Tubing Assembly (B3000158).	<b>B3001771</b>
FIAS Standard Sampling Probe Assembly, 1.0 mm i.d.* Includes Sampling Probe with FEP Tube and Screw Fitting (B3001769) and Capillary Tubing Assembly (B0191060).	<b>B3001772</b>

\*This probe cannot be used with AS-90s, which have the older sampling probe holder.

## Used Oil Autosampler Probe

Autosampler probe for the AS-90plus, AS-93plus and S10 Autosamplers. The probe includes a particulate filter on the tip to remove fibers.

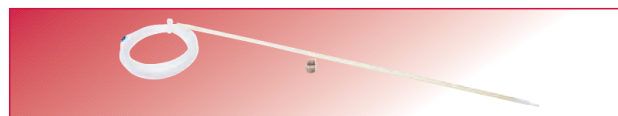
Description	Part No.
Used Oil Autosampler Probe	<b>N0771529</b>

## Sampling Probe Assembly Components

Description	Part No.
Stainless Steel Sampling Probe with Screw Fitting Requires, but does not include, one of the capillary tubing assemblies described below.	<b>B3000152</b>
Flame Capillary Tubing Assembly 1 m length, 0.6 mm i.d., one fitting	<b>B3000157</b>
FIAS Capillary Tubing Assembly 1 m length, 0.6 mm i.d., two fittings	<b>B3000158</b>
FIAS Capillary Tubing Assembly 1 m length, 1.0 mm i.d., two fittings	<b>B0191060</b>

## ESI Autosampler Probes

Description	Part No.
<b>Autosampler Probes</b>	
Autosampler Probe, 0.15 mm	<b>N0777221</b>
Autosampler Probe, 0.20 mm	<b>N0777222</b>
Autosampler Probe, 0.25 mm	<b>N0777223</b>
Autosampler Probe, 0.30 mm	<b>N0777224</b>
Autosampler Probe, 0.50 mm	<b>N0777225</b>
Autosampler Probe, 0.80 mm	<b>N0777226</b>
<b>Sample Probes</b>	
High Flow, Carbon Fiber Support, 0.8 mm i.d. (blue)	<b>N0777285</b>
Low Flow, Carbon Fiber Support, 0.8 mm i.d. (blue)	<b>N0777266</b>
Sample Probe Line Holder	<b>N0777227</b>
<b>Carrier Probes</b>	
High Flow, Carbon Fiber Support, 0.5 mm i.d. (orange)	<b>N0777286</b>
Low Flow, Carbon Fiber Support, 0.5 mm i.d. (orange)	<b>N0777267</b>

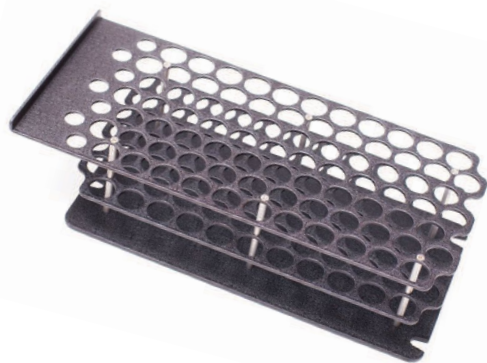


## Cetac Autosampler Probes

Description	Part No.
Cetac Autosampler Probe, 12 inch length, 0.5 mm i.d.	<b>N0774088</b>
Cetac Stainless Steel Sample Probe with Filter Tip	<b>N0777146</b>

## Accessories

Description	Part No.
Cleaning Wire	<b>B0505962</b>
S10 Dust Cover	<b>N2020045</b>



## Sample Trays

### AS-90/90A/90plus Sample Trays

Description/Capacity	Sample Vessel Size	Part No.
Tray A – 144	4.5 mL, 6 mL, 8 mL	<b>B3000133</b>
Tray B – 98*	15 mL, 16 mL	<b>B3000132</b>
Tray C – 36	50 mL	<b>B3000135</b>
Blank Tray		<b>B0501056</b>

\*Polypropylene sample tray.

### AS-91 Sample Trays

Description/Capacity	Sample Vessel Size	Part No.
Tray E – 218	4.5 mL, 6 mL, 8 mL	<b>B0509554</b>
Tray F – 152	15 mL, 16 mL	<b>B0509555</b>
Tray G – 55	50 mL	<b>B0508520</b>

Trays A, C, E, F and G are powder-coated, corrosion-resistant aluminum.

### AS-93plus/S10 Sample Tray

Description/Capacity	Sample Vessel Size	Part No.
Tray F – 9/29	50 mL/15 mL	<b>B3001647</b>
Tray E – 90	4.5 mL, 6 mL, 8 mL	<b>B3140617</b>
Tray F – 60	15 mL, 16 mL	<b>B3140618</b>
Tray G – 30	50 mL	<b>B3140621</b>

AS-93plus sample trays are polypropylene.

### AS-93plus/S10 Rinsing Kit

Description/Capacity	Part No.
AS-93plus Rinsing Kit	<b>B3140236</b>
<b>Spare Parts</b>	
Rinsing Port	<b>B3140622</b>
Adapter M	<b>B0507919</b>
Pump Tube – 2.79 mm i.d. (pkg. 6)	<b>B3140721</b>
Pump Tube – 1.14 mm i.d. (pkg. 6)	<b>B3140730</b>
Tygon® Drain Tube – 2 m	<b>B0509650</b>
PVC Rinse Liquid Feed Tube – 2 m	<b>B0048139</b>
Connector	<b>B3140715</b>

## Cetac Autosampler Supplies

### Racks

Rack	Vial Size	Part No.
21-Position	50 mL	<b>N0777152</b>
24-Position	30 mL	<b>N0777151</b>
40-Position	20 mL	<b>N0777150</b>
40-Position	20 mL	<b>N0777169</b>
40-Position/Gilson 29	20 mL	<b>N0777155</b>
45-Position/120 cc Sample Rack (oils)		<b>N0777298</b>
60-Position	14 mL	<b>N0777149</b>
80-Position Collection Metal for Oil		<b>N0774085</b>
90-Position	8 mL	<b>N0777148</b>
90-Position (Round Hole)	8 mL	<b>N0777153</b>
90-Position Collection Metal for Oil		<b>N0777154</b>

## ESI Autosampler Supplies

### Racks and Rack Covers

#### Standard Racks

Description	Size	Diameter	Part No.
10-Position		28 mm	<b>N0777228</b>
24-Position	4 x 6	14 mm	<b>N0777234</b>
Adapter Plate**			<b>N0777235</b>

\*\*For Gemetec/Cetac ASX-100's racks

#### Micro Racks

21-Position	3 x 7	14 mm	<b>N0777229</b>
40-Position	4 x 10	14 mm	<b>N0777230</b>
60-Position	5 x 12	8 mm	<b>N0777231</b>
90-Position	5 x 12		<b>N0777232</b>
Cover for Micro Racks			<b>N0777233</b>

#### Large Racks

21-Position	3 x 7	30 mm	<b>N0777242</b>
40-Position	4 x 10	20 mm	<b>N0777243</b>
60-Position	5 x 12	16 mm	<b>N0777244</b>
90-Position	6 x 15	13 mm	<b>N0777245</b>

#### Super Racks

10-Position***	2 x 5	61 mm	<b>N0777253</b>
12-Position	2 x 6	50 mm	<b>N0777252</b>
21-Position	3 x 7	22 mm	<b>N0777251</b>
21-Position	3 x 7	28 mm	<b>N0777250</b>
21-Position	3 x 7	30 mm	<b>N0777249</b>
27-Position	3 x 9	28 mm	<b>N0777248</b>
80-Position	5 x 16	16 mm	<b>N0777247</b>
120-Position	6 x 20	13 mm	<b>N0777246</b>

\*\*\*Holds 205 mL bottles.

## Polypropylene Autosampler Tubes for AA, ICP-OES and ICP-MS



### Standard Tubes with Screw Caps and Printed Graduations

Translucent polypropylene tubes are designed to provide you with excellent chemical resistance.

Capacity	Size	Description	Qty/Pack	Qty/Case	Part No.
15 mL Conical	17 mm x 120 mm	50/Bag, 10 Bags/Case	50	500	<b>B0193233</b>
50 mL Conical/Freestanding	28 mm x 115 mm	25/Bag, 20 Bags/Case	25	500	<b>B0193234</b>

### Autosampler Tubes with Round Bottom

Capacity	Size	Type	Qty/Pack	Part No.
5 mL Round Bottom	12 mm x 75 mm	Round Bottom	500	<b>B0193235</b>
8 mL Round Bottom	13 mm x 100 mm	Round Bottom	1,200	<b>N0777156</b>
8 mL Round Bottom	13 mm x 100 mm	Round Bottom/Bulk	1,000	<b>B0508901</b>
8 mL Round Bottom	13 mm x 100 mm	Round Bottom	250	<b>N0777159</b>
15 mL Round Bottom	17 mm x 100 mm	Round Bottom	1,200	<b>N0777167</b>
		Plug for 15 mL Vials (Part No. N0777167)	1,200	<b>N0777599</b>
15 mL Round Bottom	17 mm x 100 mm	Round Bottom	250	<b>N0777168</b>
16 mL Round Bottom	17 mm x 100 mm	Round Bottom/Packs of 125	1,000	<b>N9301205</b>
50 mL Round Bottom	30 mm x 115 mm	Round Bottom/Bulk	500	<b>N0777158</b>
50 mL Round Bottom	30 mm x 115 mm	Round Bottom/50 Tubes per bag	500	<b>N0777164</b>

### SuperClear™ Tubes with Printed Graduations

SuperClear tubes are made from a unique medical grade resin that is far more durable than commodity grade resins used in most other brands of tubes. Tubes are available with either a flat cap with a two stage seal, or a plug style cap that includes a very deep sealing area.

Capacity	Size	Description	Qty/Pack	Qty/Case	Part No.
<b>15 mL SuperClear Tubes with Flat Caps</b>					
15 mL Conical	17 mm x 118 mm	50/Bag, 10 Bags/Case	50	500	<b>N0777701</b>
15 mL Conical	17 mm x 118 mm	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50	500	<b>N0777702</b>
15 mL Conical	17 mm x 118 mm	Bulk, Tubes & Caps in Separate Bags	500	500	<b>N0777703</b>
<b>50 mL SuperClear Tubes with Flat Caps</b>					
50 mL Conical	29 mm x 115 mm	50/Bag, 10 Bags/Case	50	500	<b>N0777691</b>
50 mL Conical	29 mm x 115 mm	25/Rack, 20 Racks/Case	25	500	<b>N0777692</b>
50 mL Conical	29 mm x 115 mm	Bulk, Tubes & Caps in Separate Bags	500	500	<b>N0777693</b>

### PerformR™ Freestanding Tubes with Printed Graduations

Freestanding 50 mL Tubes are available for use in those applications where a rack is not available. They include a large white solvent resistant writing area and black graduations. Available with either a flat cap or a plug style cap. Certified to IATA 95kPa Standard.

Capacity	Size	Description	Qty/Pack	Qty/Case	Part No.
<b>Freestanding 50 mL Tubes with Flat Caps</b>					
50 mL Conical/Freestanding	29 mm x 115 mm	50/Bag, 10 Bags/Case	50	500	<b>N0777697</b>
50 mL Conical/Freestanding	29 mm x 115 mm	Bulk, Tubes & Caps in Separate Bags	500	500	<b>N0777698</b>

# CONSUMABLE APPLICATION PACKS



We've taken the guesswork out of ordering. Everything you need to run your analysis – from lamps and standards to application notes – in one, easy-to-order pack.

## **PinAAcle 900Z Application Pack for Blood Lead Determination (Part No. N0770885)**

Centers for Disease Control (CDC) require action for blood-lead level concentration above the 10 µg/dL guideline. Validated applications to determine whole blood levels are possible with PinAAcle 900Z with application pack.

Includes: Lamps, Standards, Graphite Tubes, and Sample Cups\*.



## **PinAAcle 900 Application Pack for Trace Metals in Water by GFAAS (Method 200.9) (Part No. N0770886)**

PinAAcle 900 with application pack helps analyze several trace elements – including arsenic, cadmium, lead, selenium and thallium – that are recognized as toxic or carcinogenic in drinking water.

Includes: Lamps, Standards, Graphite Tubes, and Sample Cups\*.



## **PinAAcle 900 Application Pack for Toxic and Trace Elements in Food (Part No. N0770887)**

Ingesting of trace elements from food can be linked to nutrition, disease, and even physiological development. PinAAcle 900 with application pack helps determine the presence of these elements.

Includes: Lamps, Standards, Burner Head, Graphite Tubes, and Sample Cups\*.



## **Optima 8x00 Application Pack for Toxicity Characteristic Leaching Procedure (TCLP) Extracts by Method 6010 (Part No. N0770888)**

This application pack contains all the consumables to run TCLP, the most quantitative test required by the EPA to determine the toxicity levels and disposal regulations for unknown materials.

Includes: Autosampler Tubes and Standards\*.



## **Optima 8300 Application Pack for Multi-element Analysis of Rocks and Sediment (Part No. N0770889)**

Optima 8300 with application pack can be used to determine if soils are deficient in micronutrients or if they contain toxic heavy metal contamination.

Includes: Autosampler Tubes, Pump Tubing, Standards, Mixing Block, and Internal Standard probe\*.

Description	Instrument	Part No.
Blood Lead Determination	PinAAcle 900Z	<b>N0770885</b>
Trace Metals in Water by GFAAS	PinAAcle 900	<b>N0770886</b>
Toxic and Trace Elements in Food	PinAAcle 900	<b>N0770887</b>
Toxicity Characteristic Leaching Procedure (TCLP) Extracts	Optima 8x00	<b>N0770888</b>
Multi-element Analysis of Rocks and Sediment	Optima 8300	<b>N0770889</b>

\* Please visit our website for complete details on what is included in each Application Pack.

## PIONEERED THE USE OF FLOW INJECTION TECHNIQUES



The use of flow injection saves time, money and manpower — while at the same time, extending your analytical flexibility and capabilities.

PerkinElmer carries a wide selection of genuine supplies and accessories for your FIMS-100, FIMS-400, FIAS-100 or FIAS-400. Keeping your system in good working order by using only the best replacement parts is the first step in assuring quality analytical performance. Regular maintenance and/or replacement of consumables such as tubing, connectors and adapters will maximize the lifetime and productivity of your PerkinElmer flow injection system.

### Adapters with Internal Thread

#### ¼ in (6.4 mm) Internal Screw Thread

Type*	Description	Part No.
A B	A 1.8 mm o.d. nipple B 3.3 mm o.d. nipple	B0193342 B0506716
C	4 mm o.d. nipple	B0196850
E	For the quartz cell	B0196857
F	0.7 mm o.d. Pt/Ir capillary nipple	B0193873
G	Two nipples to connect tubes to the pre-concentration accessory	B0501580

### Connectors

Type*	Description	Part No.
IA	Connector with nipples for 1.7 to 3.2 mm i.d. tubes	B0199233
IB	Connector with nipples for 2.4 to 3.2 mm i.d. tubes	B0196882
II	Connector with ¼ in (6.4 mm) internal screw thread	B0196704
IIIA	T-piece with nipples for 1.5 to 2.5 mm i.d. tubes	B0199035
IIIB	T-piece with nipples for 3.5 to 4.5 mm i.d. tubes	B0198201

### Adapters with External Thread

#### ¼ in (6.4 mm) External Screw Thread

Type*	Description	Part No.
K L	K 1.8 mm o.d. nipple L 2.8 mm o.d. nipple	B0507918 B0507920
M	4 mm o.d. nipple	B0507919
N	0.7 mm o.d. Pt/Ir capillary nipple	B0507949
	Screw Plug	B0507921

\*Type designation refers to diagrams in instrument manuals.

## Mixing/Separation Assembly

Complete modular unit, consisting of two mixing manifolds with tubing adapters, a gas liquid separator with a PTFE membrane, five spare PTFE membranes, one PTFE tube (110 mm long) and one PTFE tube (300 mm long).

Description	Part No.
Mixing/Separation Assembly	<b>B0507957</b>

### Mixing Block

Modular “building block” type mixing manifold with one mixing channel and three connections, two inlet and one outlet. Made from chemically-resistant plastic. Several of these blocks can be “plugged” together easily to create a single unit with enhanced mixing capabilities.



Description	Part No.
Mixing Block	<b>B0507962</b>

### Gas/Liquid Separator

Modular “building block” type gas-liquid separator made from chemically-resistant plastic. An exchangeable PTFE membrane in the screw cap of the separator prevents liquid from being carried into the quartz cell when working with strong foaming samples.



Description	Part No.
Gas/Liquid Separator	<b>B0507959</b>
Glass Gas/Liquid Separator	<b>B0193772</b>
Gas/Liquid Separator Holder for Glass Separator	<b>B0509479</b>
PTFE Membrane (pkg. 50)	<b>B0508306</b>
Mixing Manifold for Glass Gas/Liquid Separator	<b>B0187258</b>

### Tool, Screw Connectors

Description	Part No.
Tool, Screw Connectors	<b>B0501315</b>

### Flow Injection Furnace Supplies

Description	Part No.
FIAS-Furnace Sample Transfer Tube	<b>B0509612</b>
Quartz Pipette Tip/20 mm (pkg. 1)	<b>B0510032</b>
Silicone Tube	<b>B0029796</b>

### Sample Loops

Description	Part No.
200 µL	<b>B0194048</b>
500 µL	<b>B0194049</b>
1,000 µL	<b>B0501000</b>

## Tubing

Peristaltic pump tubing has a wall thickness of 0.84 mm.

### 3-Stop Peristaltic Pump Tubing Pkg. 12

Tubing i.d.	Color Code	Part No.
0.76 mm	Black/black	<b>B0506058</b>
1.14 mm	Red/red	<b>B0193160</b>
1.52 mm	Yellow/blue	<b>B0193161</b>
2.06 mm	Violet/violet	<b>B0199034</b>
3.18 mm	Black/white	<b>B0508310</b>

### Peristaltic Pump Tubing, Solvent-Resistant

Tubing i.d.	Color Code	Part No.
1.14 mm	White/white	<b>B0507692</b>

### PTFE Tubing

Tubing i.d.	Length	Part No.
0.35 mm	1 m	<b>B0506060</b>
0.5 mm	1 m	<b>B0507020</b>
0.7 mm	1 m	<b>B0507021</b>
1.0 mm	1 m	<b>B0029792</b>
1.75 mm	1 m	<b>B0017998</b>

### PTFE Tubing Assemblies

Tubing i.d.	Screw Fittings Color	Length	Part No.
0.35 mm	White	60 mm	<b>B0501594</b>
1.0 mm	Blue	110 mm	<b>B0191058</b>
1.0 mm	Blue	300 mm	<b>B0198097</b>
1.0 mm	Blue	700 mm	<b>B0191059</b>
1.0 mm	Blue	1,000 mm	<b>B0191060</b>
1.75 mm	Black	250 mm	<b>B0198099</b>
1.75 mm	Black	450 mm	<b>B0198100</b>
3-dimensional reactor 0.35 mm (two flanged ends)			<b>B0501595</b>

### PVC Tubing

Description	Part No.
3 mm i.d. with 1 mm wall thickness, no fittings	<b>B0048139</b>

Price per meter.

### Silicone Tubing

Description	Part No.
1 m x 5 mm i.d., no fittings	<b>B0018283</b>
1 m x 3 mm i.d.	<b>B0070126</b>
For FIMS Cell Exhaust Outlet, 3 m	<b>B0046948</b>

### Rinse Pump Tubing, Pharmed

Tubing i.d.	Color Code	Pkg	Part No.
1.14 mm	Red/red	6	<b>B3140730</b>
2.79 mm	Purple/white	6	<b>B3140721</b>



# EXPERIENCE RELIABLE, ACCURATE RESULTS



## Inorganic Aqueous Standards

PerkinElmer offers a complete selection of atomic spectroscopy aqueous standards. Each solution is supplied with a comprehensive Certificate of Analysis that documents the quality and reliability.

### Single-Element Standards – 1,000 mg/L

Element	Symbol	Matrix	Pure Grade 125 mL Part No.	Pure Grade 500 mL Part No.	Pure Plus Grade 125 mL Part No.
Aluminum	Al	2% HNO <sub>3</sub>	N9300184	N9300100	N9303726
Antimony	Sb	2% HNO <sub>3</sub>	N9300207	N9300101	N9303750
Arsenic	As	2% HNO <sub>3</sub>	N9300180	N9300102	N9303727
Barium	Ba	2% HNO <sub>3</sub>	N9300181	N9300103	N9303729
Beryllium	Be	2% HNO <sub>3</sub>	N9300172	N9300104	N9303730
Bismuth	Bi	10% HNO <sub>3</sub>	N9303761	N9300105	N9303731*
Boron	B	H <sub>2</sub> O	N9303760	N9300106	
Cadmium	Cd	2% HNO <sub>3</sub>	N9300176	N9300107	N9303734
Calcium	Ca	2% HNO <sub>3</sub>	N9303763	N9300108	N9303733
Carbon	C	H <sub>2</sub> O	N9303762	N9300109	
Cerium	Ce	2% HNO <sub>3</sub>	N9303765	N9300110	
Cesium	Cs	2% HNO <sub>3</sub>	N9303767	N9300111	
Chromium	Cr	2% HNO <sub>3</sub>	N9300173	N9300112	N9303736
Cobalt	Co	2% HNO <sub>3</sub>	N9303766	N9300113	N9303735
Copper	Cu	2% HNO <sub>3</sub>	N9300183	N9300114	N9303737
Dysprosium	Dy	2% HNO <sub>3</sub>	N9303768	N9300115	
Erbium	Er	2% HNO <sub>3</sub>	N9303769	N9300116	
Europium	Eu	2% HNO <sub>3</sub>	N9303770	N9300117	
Gadolinium	Gd	2% HNO <sub>3</sub>	N9303773	N9300118	
Gallium	Ga	2% HNO <sub>3</sub>	N9303772	N9300119	
Germanium	Ge	H <sub>2</sub> O/0.16% F-	N9303774	N9300120	N9303739*
Gold	Au	10% HCl	N9303759	N9300121	N9303728**
Hafnium	Hf	2% HCl	N9303775	N9300122	
Holmium	Ho	2% HNO <sub>3</sub>	N9303776	N9300123	
Indium	In	2% HNO <sub>3</sub>	N9303777	N9300124	N9303741*

### Pure Grade Standards for AA and ICP-OES

- Analyzed by ICP-OES
- Analyzed by Classical Wet Assay
- 32 trace impurities analyzed by ICP-MS of the final solution and reported on the certificate
- Impurities reported at ppm level
- All Standards are prepared and certified under ISO Guide 34 and ISO 17025 – certified by A2LA



### Pure Plus Grade Standards for ICP-MS

- Analyzed by ICP-OES
- Analyzed by Classical Wet Assay
- 67 trace impurities analyzed by ICP-MS of the final solution and reported on the certificate
- Impurities reported at ppb level
- All Standards are prepared and certified under ISO Guide 34 and ISO 17025 – certified by A2LA

**PerkinElmer Standards are compatible  
with other manufacturers' instruments**

Element	Symbol	Matrix	Pure Grade 125 mL Part No.	Pure Grade 500 mL Part No.	Pure Plus Grade 125 mL Part No.
Iridium	Ir	10% HCl	N9303778	N9300125	
Iron	Fe	2% HNO <sub>3</sub>	N9303771	N9300126	N9303738
Lanthanum	La	2% HNO <sub>3</sub>	N9303780	N9300127	
Lead	Pb	2% HNO <sub>3</sub>	N9300175	N9300128	N9303748
Lithium	Li	2% HNO <sub>3</sub>	N9303781	N9300129	
Lutetium	Lu	2% HNO <sub>3</sub>	N9303782	N9300130	
Magnesium	Mg	2% HNO <sub>3</sub>	N9300179	N9300131	N9303743
Manganese	Mn	2% HNO <sub>3</sub>	N9303783	N9300132	N9303744
Mercury	Hg	10% HNO <sub>3</sub>	N9300174	N9300133	N9303740*
Molybdenum	Mo	H <sub>2</sub> O	N9303784	N9300134	N9303745
Neodymium	Nd	2% HNO <sub>3</sub>	N9303787	N9300135	
Nickel	Ni	2% HNO <sub>3</sub>	N9300177	N9300136	N9303747
Niobium	Nb	H <sub>2</sub> O/0.4% HF	N9303786	N9300137	
Palladium	Pd	10% HCl	N9303789	N9300138	
Phosphorus	P	H <sub>2</sub> O	N9303788	N9300139	
Platinum	Pt	10% HCl	N9303791	N9300140	
Potassium	K	2% HNO <sub>3</sub>	N9303779	N9300141	N9303742
Praseodymium	Pr	2% HNO <sub>3</sub>	N9303790	N9300142	
Rhenium	Re	H <sub>2</sub> O	N9303793	N9300143	
Rhodium	Rh	10% HCl	N9303794	N9300144	N9303749*
Rubidium	Rb	2% HNO <sub>3</sub>	N9303792	N9300145	
Ruthenium	Ru	10% HCl	N9303795	N9300146	
Samarium	Sm	2% HNO <sub>3</sub>	N9303800	N9300147	
Scandium	Sc	2% HNO <sub>3</sub>	N9303798	N9300148	N9303751*
Selenium	Se	2% HNO <sub>3</sub>	N9300182	N9300149	N9303752
Silicon	Si	H <sub>2</sub> O	N9303799	N9300150	
Silver	Ag	2% HNO <sub>3</sub>	N9300171	N9300151	N9303725
Sodium	Na	2% HNO <sub>3</sub>	N9303785	N9300152	N9303746
Strontium	Sr	2% HNO <sub>3</sub>	N9303802	N9300153	
Sulfur	S	H <sub>2</sub> O	N9303796	N9300154	
Tantalum	Ta	H <sub>2</sub> O/0.8% HF	N9303803	N9300155	
Tellurium	Te	5% HNO <sub>3</sub>	N9303805	N9300156	
Terbium	Tb	2% HNO <sub>3</sub>	N9303804	N9300157	N9303753*
Tin	Sn	20% HCl	N9303801	N9300161	N9303838
Thallium	Tl	2% HNO <sub>3</sub>	N9300170	N9300158	N9303755
Thorium	Th	2% HNO <sub>3</sub>	N9303842		
Thulium	Tm	2% HNO <sub>3</sub>	N9303807	N9300160	
Titanium	Ti	H <sub>2</sub> O/tr 0.24% F-	N9303806	N9300162	N9303754
Tungsten	W	H <sub>2</sub> O	N9303809	N9300163	
Uranium	U	2% HNO <sub>3</sub>		N9303844	
Vanadium	V	2% HNO <sub>3</sub>	N9303808	N9300165	N9303756
Ytterbium	Yb	2% HNO <sub>3</sub>	N9303811	N9300166	
Yttrium	Y	2% HNO <sub>3</sub>	N9303810	N9300167	N9303757*
Zinc	Zn	2% HNO <sub>3</sub>	N9300178	N9300168	N9303758
Zirconium	Zr	2% HNO <sub>3</sub>	N9303812	N9300169	

\* 10 mg/L \*\* 100 mg/L

## Single-Element Standards – 10,000 mg/L

Element	Symbol	Matrix	Pure Grade 125 mL Part No.	Pure Grade 500 mL Part No.
Aluminum	Al	5% HNO <sub>3</sub>	N9304111	N9304110
Calcium	Ca	5% HNO <sub>3</sub>	N0691581	N9303764
Copper	Cu	5% HNO <sub>3</sub>	N9304112	
Iron	Fe	5% HNO <sub>3</sub>	N9304113	N9307117
Magnesium	Mg	5% HNO <sub>3</sub>	N0691745	N9304114
Manganese	Mn	5% HNO <sub>3</sub>	N9304115	
Nickel	Ni	5% HNO <sub>3</sub>	N9304117	N9304116
Phosphorus	P	H <sub>2</sub> O	N9304119	N9304118
Potassium	K	5% HNO <sub>3</sub>	N9304121	N9304120
Silicon	Si	H <sub>2</sub> O/4% HF	N9304122	
Sodium	Na	5% HNO <sub>3</sub>	N9304124	N9304123
Sulfur	S	H <sub>2</sub> O	N9304126	N9304125
Yttrium	Y	5% HNO <sub>3</sub>	N9304128	N9304127
Zinc	Zn	5% HNO <sub>3</sub>	N9304129	

## Mixed Calibration Standards

Matrix	Contents	Volume	Part No.
<b>Mixed Calibration Standard</b>			
2% HNO <sub>3</sub>	50 mg/L: As, K 10 mg/L: La, Li, Mn, Ni, Sr, Zn 1 mg/L: Ba, Mg	500 mL	N0691579
<b>Mixed Calibration Standard 1</b>			
2% HNO <sub>3</sub>	500 mg/L: Pb 200 mg/L: Se 150 mg/L: Cd, Zn 100 mg/L: Mn 50 mg/L: Be	125 mL	N9300200
<b>Mixed Calibration Standard 2</b>			
5% HNO <sub>3</sub>	10,000 mg/L: Fe 100 mg/L: Ba, Co, Cu, V	125 mL	N9300201
<b>Mixed Calibration Standard 3</b>			
2% HNO <sub>3</sub> /tr HF	500 mg/L: As 100 mg/L: Mo, Si	125 mL	N9300202
<b>Mixed Calibration Standard 4</b>			
5% HNO <sub>3</sub>	1,000 mg/L: Ca 400 mg/L: K 200 mg/L: Al, Na 20 mg/L: Cr, Ni	125 mL	N9300203
<b>Mixed Calibration Standard 5</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	1,000 mg/L: Mg 200 mg/L: Sb, Tl 100 mg/L: B 50 mg/L: Ag	125 mL	N9300204

## Initial Calibration Verification Standards

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub>	500 mg/L: Ca, K, Mg, Na 200 mg/L: Al, Ba 100 mg/L: Fe 60 mg/L: Sb 50 mg/L: Co, V 40 mg/L: Ni 25 mg/L: Cu 20 mg/L: Zn 15 mg/L: Mn 10 mg/L: Ag, As, Cr, Tl 5 mg/L: Cd, Se 3 mg/L: Pb	500 mL	N9300224
5% HNO <sub>3</sub>	Initial Calibration Verification Standard	125 mL	N9303953

## Quality Control Standards

Matrix	Contents	Volume	Part No.
<b>Quality Control Standard, 21 Elements Pure (Pure XVI)</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9300281
<b>Quality Control Standard, 21 Elements Pure Plus</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9303837
<b>Quality Control Standard, 7A Elements</b>			
5% HNO <sub>3</sub> /tr HF	1,000 mg/L: K 500 mg/L: Si 100 mg/L: Al, B, Ba, Na 50 mg/L: Ag	125 mL	N9300280

## Instrument Calibration Standards for CLP

Matrix	Contents	Volume	Part No.
<b>Instrument Calibration Standard 1</b>			
5% HNO <sub>3</sub>	5,000 mg/L: Ca, K, Mg, Na	125 mL	N9300218
<b>Instrument Calibration Standard 2</b>			
5% HNO <sub>3</sub>	400 mg/L: Ni 200 mg/L: Zn 150 mg/L: Mn 100 mg/L: Ag, Cr	125 mL	N9300219
<b>Instrument Calibration Standard 3</b>			
5% HNO <sub>3</sub>	2,000 mg/L: Al, Ba 1,000 mg/L: Fe 500 mg/L: Co, V 250 mg/L: Cu 50 mg/L: Be	125 mL	N9300220
<b>Instrument Calibration Standard 4</b>			
5% HNO <sub>3</sub>	100 mg/L: As, Tl 50 mg/L: Cd, Se 30 mg/L: Pb	125 mL	N9300221

## Matrix Blanks

Matrix	Volume	Part No.
<b>Water Blank</b>		
ASTM® Type I Water, 18 megohm	125 mL	<b>N9303814</b>
ASTM® Type I Water, 18 megohm	250 mL	<b>N9303813</b>
<b>Hydrochloric Acid Blank</b>		
2% HCl in ASTM® Type I Water	125 mL	<b>N9303815</b>
<b>2% Nitric Acid Blank</b>		
2% HNO <sub>3</sub> in ASTM® Type I Water	125 mL	<b>N0773120</b>
2% HNO <sub>3</sub> in ASTM® Type I Water	500 mL	<b>N9308550</b>
<b>1% Nitric Acid Blank</b>		
1% HNO <sub>3</sub> in ASTM® Type I Water	125 mL	<b>N9303732</b>

## GFAAS Mixed Standard

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub> w/trace of HF	100 mg/L: Al, As, Pb, Sb, Se, Tl 50 mg/L: Ba, Co, Cu, Ni 20 mg/L: Cr, Fe, Mn 10 mg/L: Ag 5 mg/L: Be, Cd	125 mL	<b>N9300244</b>

## AA Test Mix

Matrix	Contents	Volume	Part No.
2% HCl	50 mg/L: Ca, Cr, Cu, Fe, Ni 20 mg/L: K 10 mg/L: Na, Zn	125 mL	<b>02900540</b>

## Contract Required Detection Limits (CRDL)

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	120 mg/L: Sb 100 mg/L: Co, V 80 mg/L: Ni 50 mg/L: Cu 40 mg/L: Zn 30 mg/L: Mn 20 mg/L: Ag, As, Cr, Tl 10 mg/L: Be, Cd, Se 6 mg/L: Pb	125 mL	<b>N9300225</b>

## Matrix Modifiers for Graphite Furnace AA

Matrix	Contents	Volume	Part No.
Mg(NO <sub>3</sub> ) <sub>2</sub>	1% Mg (HNO <sub>3</sub> ) <sub>2</sub> (as nitrate)	100 mL	<b>B0190634</b>
Pd	1% Pd (as nitrate)	50 mL	<b>B0190635</b>
NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	10% NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	100 mL	<b>N9303445</b>

## Reagents

Matrix	Volume	Part No.
Triton® X-100 Wetting Agent	100 mL	<b>N9300260</b>
Antifoaming Silicone Emulsion	500 mL	<b>B0507226</b>
Glycerol	1 L	<b>B3141064</b>

## Instrument Check Standards

Matrix	Contents	Volume	Part No.
<b>Instrument Check Standard 1</b>			
2% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	10 mg/L: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	<b>N9303821</b>
<b>Instrument Check Standard 3</b>			
2% HNO <sub>3</sub>	200 mg/L: Ca, Fe, K, Mg, Na	125 mL	<b>N9303822</b>

Matrix	Contents	Volume	Part No.
<b>Instrument Check Standard 4</b>			
2% HNO <sub>3</sub>	10 mg/L: Mo, Th, U	125 mL	<b>N9303823</b>
<b>Instrument Check Standard 5</b>			
2% HNO <sub>3</sub> /tr HF	10 mg/L: Mo, Sn, Sr, Ti	125 mL	<b>N9303824</b>

## Interference Check Standards

Matrix	Contents	Volume	Part No.
<b>Interference Check Standard 1</b>			
H <sub>2</sub> O/tr HNO <sub>3</sub> /0.6% Tartaric Acid	1,000 mg/L: Sb	125 mL	<b>N9300207</b>
<b>Interference Check Standard 5</b>			
5% HNO <sub>3</sub>	6,000 mg/L: Ca 5,000 mg/L: Fe 3,000 mg/L: Mg 1,200 mg/L: Al 1,000 mg/L: Na	125 mL	<b>N9300208</b>
<b>Interference Check Standard 18</b>			
5% HNO <sub>3</sub>	20,000 mg/L: K 1,000 mg/L: As, Pb, Tl 500 mg/L: Se 300 mg/L: Ag, Ba, Cd, Co, Cr, Cu, Ni, V, Zn 200 mg/L: Mn 100 mg/L: Be, Hg*	125 mL	<b>N9300205</b>
<b>Interferents A</b>			
5% HNO <sub>3</sub>	5,000 mg/L: Al, Ca, Mg 2,000 mg/L: Fe	500 mL	<b>N9300226</b>
<b>Alternate Interferents A</b>			
5% HNO <sub>3</sub>	1,000 mg/L: Cr, Cu, Mn, Ni, Ti, V	500 mL	<b>N9300228</b>
<b>Analytes B</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Cd, Ni, Zn 60 mg/L: Sb 50 mg/L: Ba, Be, Co, Cr, Cu, Mn, V 20 mg/L: Ag 10 mg/L: As, Tl 5 mg/L: Pb, Se	125 mL	<b>N9300227</b>
<b>Alternate Analytes B</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Al, As, B, Mo, Na, Sb, Se, Tl 10 mg/L: Ca, Fe, Mg, Si	125 mL	<b>N9300229</b>
<b>Interference Check Standards</b>			
H <sub>2</sub> O/tr HNO <sub>3</sub> /0.6% Tartaric Acid	1,000 mg/L: Sb	500 mL	<b>N9303797</b>
<b>Interference Check Solution 1 (for SW-846 &amp; ILM 05.2)</b>			
5% HNO <sub>3</sub> /tr HF	10,000 mg/L: Cl 2,000 mg/L: C 1,000 mg/L: Al, Ca, Fe, K, Mg, Na, P, S 20 mg/L: Mo, Ti	125 mL	<b>N9303828</b>
<b>Interference Check Solution 2 (for SW-846)</b>			
2% HNO <sub>3</sub>	10 mg/L: Ag, As, Cd, Co, Cr, Cu, Mn, Ni, Zn	125 mL	<b>N9303830</b>
<b>Analytes C (for ILM 05.2)</b>			
2% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	2 mg/L: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Hg*, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	<b>N9303831</b>

\*Supplied in separate bottle.

## Universal Data Acquisition Standards Kit

Matrix	Contents	Volume	Part No.
<b>Solution Kit (Includes items listed)</b>			<b>N9306225</b>
5% HNO <sub>3</sub>	10 mg/L: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Sc, Tb, Th, Tm, Y, Yb	125 mL	<b>N9300232</b>
5% HNO <sub>3</sub>	10 mg/L: Al, Ag, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	125 mL	<b>N9300233</b>
10% HCl /1% HNO <sub>3</sub>	10 mg/L: Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	125 mL	<b>N9300234</b>
5% HNO <sub>3</sub>	10 mg/L: Hg	125 mL	<b>N9300253</b>
H <sub>2</sub> O/tr HF /tr HNO <sub>3</sub>	10 mg/L: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	<b>N9300235</b>

## Water Pollutant Standards

Matrix	Contents	Volume	Part No.
<b>Primary Drinking Water Metals</b>			
2% HNO <sub>3</sub>	100 mg/L: Ba 10 mg/L: Ag, As, Cr, Hg*, Pb 5 mg/L: Cd, Se	125 mL	<b>N9300216</b>
<b>Secondary Drinking Water Metals</b>			
2% HNO <sub>3</sub>	500 mg/L: Zn 100 mg/L: Cu 30 mg/L: Fe 5 mg/L: Mn	125 mL	<b>N9300217</b>
<b>Trace Metals I</b>			
5% HNO <sub>3</sub>	500 mg/L: Al 250 mg/L: V 100 mg/L: As, Be, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn 25 mg/L: Cd, Se 10 mg/L: Hg*	125 mL	<b>N9300211</b>
<b>Trace Metals II</b>			
2% HNO <sub>3</sub>	20 mg/L: Sb, Tl 10 mg/L: Ag	125 mL	<b>N9300212</b>
<b>Trace Metals III</b>			
2% HNO <sub>3</sub>	500 mg/L: Ba, Ca, Mo, Na 100 mg/L: K, Mg	125 mL	<b>N9300213</b>
<b>Alternate Metals I</b>			
2% HNO <sub>3</sub>	20 mg/L: Al, Fe, V 10 mg/L: Co, Cu, Mn, Ni, Zn 5 mg/L: Be, Sb, Tl	125 mL	<b>N9300214</b>
<b>Alternate Metals II</b>			
2% HNO <sub>3</sub>	500 mg/L: Ca, Na 100 mg/L: K, Mg	125 mL	<b>N9300215</b>
2% HNO <sub>3</sub>	500 mg/L: Ca, Na 100 mg/L: K, Mg	500 mL	<b>N9303952</b>

\*Supplied in separate bottle.

## Instrument Setup Solutions

Matrix	Contents	Volume	Part No.
<b>Vis Wavecal Solution</b>			
2% HNO <sub>3</sub>	50 mg/L: K 10 mg/L: La, Li, Mn, Na, Sr 1 mg/L: Ba, Ca	250 mL	<b>N9302946</b>
<b>UV Wavecal Solution</b>			
5% HCl	100 mg/L: K, P, S 20 mg/L: As, La, Li, Mn, Mo, Na, Ni, Sc	250 mL	<b>N0681470</b>
5% HCl	100 mg/L: K, P, S 20 mg/L: As, La, Li, Mn, Mo, Na, Ni, Sc 1 mg/L: Ca	500 mL	<b>N0582152</b>
<b>Low UV Standard</b>			
2% HNO <sub>3</sub>	10 mg/L: Al, P, S	250 mL	<b>N0691580</b>
<b>Calcium Stray Light Standard</b>			
H <sub>2</sub> O	10,000 mg/L: Ca	125 mL	<b>N0691581</b>

## Spike Sample Analysis

Matrix	Contents	Volume	Part No.
<b>Spike Sample Standard I</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	200 mg/L: Al, As, Ba, Se, Tl 100 mg/L: Fe 50 mg/L: Co, Mn, Ni, Pb, Sb, V, Zn 25 mg/L: Cu 20 mg/L: Cr 5 mg/L: Ag, Be, Cd	125 mL	<b>N9300230</b>
<b>Spike Sample Standard I (water)</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	500 mg/L: Fe 250 mg/L: Ba, Zn 100 mg/L: Co, Cr, Cu, Mn, Ni, Sb, V 50 mg/L: As, Pb 25 mg/L: Ag, Be, Cd, Se, Tl	125 mL	<b>N9303839</b>
<b>Spike Sample Standard 2 (soil)</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	250 mg/L: Ba, Cr, Cu, Zn 150 mg/L: V 125 mg/L: Ni 100 mg/L: Co, Pb, Sb 50 mg/L: As, Cd 25 mg/L: Ag, Be, Se, Tl	125 mL	<b>N9303840</b>
<b>Spike Sample Standard 3 (for ILM 05.2)</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	200 mg/L: Al, Ba 50 mg/L: Co, Mn, Ni, V, Zn 25 mg/L: Cu 20 mg/L: Cr 10 mg/L: Sb 5 mg/L: Ag, Be, Cd, Tl 4 mg/L: As 2 mg/L: Pb 1 mg/L: Se	125 mL	<b>N9303841</b>

## Internal Standard Solutions

Matrix	Contents	Volume	Part No.
<b>Multi-Element Internal Standard</b>			
2% HNO <sub>3</sub>	10 mg/L: Bi, Ho, In, <sup>6</sup> Li, Sc, Tb, Y	125 mL	<b>N9303834</b>
<b>Internal Standard Mix</b>			
5-10% HNO <sub>3</sub>	10 mg/L: Bi, Ge, In, <sup>6</sup> Li, Sc, Tb, Y	125 mL	<b>N9303832</b>
<b>Internal Standard Mix</b>			
5-10% HNO <sub>3</sub>	10 mg/L: Bi, Ge, In, <sup>6</sup> Li, Sc, Tb, Y	500 mL	<b>N9303833</b>

## Isotope Standard

Matrix	Contents	Volume	Part No.
<b>Lithium 6 Standard</b>			
2% HNO <sub>3</sub>	100 mg/L: <sup>6</sup> Li	125 mL	<b>N9303955</b>

## Wash Standards

Matrix	Contents	Volume	Part No.
<b>ELAN DRC Wash Solution</b>			
0.5% HNO <sub>3</sub>		250 mL	<b>N8125033</b>
<b>ELAN 9000/6X00/DRC-e Wash Solution</b>			
1% HNO <sub>3</sub>		1,000 mL	<b>N8122038</b>
<b>NexION Wash Solution</b>			
1% HNO <sub>3</sub>		250 mL	<b>N8145050</b>
<b>Water Blank</b>			
ASTM® Type I Water, 18 megohm		125 mL	<b>N9303814</b>

## Multi-Element Standards

Matrix	Contents	Volume	Part No.
<b>Multi-Element Solution</b>			
5% HNO <sub>3</sub>	1,000 mg/L: Al, Ca, Fe, Mg	500 mL	<b>N9307113</b>
<b>Multi-Element Solution</b>			
5% HNO <sub>3</sub>	1,000 mg/L: K, Na, P	500 mL	<b>N9307114</b>
<b>Multi-Element Solution</b>			
2-5% HNO <sub>3</sub>	1,000 mg/L: Mo, Sb, Sn, W, Zr	500 mL	<b>N9307115</b>
<b>Multi-Element Solution</b>			
5% HNO <sub>3</sub>	1,000 mg/L: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn	500 mL	<b>N9307116</b>
<b>Multi-Element Solution 1</b>			
2% HNO <sub>3</sub>	10 mg/L: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U	125 mL	<b>N9300231</b>
<b>Multi-Element Solution 2</b>			
5% HNO <sub>3</sub>	10 mg/L: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb	125 mL	<b>N9300232</b>
<b>Multi-Element Solution 3</b>			
5% HNO <sub>3</sub>	10 mg/L: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	125 mL	<b>N9300233</b>
Multi-Element Solution 3 without Mercury			<b>N9301720</b>

Matrix	Contents	Volume	Part No.
<b>Multi-Element Solution 4</b>			
10% HCl/1% HNO <sub>3</sub>	10 mg/L: Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	125 mL	<b>N9300234</b>
<b>Multi-Element Solution 5</b>			
H <sub>2</sub> O/tr HF/tr HNO <sub>3</sub>	10 mg/L: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	<b>N9300235</b>
<b>Set of Multi-Element Solutions Includes: (1 bottle of each)</b>			<b>N9300236</b>
Multi-Element Solution 2		125 mL	<b>N9300232</b>
Multi-Element Solution 3		125 mL	<b>N9300233</b>
Multi-Element Solution 4		125 mL	<b>N9300234</b>
Multi-Element Solution 5		125 mL	<b>N9300235</b>
Water Blank		125 mL	<b>N9303814</b>
Hydrochloric Acid Blank		125 mL	<b>N9303815</b>
2% Nitric Acid Blank		125 mL	<b>N0773120</b>
<b>PerkinElmer Pure I</b>			
5% HNO <sub>3</sub>	400 mg/L: Tl 200 mg/L: Bi, In, Pb 150 mg/L: Ga 100 mg/L: Al 50 mg/L: Ag, Ni 25 mg/L: Cr 20 mg/L: Cd, Co, Cu, Zn 15 mg/L: B, Fe 5 mg/L: Ba, Mn 1 mg/L: Be, Sr	125 mL	<b>N9303940</b>
<b>PerkinElmer Pure IV (Quality Control Standard 23)</b>			
10% HNO <sub>3</sub>	1,000 mg/L: Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn	125 mL	<b>N9303941</b>
<b>PerkinElmer Pure VIII</b>			
5% HNO <sub>3</sub>	100 mg/L: Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Se, Sr, Te, Tl, Zn	125 mL	<b>N9303942</b>
<b>PerkinElmer Pure IX</b>			
5% HNO <sub>3</sub>	100 mg/L: As, Be, Pb, Cd	125 mL	<b>N9303943</b>
<b>PerkinElmer Pure X</b>			
2% HNO <sub>3</sub>	35,000 ug/L: Ca 15,000 ug/L: Mg 8,000 ug/L: Na 3,000 ug/L: K 100 ug/L: B, Fe, Mo, Sr 50 ug/L: As, Ba, Ni, V, Zn 30 ug/L: Mn 25 ug/L: Co, Pb 20 ug/L: Be, Cd, Cr, Cu 10 ug/L: Bi, Se, Tl	125 mL	<b>N9303944</b>
<b>8 mg/L Mercury in 5% HNO<sub>3</sub></b>			
5% HNO <sub>3</sub>	8 mg/L: Hg	125 mL	<b>N9303954</b>
<b>PerkinElmer Pure XI</b>			
5% HNO <sub>3</sub>	2,500 mg/L: Zn 900 mg/L: Cr, Pb 800 mg/L: Cu 200 mg/L: Ni 10 mg/L: Cd	125 mL	<b>N9303945</b>

## Multi-Element Standards

Matrix	Contents	Volume	Part No.
<b>5 mg/L Mercury in 5% HNO<sub>3</sub></b>			
5% HNO <sub>3</sub>	5 mg/L: Hg in 5% HNO <sub>3</sub>	125 mL	<b>N9303949</b>
<b>PerkinElmer Pure XIII</b>			
5% HNO <sub>3</sub>	500 mg/L: Al 250 mg/L: V 100 mg/L: As, Be, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn 25 mg/L: Cd, Se	125 mL	<b>N9303946</b>
<b>PerkinElmer Pure XVI (Quality Control Standard, 21 Elements)</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	<b>N9300281</b>
<b>PerkinElmer Pure XVII</b>			
15% HCl /trace HF	100 mg/L: Hf, Ir, Sb, Sn, Ta, Tl, Zr	125 mL	<b>N9303948</b>

\*Supplied in separate bottle.

## Instrument Calibration Standards

Matrix	Contents	Volume	Part No.
<b>Instrument Calibration Standard 1</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid	20 mg/L: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn	125 mL	<b>N9303816</b>
<b>Instrument Calibration Standard 2</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	<b>N9301721</b>
<b>Instrument Calibration Standard 3</b>			
5% HNO <sub>3</sub>	1,000 mg/L: Ca, Fe, K, Mg, Na	125 mL	<b>N9303818</b>
<b>Initial Calibration Verification Standard 1</b>			
5% HNO <sub>3</sub> /tr Tartaric Acid	1,000 mg/L: Ca, Fe, K, Mg, Na, Sr 10 mg/L: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, Th, U	125 mL	<b>N9303825</b>
<b>Initial Calibration Verification Standard 2</b>			
2% HNO <sub>3</sub> /tr HF	10 mg/L: Sn, Ti	125 mL	<b>N9303826</b>
<b>Elan 6100 DRC Setup/Stab/Masscal Solution</b>			
0.5% HNO <sub>3</sub>	10 µg/L: Ba 1 µg/L: Al, Cd, Ce, Cr, Cu, In, Pb, Mg, Mn, Rh, Th	1,000 mL	<b>N8125035</b>
<b>Elan DRC/DRCplus/DRC II Solution Kit Includes: (items listed below)</b>			
	2 x 1,000 mL: Setup/Stability/Masscal Solution		<b>N8125035</b>
	2 x 250 mL: Wash Solution		<b>N8125033</b>
	1 x 250 mL: Sensitivity/Detection Limit Solution		<b>N8125034</b>
	1 x 125 mL: Methanol Blank Solution		<b>N8125037</b>
	1 x 125 mL: Chromium in Methanol Solution		<b>N8125038</b>

Matrix	Contents	Volume	Part No.
<b>Elan 9000/6100 Solution Kit Includes: (items listed below)</b>			
	2 x 1,000 mL: Setup/Stability/Masscal Solution		<b>N8125030</b>
	1 x 125 mL: Dual-Detector Calibration Solution		<b>N8125010</b>
	1 x 1000 mL: Wash Solution		<b>N8122038</b>
	1 x 250 mL: Detection Limit Solution		<b>N8125031</b>
<b>Elan 9000/6100 Setup/Stability/Masscal Solution</b>			
1% HNO <sub>3</sub>	10 µg/L: Ba, Cd, Ce, Cu, In, Pb, Mg, Rh, U	1,000 mL	<b>N8125030</b>
<b>Elan 6000/5000 Plasma Setup Solution</b>			
2% HNO <sub>3</sub>	10 µg/L: Ba, Cd, Ce, Cu, Ge, Pb, Mg, Rh, Sc, Tb, Tl	1,000 mL	<b>N8122014</b>
<b>Elan 5000 Detection Limit Solution</b>			
2% HNO <sub>3</sub>	10 µg/L: Be, Co, Ge, In, Tl, U	100 mL	<b>N8122017</b>

## SmartTune Standards

Matrix	Contents	Volume	Part No.
<b>SmartTune Solution for Standard ELANS/DRC-e</b>			
1% HNO <sub>3</sub>	10 µg/L: Ba, Be, Ce, Co, In, Pb, Mg, Rh, U	1,000 mL	<b>N8125040</b>
<b>SmartTune Solution for DRC/DRCplus/DRC II</b>			
0.5% HNO <sub>3</sub>	10 µg/L: Ba 1 µg/L: Be, Ce, Co, In, Fe, Pb, Mg, Th, U	1,000 mL	<b>N8125041</b>
<b>Tuning Solution 1</b>			
2% HNO <sub>3</sub> /5% HCl	10 mg/L: Ba, Be, Ce, Co, In, Li, Mg, Pb, Rh, Tl, U, Y	125 mL	<b>N9303843</b>
<b>NexION Setup Solution</b>			
1% HNO <sub>3</sub>	1 µg/L: Be, Ce, Fe, In, Li, Mg, Pb, U	500 mL	<b>N8145051</b>

## Environmental Method Sets

Matrix	Contents	Volume	Part No.
<b>Environmental Standard Kit for non-DRC/ Standard ICP-MS Instruments Includes: (1 bottle of each)</b>			
	1,000 mg/L: Ca, K, Mg, Na	125 mL	<b>N9307805</b>
	1,000 mg/L: Al, Fe	125 mL	<b>N9307806</b>
	100 mg/L: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	<b>N9301721</b>
	100 mg/L: B, Th, U	125 mL	<b>N9307807</b>
	10 mg/L: Hg	125 mL	<b>N9300253</b>
	Internal Standard Mix 50 mg/L: Sc 20 mg/L: Ge 10 mg/L: In, Ir, 6Li, Rh, Tb, Y	125 mL	<b>N9307808</b>

## Environmental Method Sets

Matrix	Contents	Volume	Part No.
<b>Environmental Standard Kit for DRC Instruments Includes: (1 bottle of each)</b>			<b>N9307112</b>
	1,000 mg/L: Ca, K, Mg, Na	125 mL	<b>N9307805</b>
	1,000 mg/L: Al, Fe	125 mL	<b>N9307806</b>
	100 mg/L: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	<b>N9301721</b>
	100 mg/L: B, Th, U	125 mL	<b>N9307807</b>
	10 mg/L: Hg	125 mL	<b>N9300253</b>
	Internal Standard Mix 200 mg/L: Sc 20 mg/L: Ga 10 mg/L: In, Ir, Rh, Tm	125 mL	<b>N9307738</b>
<b>Contract Lab Program Modification Set Includes: (1 bottle of each)</b>			<b>N9307103</b>
2% HNO <sub>3</sub> /5% HCl	10 mg/L: Ba, Be, Ce, Co, In, Li, Mg, Pb, Rh, Tl, U, Y	125 mL	<b>N9303843</b>
2% HNO <sub>3</sub> /tr Tartaric Acid	20 mg/L: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn	125 mL	<b>N9303816</b>
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	<b>N9301721</b>
5% HNO <sub>3</sub> /tr Tartaric Acid	500 mg/L: Ca, K, Mg, Na 20 mg/L: Al, Ba 10 mg/L: Fe 6 mg/L: Sb 5 mg/L: Co, V 4 mg/L: Ni 2.5 mg/L: Cu 2 mg/L: Zn 1.5 mg/L: Mn 1 mg/L: Ag, As, Cr, Tl 0.5 mg/L: Be, Cd, Se 0.3 mg/L: Pb	125 mL	<b>N9303819</b>
2% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	10 mg/L: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	<b>N9303821</b>
5% HNO <sub>3</sub>	10 mg/L: Hg	125 mL	<b>N9300253</b>
2% HNO <sub>3</sub>	200 mg/L: Ca, Fe, K, Mg, Na	125 mL	<b>N9303822</b>
2% HNO <sub>3</sub>	10 mg/L: Mo, Th, U	125 mL	<b>N9303823</b>
2% HNO <sub>3</sub> /tr HF	10 mg/L: Mo, Sn, Sr, Ti	125 mL	<b>N9303824</b>
5% HNO <sub>3</sub> /tr HF	21,215 mg/L: Cl 3,000 mg/L: Ca 2,500 mg/L: Fe, Na 2,000 mg/L: C 1,000 mg/L: Al, K, Mg, P, S 20 mg/L: Mo, Ti	125 mL	<b>N9303827</b>
2% HNO <sub>3</sub>	20 mg/L: Co, Cr, Cu, Mn, Ni, V 10 mg/L: As, Cd, Se, Zn 5 mg/L: Ag	125 mL	<b>N9303829</b>
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	500 mg/L: Fe 250 mg/L: Ba, Zn 100 mg/L: Co, Cr, Cu, Mn, Ni, Sb, V 50 mg/L: As, Pb 25 mg/L: Ag, Be, Cd, Se, Tl	125 mL	<b>N9303839</b>

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	250 mg/L: Ba, Cr, Cu, Zn 150 mg/L: V 125 mg/L: Ni 100 mg/L: Co, Pb, Sb 50 mg/L: As, Cd 25 mg/L: Ag, Be, Se, Tl	125 mL	<b>N9303840</b>
5% HNO <sub>3</sub>	1,000 mg/L: Al, Ca, Fe, K, Mg, Na 20 mg/L: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Se, Tl, V, Zn	125 mL	<b>N9303835</b>
H <sub>2</sub> O/tr HF	7,200 mg/L: Cl 2,000 mg/L: C 1,000 mg/L: P, S 20 mg/L: Mo, Sb, Ti	125 mL	<b>N9303836</b>
<b>Calibration Standards Set for Method 6010 Includes: (1 bottle of each)</b>			<b>N9307104</b>
5% HNO <sub>3</sub>	5,000 mg/L: Ca, K, Mg, Na	125 mL	<b>N9300218</b>
5% HNO <sub>3</sub>	400 mg/L: Ni 200 mg/L: Zn 150 mg/L: Mn 100 mg/L: Ag, Cr	125 mL	<b>N9300219</b>
5% HNO <sub>3</sub>	2,000 mg/L: Al, Ba 1,000 mg/L: Fe 500 mg/L: Co, V 250 mg/L: Cu 50 mg/L: Be	125 mL	<b>N9300220</b>
5% HNO <sub>3</sub>	100 mg/L: As, Tl 50 mg/L: Cd, Pb, Se	125 mL	<b>N9300221</b>
H <sub>2</sub> O/tr HF	10 mg/L: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	<b>N9300235</b>
2% HNO <sub>3</sub>	1,000 mg/L: Li	500 mL	<b>N9300129</b>
2% HNO <sub>3</sub>	1,000 mg/L: Sb	500 mL	<b>N9300101</b>
2% HNO <sub>3</sub>	1,000 mg/L: Sr	500 mL	<b>N9300153</b>
20% HCl	1,000 mg/L: Sn	500 mL	<b>N9300161</b>
2% HNO <sub>3</sub>	1,000 mg/L: Cr	500 mL	<b>N9300112</b>
2% HNO <sub>3</sub>	1,000 mg/L: Cu	500 mL	<b>N9300114</b>
2% HNO <sub>3</sub>	1,000 mg/L: Mn	500 mL	<b>N9300132</b>
2% HNO <sub>3</sub>	1,000 mg/L: Ni	500 mL	<b>N9300136</b>
H <sub>2</sub> O/tr HF	1,000 mg/L: Ti	500 mL	<b>N9300162</b>
2% HNO <sub>3</sub>	1,000 mg/L: V	500 mL	<b>N9300165</b>
2% HNO <sub>3</sub>	1,000 mg/L: Al	500 mL	<b>N9300100</b>
2% HNO <sub>3</sub>	1,000 mg/L: Ca	500 mL	<b>N9300108</b>
2% HNO <sub>3</sub>	1,000 mg/L: Fe	500 mL	<b>N9300126</b>
2% HNO <sub>3</sub>	1,000 mg/L: Mg	500 mL	<b>N9300131</b>
<b>Internal Standard Set for Method 6010 &amp; 200.7 Includes: (1 bottle of each)</b>			<b>N9307105</b>
2% HNO <sub>3</sub>	1,000 mg/L: Y	500 mL	<b>N9300167</b>
2% HNO <sub>3</sub>	1,000 mg/L: Sc	500 mL	<b>N9300148</b>
<b>Interference Solutions for Method 6010 Includes: (1 bottle of each)</b>			<b>N9307106</b>
2% HNO <sub>3</sub>	1,000 mg/L: Al	125 mL	<b>N9300184</b>
2% HNO <sub>3</sub>	1,000 mg/L: Ca	500 mL	<b>N9300108</b>
2% HNO <sub>3</sub>	1,000 mg/L: Mg	125 mL	<b>N9300179</b>
2% HNO <sub>3</sub>	1,000 mg/L: Fe	500 mL	<b>N9300126</b>



## Environmental Method Sets

Matrix	Contents	Volume	Part No.
2% HNO <sub>3</sub>	1,000 mg/L: K	500 mL	<b>N9300141</b>
2% HNO <sub>3</sub>	1,000 mg/L: Na	500 mL	<b>N9300152</b>
2% HNO <sub>3</sub>	1,000 mg/L: Cr	500 mL	<b>N9300112</b>
2% HNO <sub>3</sub>	1,000 mg/L: Cu	500 mL	<b>N9300114</b>
2% HNO <sub>3</sub>	1,000 mg/L: Mn	500 mL	<b>N9300132</b>
2% HNO <sub>3</sub>	1,000 mg/L: Ni	500 mL	<b>N9300136</b>
H <sub>2</sub> O/tr HF	1,000 mg/L: Ti	500 mL	<b>N9300162</b>
2% HNO <sub>3</sub>	1,000 mg/L: V	500 mL	<b>N9300165</b>
5% HNO <sub>3</sub>	5,000 mg/L: Al, Ca, Mg 2,000 mg/L: Fe	500 mL	<b>N9300226</b>
5% HNO <sub>3</sub> /tr Tart-HF	100 mg/L: Cd, Ni, Zn 60 mg/L: Sb 50 mg/L: Ba, Be, Co, Cr, Cu, Mn, V 20 mg/L: Ag 10 mg/L: As, Tl 5 mg/L: Pb, Se	125 mL	<b>N9300227</b>
5% HNO <sub>3</sub>	1,000 mg/L: Cr, Cu, Mn, Ni, Ti, V	500 mL	<b>N9300228</b>
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Al, As, B, Mo, Na, Sb, Se, Tl 10 mg/L: Ca, Fe, Mg, Si	125 mL	<b>N9300229</b>
<b>Calibration Standards for Method 200.7 Includes: (1 bottle of each)</b>			<b>N9307107</b>
5% HNO <sub>3</sub>	5,000 mg/L: Ca, K, Mg, Na	125 mL	<b>N9300218</b>
5% HNO <sub>3</sub>	400 mg/L: Ni 200 mg/L: Zn 150 mg/L: Mn 100 mg/L: Ag, Cr	125 mL	<b>N9300219</b>
5% HNO <sub>3</sub>	2,000 mg/L: Al, Ba 1,000 mg/L: Fe 500 mg/L: Co, V 250 mg/L: Cu 50 mg/L: Be	125 mL	<b>N9300220</b>
5% HNO <sub>3</sub>	100 mg/L: As, Tl 50 mg/L: Cd, Pb, Se	125 mL	<b>N9300221</b>
H <sub>2</sub> O/tr HF	10 mg/L: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	<b>N9300235</b>
2% HNO <sub>3</sub>	1,000 mg/L: Li	500 mL	<b>N9300129</b>
2% HNO <sub>3</sub>	1,000 mg/L: Sb	500 mL	<b>N9300101</b>
2% HNO <sub>3</sub>	1,000 mg/L: Sr	500 mL	<b>N9300153</b>
20% HCl	1,000 mg/L: Sn	500 mL	<b>N9300161</b>
<b>Interference Solutions for Method 200.7 Includes: (1 bottle of each)</b>			<b>N9307108</b>
2% HNO <sub>3</sub>	1,000 mg/L: Al	125 mL	<b>N9300184</b>
2% HNO <sub>3</sub>	1,000 mg/L: Ca	500 mL	<b>N9300108</b>
2% HNO <sub>3</sub>	1,000 mg/L: Mg	125 mL	<b>N9300179</b>
2% HNO <sub>3</sub>	1,000 mg/L: Fe	500 mL	<b>N9300126</b>
2% HNO <sub>3</sub>	1,000 mg/L: K	500 mL	<b>N9300141</b>
2% HNO <sub>3</sub>	1,000 mg/L: Na	500 mL	<b>N9300152</b>
5% HNO <sub>3</sub>	5,000 mg/L: Al, Ca, Mg 2,000 mg/L: Fe	500 mL	<b>N9300226</b>

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub> /tr Tart-HF	100 mg/L: Cd, Ni, Zn 60 mg/L: Sb 50 mg/L: Ba, Be, Co, Cr, Cu, Mn, V 20 mg/L: Ag 10 mg/L: As, Tl 5 mg/L: Pb, Se	125 mL	<b>N9300227</b>
<b>Environmental EPA Set 1 Includes: (1 bottle of each)</b>			<b>N9307110</b>
2% HNO <sub>3</sub>	500 mg/L: Pb 200 mg/L: Se 150 mg/L: Cd, Zn 100 mg/L: Mn 50 mg/L: Be	125 mL	<b>N9300200</b>
5% HNO <sub>3</sub>	10,000 mg/L: Fe 100 mg/L: Ba, Co, Cu, V	125 mL	<b>N9300201</b>
2% HNO <sub>3</sub> / tr HF	500 mg/L: As 100 mg/mL: Mo, Si	125 mL	<b>N9300202</b>
5% HNO <sub>3</sub>	1,000 mg/L: Ca 400 mg/L: K 200 mg/L: Al, Na 20 mg/L: Cr, Ni	125 mL	<b>N9300203</b>
5% HNO <sub>3</sub> / tr Tart-HF	1,000 mg/L: Mg 200 mg/L: Sb, Tl 100 mg/L: B 50 mg/L: Ag	125 mL	<b>N9300204</b>
5% HNO <sub>3</sub>	20,000 mg/L: K 1,000 mg/L: As, Pb, Tl 500 mg/L: Se 300 mg/L: Ag, Ba, Cd, Co, Cr, Cu, Ni, V, Zn 200 mg/L: Mn 100 mg/L: Be	125 mL	<b>N9300205</b>
5% HNO <sub>3</sub>	100 mg/L: Hg	125 mL	<b>N9300223</b>
5% HNO <sub>3</sub>	6,000 mg/L: Ca 5,000 mg/L: Fe 3,000 mg/L: Mg 1,200 mg/L: Al 1,000 mg/L: Na	125 mL	<b>N9300208</b>
H <sub>2</sub> O/tr HNO <sub>3</sub> /0.6% Tartaric Acid	1,000 mg/L: Sb	125 mL	<b>N9300207</b>
5% HNO <sub>3</sub>	ASTM® Type I Water	500 mL	
5% HCl	ASTM® Type I Water	500 mL	
<b>Environmental EPA Set 2 Includes: (1 bottle of each)</b>			<b>N9307109</b>
2% HNO <sub>3</sub>	500 mg/L: Pb 200 mg/L: Se 150 mg/L: Cd, Zn 100 mg/L: Mn 50 mg/L: Be	125 mL	<b>N9300200</b>
5% HNO <sub>3</sub>	10,000 mg/L: Fe 100 mg/L: Ba, Co, Cu, V	125 mL	<b>N9300201</b>
2% HNO <sub>3</sub> /tr HF	500 mg/L: As 100 mg/L: Mo, Si	125 mL	<b>N9300202</b>
5% HNO <sub>3</sub>	1,000 mg/L: Ca 400 mg/L: K 200 mg/L: Al, Na 20 mg/L: Cr, Ni	125 mL	<b>N9300203</b>
5% HNO <sub>3</sub> /tr Tart-HF	1,000 mg/L Mg 200 mg/L: Sb, Tl 100 mg/L: B 50 mg/L: Ag	125 mL	<b>N9300204</b>

## Environmental Method Sets

Matrix	Contents	Volume	Part No.
5% HNO <sub>3</sub>	20,000 mg/L: K 1,000 mg/L: As, Pb, Tl 500 mg/L: Se 300 mg/L: Ag, Ba, Cd, Co, Cr, Cu, Ni, V, Zn 200 mg/L: Mn 100 mg/L: Be	125 mL	<b>N9300205</b>
5% HNO <sub>3</sub>	6,000 mg/L: Ca 5,000 mg/L: Fe 3,000 mg/L: Mg 1,200 mg/L: Al 1,000 mg/L: Na	125 mL	<b>N9300208</b>
H <sub>2</sub> O/tr HNO <sub>3</sub> /0.6% Tartaric Acid	1,000 mg/L: Sb	125 mL	<b>N9300207</b>
5% HNO <sub>3</sub>	ASTM® Type I Water	500 mL	
5% HCl	ASTM® Type I Water	500 mL	

Toxicity Characteristic Leachate  
Procedure (TCLP) Standard

Matrix	Contents	Volume	Part No.
<b>TCLP Standard 1</b>			
2% HNO <sub>3</sub>	500 mg/L: Ba 25 mg/L: Ag, As, Cr, Pb 100 mg/L: Hg* 5 mg/L: Cd, Se	500 mL	<b>N9300241</b>

\*Supplied in separate bottle.

## Performance Verification Standards

Matrix	Contents	Volume	Part No.
<b>Methanol Blank Solution</b>			
1% Semiconductor Grade		125 mL	<b>N8125037</b>
<b>Chromium in Methanol Solution</b>			
1% Semicon- ductor Grade Methanol	10 mg/L: Cr	125 mL	<b>N8125038</b>
<b>Selenium Solution</b>			
5% HNO <sub>3</sub>	10 mg/L: Se	250 mL	<b>N8125039</b>
<b>NexION 300Q Solution Kit – Non-Cell Includes: (items listed below)</b>			
	1 x 250 mL NexION Wash Solution		<b>N8145050</b>
	1 X 500 mL NexION Setup Solution		<b>N8145051</b>
	1 X 500 mL NexION 300Q Non-cell Stability Solution		<b>N8145053</b>
	1 X 100 mL NexION Standard/DRC Mode Detection Limit Blank Solution		<b>N8145055</b>
	1 x 100 mL NexION Dual Detector Mode Detection Limit Solution		<b>N8145056</b>
	1 x 100 mL NexION Dual Detector Solution		<b>N8145059</b>
<b>NexION 300 X/D/S Solution Kit – Cell Instruments Includes: (items listed below)</b>			
	1 x 250 mL NexION Wash Solution		<b>N8145050</b>
	1 X 500 mL NexION Setup Solution		<b>N8145051</b>
	1 x 250 mL NexION KED Setup Solution		<b>N8145052</b>
	1 x 500 mL NexION 300X/D/S Cell Stability Solution		<b>N8145054</b>

Matrix	Contents	Volume	Part No.
	NexION Standard/DRC Mode Detection Limit Blank Solution	100 mL	<b>N8145055</b>
	NexION Standard/DRC Mode Detection Limit Solution	100 mL	<b>N8145056</b>
	NexION KED Mode Detection Limit Blank Solution	100 mL	<b>N8145057</b>
	NexION KED Mode Detection Limit Solution	100 mL	<b>N8145058</b>
	NexION Dual Detector Solution	100 mL	<b>N8145059</b>

**NexION Setup Solution**

1% HNO <sub>3</sub>	1 µg/L: Be, Ce, Fe, In, Li, Mg, Pb, U	500 mL	<b>N8145051</b>
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**NexION KED Setup Solution**

1% HCl	10 µg/L: Co 1 µg/L: Ce	250 mL	<b>N8145052</b>
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**NexION 300Q Non-cell Stability Solution**

1% HNO <sub>3</sub>	1 µg/L: Cd, Cu, Mg, Pb	500 mL	<b>N8145053</b>
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**NexION 300X/D/S Cell Stability Solution**

1% HNO <sub>3</sub>	10 µg/L: Co, Cu, Se 1 µg/L: Cd, Cr, Fe, In, Mg, Pb	500 mL	<b>N8145054</b>
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**NexION Standard/DRC Mode Detection Limit Blank Solution**

0.5% HNO <sub>3</sub>		100 mL	<b>N8145055</b>
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**NexION Standard/DRC Mode Detection Limit Solution**

0.5% HNO <sub>3</sub>	1 µg/L: Be, Ca, Co, Fe, In, U	100 mL	<b>N8145056</b>
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**NexION KED Mode Detection Limit Blank Solution**

1% HCl		100 mL	<b>N8145057</b>
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**NexION KED Mode Detection Limit Solution**

1% HCl	10 µg/L: V, As, Se	100 mL	<b>N8145058</b>
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**NexION Dual Detector Solution**

2% HNO <sub>3</sub>	50 µg/L: Al, Ba, Ce, Co, In, Li, Mg, Mn, Ni, Pb, Tb, U, Zn	100 mL	<b>N8145059</b>
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**NexION AFT Single-Element Solution**

2% HNO <sub>3</sub>	2 µg/L: Fe	100 mL	<b>N8145060</b>
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**NexION AFT Multi-Element Solution**

2% HNO <sub>3</sub>	2 µg/L: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	100 mL	<b>N8145061</b>
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## USP Elemental Impurities Kit

Matrix	Contents	Volume	Part No.
<b>Includes: 1 Bottle Each</b>			<b>N9303957</b>
Solution 1 5% HNO <sub>3</sub>	2,500 mg/kg: Cu, Mn 250 mg/kg: Cr, Mo, Ni, V 15 mg/kg: As, Hg 10 mg/kg: Pb 5 mg/kg: Cd	125 mL	
Solution 2 15% HCl	100 mg/kg: Ir, Os, Pd, Pt, Rh, Ru	125 mL	



## Wear Metal Metallo-Organic Standards

### Features and Benefits

- Metallo-organic metals in hydrocarbon oil
- Accuracy ensured by Quality Testing with NIST® Standard Reference Materials when available
- Certificate of Analysis supplied with each standard

### Single-Element, Metallo-Organic Standards

Matrix: Hydrocarbon Oil

Element Name	Symbol	Size	Part No.
Aluminum 1000 µg/g	Al	50 g	N9308200
Antimony 1000 µg/g	Sb	50 g	N9308201
Arsenic 1000 µg/g	As	50 g	N9308202
Barium 1000 µg/g	Ba	50 g	N9308203
Beryllium 1000 µg/g	Be	50 g	N9308204
Bismuth 1000 µg/g	Bi	50 g	N9308205
Boron 1000 µg/g	B	50 g	N9308206
Cadmium 1000 µg/g	Cd	50 g	N9308207
Calcium 1000 µg/g	Ca	50 g	N9308208
Calcium 5000 µg/g	Ca	50 g	N9308322
Chromium 1000 µg/g	Cr	50 g	N9308209
Cobalt 1000 µg/g	Co	50 g	N9308210
Copper 1000 µg/g	Cu	50 g	N9308211
Iron 1000 µg/g	Fe	50 g	N9308212
Lanthanum 1000 µg/g	La	50 g	N9308213
Lead 1000 µg/g	Pb	50 g	N9308214
Lithium 1000 µg/g	Li	50 g	N9308215
Magnesium 1000 µg/g	Mg	50 g	N9308216
Manganese 1000 µg/g	Mn	50 g	N9308217
Mercury 1000 µg/g	Hg	50 g	N9308218
Molybdenum 1000 µg/g	Mo	50 g	N9308219
Nickel 1000 µg/g	Ni	50 g	N9308220
Phosphorus 1000 µg/g	P	50 g	N9308221
Potassium 1000 µg/g	K	50 g	N9308222

Element Name	Symbol	Size	Part No.
Scandium 1000 µg/g	Sc	10 g	N9308255
Scandium 1000 µg/g	Sc	50 g	N9308223
Selenium 1000 µg/g	Se	50 g	N9308224
Silicon 1000 µg/g	Si	50 g	N9308225
Silver 1000 µg/g	Ag	50 g	N9308226
Sodium 1000 µg/g	Na	50 g	N9308227
Strontium 1000 µg/g	Sr	50 g	N9308228
Sulfur 10 µg/g	S	50 g	N9308229
Sulfur 100 µg/g	S	50 g	N9308230
Sulfur 1000 µg/g	S	50 g	N9308231
Thallium 1000 µg/g	Tl	50 g	N9308232
Tin 1000 µg/g	Sn	50 g	N9308233
Titanium 1000 µg/g	Ti	50 g	N9308234
Vanadium 1000 µg/g	V	50 g	N9308235
Yttrium 1000 µg/g	Y	50 g	N9308236
Yttrium 5000 µg/g	Y	50 g	N9308323
Zinc 1000 µg/g	Zn	50 g	N9308237
Zirconium 1000 µg/g	Zr	50 g	N9308238

### V-21 Wear Metal Standards

Includes: Al, Ba, B, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, Si, Ag, Na, Sn, Ti, V, Zn

Matrix: Hydrocarbon Oil

Description	Size	Part No.
V-21 Wear Metals Standards 10 µg/g	100 g	N9308300
V-21 Wear Metals Standards 10 µg/g	200 g	N9308301
V-21 Wear Metals Standards 10 µg/g	400 g	N9308324
V-21 Wear Metals Standards 30 µg/g	100 g	N9308302
V-21 Wear Metals Standards 30 µg/g	200 g	N9308303
V-21 Wear Metals Standards 30 µg/g	400 g	N9308325
V-21 Wear Metals Standards 50 µg/g	100 g	N9308304
V-21 Wear Metals Standards 50 µg/g	200 g	N9308305
V-21 Wear Metals Standards 50 µg/g	400 g	N9308326
V-21 Wear Metals Standards 100 µg/g	100 g	N9308306
V-21 Wear Metals Standards 100 µg/g	200 g	N9308307
V-21 Wear Metals Standards 100 µg/g	400 g	N9308327
V-21 Wear Metals Standards 300 µg/g	100 g	N9308308
V-21 Wear Metals Standards 300 µg/g	200 g	N9308309
V-21 Wear Metals Standards 300 µg/g	400 g	N9308328
V-21 Wear Metals Standards 500 µg/g	100 g	N9308310
V-21 Wear Metals Standards 500 µg/g	200 g	N9308311
V-21 Wear Metals Standards 500 µg/g	400 g	N9308329
V-21 Wear Metals Standards 900 µg/g	100 g	N9308312
V-21 Wear Metals Standards 900 µg/g	200 g	N9308313
V-21 Wear Metals Standards 900 µg/g	400 g	N9308330

### V-23 Wear Metal Standards

Includes: Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn

Matrix: Hydrocarbon Oil

Description	Size	Part No.
V-23 Wear Metals Standards 10 µg/g	100 g	<b>N9308239</b>
V-23 Wear Metals Standards 10 µg/g	200 g	<b>N0776109</b>
V-23 Wear Metals Standards 10 µg/g	400 g	<b>N9308315</b>
V-23 Wear Metals Standards 30 µg/g	100 g	<b>N9308241</b>
V-23 Wear Metals Standards 30 µg/g	200 g	<b>N9308242</b>
V-23 Wear Metals Standards 30 µg/g	400 g	<b>N9308316</b>
V-23 Wear Metals Standards 50 µg/g	100 g	<b>N9308243</b>
V-23 Wear Metals Standards 50 µg/g	200 g	<b>N0776104</b>
V-23 Wear Metals Standards 50 µg/g	400 g	<b>N9308317</b>
V-23 Wear Metals Standards 100 µg/g	100 g	<b>N9308245</b>
V-23 Wear Metals Standards 100 µg/g	200 g	<b>N0776105</b>
V-23 Wear Metals Standards 100 µg/g	400 g	<b>N9308318</b>
V-23 Wear Metals Standards 300 µg/g	100 g	<b>N9308247</b>
V-23 Wear Metals Standards 300 µg/g	200 g	<b>N9308248</b>
V-23 Wear Metals Standards 300 µg/g	400 g	<b>N9308319</b>
V-23 Wear Metals Standards 500 µg/g	100 g	<b>N9308249</b>
V-23 Wear Metals Standards 500 µg/g	200 g	<b>N0776106</b>
V-23 Wear Metals Standards 500 µg/g	400 g	<b>N9308320</b>
V-23 Wear Metals Standards 900 µg/g	100 g	<b>N9308251</b>
V-23 Wear Metals Standards 900 µg/g	200 g	<b>N9308252</b>
V-23 Wear Metals Standards 900 µg/g	400 g	<b>N9308321</b>

### Internal Standards

Description	Matrix	Size	Part No.
Cobalt (Co) Internal Standard, 6%	Mineral Spirits	200 g	<b>N0776107</b>
Cobalt (Co) Internal Standard, 6%	Mineral Spirits	400 g	<b>N9308334</b>
Cobalt (Co) Internal Standard, 5000 µg/g	Hydrocarbon Oil	50 g	<b>N9308258</b>

### Metal Additive Standards

Description	Matrix	Size	Part No.
Metal Additive Standard 4: Ca @ 5000 µg/g; Mg, P, Zn @ 1600 µg/g	Hydrocarbon Oil	100 g	<b>N9308259</b>
Metal Additive Standard 4: Ca @ 5000 µg/g; Mg, P, Zn @ 1600 µg/g	Hydrocarbon Oil	200 g	<b>N0776108</b>
Metal Additive Standard 4: Ca @ 5000 µg/g; Mg, P, Zn @ 1600 µg/g	Hydrocarbon Oil	400 g	<b>N9308333</b>

### Matrix Oils and Solvents

Description	Matrix	Volume	Part No.
75 cSt Hydrocarbon Oil	75 cSt Oil	500 mL	<b>N0776103</b>
75 cSt Hydrocarbon Oil	75 cSt Oil	1 Gal.	<b>N9308262</b>
20 cSt Mineral oil (low sulfur)	20 cSt Mineral Oil	500 mL	<b>N9308263</b>
20 cSt Mineral oil (low sulfur)	20 cSt Mineral Oil	½ Gal.	<b>N9308264</b>

### V-Solv

V-Solv™ ICP Solvent is a proprietary solvent that is used for diluting oil and other organic liquids for analysis by ICP and ICP-MS. Use V-Solv™ as a matrix blank and as a diluent for your calibration standards and samples for outstanding nebulization characteristics.



Description	Matrix	Volume	Part No.
V-Solv™ ICP Solvent	V-Solv™	1 Gal.	<b>N9308265</b>

### Fuel Dilution Oils

Description	Matrix	Volume	Part No.
Blank for Diesel Fuel Dilution Standards	75 cSt Hydrocarbon Oil	100 mL	<b>N9308266</b>
2% (v/v) Devolatilized Diesel Fuel in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308267</b>
4% (v/v) Devolatilized Diesel Fuel in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308297</b>
5% (v/v) Devolatilized Diesel Fuel in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308268</b>
10% (v/v) Devolatilized Diesel Fuel in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308269</b>
Blank for Gas Fuel Dilution Standards	75 cSt Hydrocarbon Oil	100 mL	<b>N9308270</b>
2% (v/v) Devolatilized Gasoline in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308271</b>
5% (v/v) Devolatilized Gasoline in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308272</b>
10% (v/v) Devolatilized Gasoline in Hydrocarbon Oil	75 cSt Hydrocarbon Oil	100 mL	<b>N9308273</b>
Blank	20 cSt Hydrocarbon Oil	100 mL	<b>N9308274</b>
Ethylene Glycol & Propylene Glycol – conc. 100 µg/g	20 cSt Hydrocarbon Oil	100 mL	<b>N9308275</b>
Ethylene Glycol & Propylene Glycol – conc. 500 µg/g	20 cSt Hydrocarbon Oil	100 mL	<b>N9308276</b>
Ethylene Glycol & Propylene Glycol – conc. 1000 µg/g	20 cSt Hydrocarbon Oil	100 mL	<b>N9308277</b>

### Karl Fischer Standards

Nominal Water Concentration (%)	Matrix	Volume	Part No.
Karl Fischer Water in Oil, Blank	10W30 Motor Oil	100 mL	<b>N9308278</b>
Karl Fischer Water in Oil, 0.1%	10W30 Motor Oil	100 mL	<b>N9308279</b>
Karl Fischer Water in Oil, 0.5%	10W30 Motor Oil	100 mL	<b>N9308280</b>
Karl Fischer Water in Oil, 1.0%	10W30 Motor Oil	100 mL	<b>N9308281</b>

### Soot Content Standards

Nominal Soot Content Range (%)	Matrix	Volume	Part No.
Nominal Soot Content Range%: Blank	15W40 Diesel Oil	50 mL	<b>N9308282</b>
Nominal Soot Content Range%: 0.5-2	15W40 Diesel Oil	50 mL	<b>N9308283</b>
Nominal Soot Content Range%: 2-4	15W40 Diesel Oil	50 mL	<b>N9308284</b>
Nominal Soot Content Range%: 4-6	15W40 Diesel Oil	50 mL	<b>N9308285</b>

## Performance Testing Standards

### Performance Testing Program

Analyze a sample for up to 23 common elements and report the concentrations in µg/g (ppm). You may enter all elements or only those that you are interested in. Provides an instant response to submitted values, with convenient color-coded pass/fail indications in green (pass), yellow (borderline) and red (fail) formats via a custom-designed, easy-to-use, on-line user interface.

Description	Size	Part No.
PTP Standard	25 g	<b>N9308314</b>

### Viscosity PTP Test Standard

Designed to provide analytical laboratories with a method of monitoring their analytical performance as measured against Certified Reference Materials (CRM's). Currently, the types of instrumentation included in the program are ICP, viscosity, and particle sizing systems. This Viscosity Standard will have values reportable at 40° C and 100° C.

Description	Size	Part No.
Viscosity PTP Test Standard	50 g	<b>N9308540</b>

### Biodiesel Standards

Description	Matrix	Volume	Part No.
Biodiesel Blank	B100 Biodiesel	100 mL	<b>N9308286</b>
Biodiesel Blank	B100 Biodiesel	500 mL	<b>N9308287</b>
Sulfur @ 20 µg/g in Biodiesel	B100 Biodiesel	100 mL	<b>N9308288</b>
Metals in Biodiesel - Ca, K, Mg, Na, P @ 20 µg/g	B100 Biodiesel	100 g	<b>N9308289</b>
100% #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308290</b>
2% (v/v) Biodiesel in #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308291</b>
5% (v/v) Biodiesel in #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308292</b>
10% (v/v) Biodiesel in #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308293</b>
15% (v/v) Biodiesel in #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308294</b>
20% (v/v) Biodiesel in #2 Diesel Fuel	#2 Diesel Fuel	20 mL	<b>N9308295</b>
100% (v/v) Biodiesel	B100 Biodiesel	20 mL	<b>N9308296</b>

### Viscosity Reference Standards

Description	Matrix	Size	Part No.
Viscosity Standard 30	Hydrocarbon Oil	1 Gallon	<b>N5316025</b>
Viscosity Standard 110	Hydrocarbon Oil	1 Gallon	<b>N5316024</b>
Viscosity Standard 130	Hydrocarbon Oil	1 Gallon	<b>N5316026</b>



# CLEAN, RELIABLE, TEMPERATURE CONTROLLED FLUID

## POLYSCIENCE® WHISPERCOOL™ REFRIGERATED CHILLER

The PolyScience® WhisperCool™ Refrigerated Chiller is designed to deliver quiet and reliable performance over a broad range of operating temperatures and conditions. Extremely dependable and energy efficient, it features a -10 to 40 °C operating temperature range, built-in process and equipment protection, and highly intuitive user interface. This chiller is designed for use on both ICP-OES and ICP-MS instruments.

### Key Advantages

- 50% quieter operation than comparable models
- 2900 watts (9889 BTU/hour) cooling capacity
- Built-in temperature, pressure, and flow rate alarms

### Chiller Coolant Mix

Non-glycol coolant, which is made up of five half gallon bottles of distilled water and includes an additive to control black algae and other resistant strains.

Description	Part No.
Chiller Coolant Mix	<b>N0776099</b>

Part No.	N0772046	N0772045
Electrical Requirements	208-230 V, 60 Hz, 12.2 A	240 V, 50 Hz, 12.2 A
Operating Temperature Range	-10 to 40 °C	
Temperature Stability	±0.1 °C (±1.8 °F)	
Cooling Capacity at 20 °C	2900 Watts (9889 BTU/hr)	
at 10 °C	1925 Watts (6574 BTU/hr)	
at 0 °C	1000 Watts (3410 BTU/hr)	
Compressor	1.0 HP	
Reservoir Capacity	4.2 L	
Pump Type	Turbine	
Maximum Pump Pressure	90 PSI	
Maximum Pump Flow	13.2 LPM	
Replacement Air Filter	<b>N0777095</b> (Air Filter with Frame, 13x14")	
Chiller Coolant Mix	<b>N0776099</b> (Five Half-gallon Bottles)	

### Coolant Fluid

1 liter bottle. It is essential that this chiller coolant be used with ELAN 9000/6xX00/DRC/NexION series instruments. Also suitable for organics chillers.

Description	Part No.
ELAN Coolant Fluid	<b>WE016558</b>

### Heat Exchanger System

Cooling systems for the ELAN 9000/DRC II/e/NexION systems. Air cooled recirculator without refrigeration. Not to be placed in areas with temperatures above 30 °C (86 °F). Requires the use of Coolant Fluid (WE016558).

ICP-MS Power Requirement	Part No.
120 V, 60 Hz	<b>N8122248</b>
220/250 V, 50/60 Hz	<b>N8122247</b>

### Chillers/Recirculating Water Cooling Systems

ICP Model	Power Requirement	Operating Temp.	Flow Rate	Part No.
Optima/ELAN/NexION	208 – 230 V, 60 Hz, 8 A	-15° to 40 °C	60 psi: 4.3 gpm/16.3 Lpm	<b>N0772046</b>
Optima/ELAN/NexION	240 V, 50 Hz, 8.5 A	-15° to 40 °C	60 psi: 4.3 gpm/16.3 Lpm	<b>N0772045</b>

## LINE CONDITIONERS AND UPS SYSTEMS

Damaged or compromised components, disrupted processes, lack of reliability – they all add up to frustration, broken schedules and costly downtime. The problem is caused by a host of power disturbances – some visible and many invisible – that threaten your equipment’s operation every year. Power “disturbances” are simply those large and small variations in the quality of the electric

power you use day in and day out. Some come from your local utility company, but most are created within your own facility as a result of the distribution and use of electrical power. These variations include high-energy voltage transients, sags and swells, electrical noise, and common mode voltage, as well as the power outages everyone witnesses when the lights go out.

### Line Conditioners

Instrument Model	Description	Frequency (Hz)	Part No.
<b>Atomic Absorption</b>			
AAnalyst™ 100/200/300/400	520 VA Line Conditioner	60	<b>N9307504</b>
AAnalyst 100/200/300/400	750 VA Line Conditioner	50	<b>N9307521</b>
AAnalyst 600/800	5.8 kVA Line Conditioner	60	<b>N9307511</b>
AAnalyst 600/800	6.0 kVA Line Conditioner	50	<b>N9307523</b>
AAnalyst 700/PinAAcle 900 H	3.8 kVA Line Conditioner	60	<b>N9307509</b>
AAnalyst 700/PinAAcle 900 H	3.6 kVA Line Conditioner	50	<b>N9307522</b>
PinAAcle 900T/Z	5.8 kVA Line Conditioner	60	<b>N9307760</b>
PinAAcle 900T/Z	6.0 kVA Line Conditioner	50	<b>N9307523</b>
PinAAcle 900F	720 VA Line Conditioner	60	<b>N9307515</b>
PinAAcle 900F	750 VA Line Conditioner	50	<b>N9307521</b>
<b>ICP-OES</b>			
Optima 2x00/4x00/5x00/7x00/8x00	3.8 kVA Line Conditioner	60	<b>N9307512</b>
Optima 2x00/4x00/5x00/7x00/8x00	3.6 kVA Line Conditioner	50	<b>N9307522</b>
<b>ICP-MS</b>			
ELAN® 6x00/9000 Controller Side	3.8 kVA Line Conditioner	60	<b>N9307519</b>
ELAN 6x00/9000 Controller Side	3.6 kVA Line Conditioner	50	<b>N9307522</b>
ELAN 6x00/9000 RF Generator Side	5.8 kVA Line Conditioner	60	<b>N9307511</b>
ELAN 6x00/9000 RF Generator Side	6.0 kVA Line Conditioner	50	<b>N9307523</b>
NexION®	5.0 kVA Line Conditioner	60	<b>N0777690</b>
NexION	6.0 kVA Line Conditioner	50	<b>N9307523</b>



### On-Line Conditioned Uninterruptible Power Supply Systems

With the Security Plus Series, you get much more protection and a higher comfort level than you get with most other UPS systems. The Security Plus Series also provides complete power conditioning and, because the Security Plus Series features on-line inverter design, added peace of mind. And regardless of input fluctuations, the Security Plus Series insures that the output remains continuous and regulated.

Instrument Model	Description	Frequency (Hz)	Part No.
<b>UPS Systems</b>			
PinAAcle 900F/AAnalyst 100/200/300/400	800 VA	60	<b>N0777681</b>
PinAAcle 900F/AAnalyst 100/200/300/400	800 VA	50	<b>N0777689</b>
PinAAcle 900H/AAnalyst 700/Optima	5.2 kVA	50/60	<b>N0777511</b>
PinAAcle 900H/AAnalyst 700	8.0 kVA	50/60	<b>N0777682</b>
PinAAcle 900T/Z/AAnalyst 600/800/ELAN/NexION	10 kVA	50/60	<b>N0777613</b>
PinAAcle 900T/Z/AAnalyst 600/800/ELAN	12 kVA	50/60	<b>N0777719</b>
<b>Probes</b>			
Power Probe	0-250 V Input	50/60	<b>N3151391</b>



# TESTED AND APPROVED

## Acetylene Regulator

For AA labs, this regulator includes an adapter so that the pressure regulator can be connected to cylinders requiring either CGA 300 or CGA 510 fittings and a connector for attaching the fuel hose assembly supplied with the instrument. Includes hose assembly.



Description	Part No.
Max Inlet Pressure: 400 psig	03030106

## Air Regulator

For AA labs. Regulator to cylinder CGA no. 590. Includes hose assembly.



Description	Part No.
Max Inlet Pressure: 3,000 psig	03030264

## Nitrous Oxide Regulator

For use in AA labs with gas cylinders with a CGA 326 connection. Provides pressure control from 350–520 kPa (50–75 psig) and contains an integral thermostatted heater to prevent freezing of the regulator diaphragm.



Description	Part No.
115 V	03030204
220 V	03030349

## Argon/Nitrogen Regulator

For AA and ICP, this regulator can be used with argon or nitrogen and has a CGA 580 fitting. A color-coded hose with 1/4" SWAGELOK® fittings is also included.



Description	Part No.
Max Inlet Pressure: 3,000 psig	03030284

## Matheson Flashback Arrestor

Because acetylene is an extremely unstable gas, users can experience flashbacks at the instrument burner head. The flash arrestor prevents these potentially dangerous flashbacks from reaching the regulator or cylinder.



Description	Part No.
Acetylene Max Operating Pressure: 15 psig	N9300068

## Hose Assemblies

Hose assemblies for connecting fuel, air and nitrous oxide from supply to instrument.



Description	Part No.
Acetylene, Red Neoprene, 3.7 m (12 ft)	00570559
Air/Argon, Black, 3.7 m (12 ft)	00570567
Nitrous Oxide, Blue, 3.7 m (12 ft)	00470258

## Blower and Vent Assembly for AA and ICP

A venting system is required to remove fumes and vapors from the torch of ICP emission spectrometers. A vent is recommended for use over the power supply unit of most ICP spectrometers for removal of dissipated heat. Use exhaust venting to:

- Protect lab personnel from toxic vapors
- Protect your instrument from corrosive vapors
- Improve stability of the ICP torch



Includes Exhaust Hood, Adapter and Blower. Does not include ducting. PerkinElmer service engineers are not permitted to install this unit.

Description	Part No.
110 V	03030447
230 V	03030448



## Parker Balston® 73-099 AA Gas Purifier

For AA labs, this wall-mounted system designed to purify the compressed air and acetylene gases used in atomic absorption. It consists of two independent filtration systems, one for compressed air and one for acetylene. The unit also has a flashback arrestor on the acetylene line and a pressure regulator on the compressed air line.



The 2-stage air filtration assembly consists of a Balston Grade DX coalescing filter and a Balston Grade BX coalescing filter. Together these filters remove oil, water and particulate contamination (99.99% at 0.01 micron) from the compressed air supply.

Description	Part No.
Parker Balston 73-099 AA Gas Purifier	<b>N9301398</b>

## Parker Balston® Replacement Filters

Description	Cartridges Part No.	Each (\$)	Seal Sets Part No.
1st Air Filter	<b>N9301710</b>	20	<b>N9301712</b>
2nd Air Filter	<b>N9301711</b>	20	<b>N9301712</b>
Acetylene Filter	<b>N9301714</b>	16	<b>N9301715</b>

## Balston® 95A Acetylene Filter

For your AA lab, this filter includes a Balston Grade BQ filter cartridge to remove liquid and solid contaminants from the acetylene supply to 99.99% at 0.01 micron. Max working pressure: 15 psig.



Description	Part No.
Acetylene Filter	<b>N9301399</b>
Replacement Acetylene Filter Cartridge	<b>N9301714</b>

## Balston® Air Filter Assembly Type A-82

For AA and ICP labs, this filter is specifically designed to remove water, oil and dirt particles down to 0.6 microns in diameter from compressed air lines. It is recommended for use with oil-type compressors and for removing moisture and dirt particles from air supplied by oil-less compressors.



Description	Part No.
Air Filter Assembly	<b>N0580531</b>
Replacement Filter Cartridge Element	<b>N0582251</b>

## Air Dryer Filter Assembly with R250 Regulator

To filter compressed air for AA and ICP instrumentation. Replaces 00470652 and N0770198.



Description	Part No.
Air Dryer Filter Assembly with R250 Regulator	<b>N0775325</b>
Replacement Filter Element	<b>N9306067</b>
Float Assembly	<b>N0777710</b>

## Wilkerson® Air Dryer Filter Accessories\*

Description	Pre-Filter Part No.	Each (\$)	Final Filter Part No.
Filter Elements	<b>09923464</b>	16	<b>09907120</b>
Filter Bowls	<b>N9302199</b>	43	<b>N9302199</b>
Bowl O-Ring Kit, Final Filter	<b>N9302197</b>	48	<b>N9301715</b>

\* For Wilkerson Filter PerkinElmer (00470652)

## ICP Filter Replacement Parts

ICP Model	Filter Element	Part No.
8x00 Side	Filter in Front of Fan	<b>09995098</b>
2x00/3x00/4x00/5x00/7x00	For Pre-Final	<b>09907122</b>
2x00/3x00/4x00/5x00/7x00	For Final Filter	<b>09923464</b>
2x00/3x00/4x00/5x00/7x00 /8x00	Water Filter	<b>09904845</b>
2x00/3x00/4x00/5x00/7x00 /8x00	Cartridge for Water Filter	<b>09904846</b>
2x00/4x00/5x00/7x00/8x00	Air Filter for the RF Generator Inlet	<b>N0775220</b>
3x00	Air Filter for the RF Generator Inlet	<b>02509115</b>

## Instrument Filters

Description	Part No.
For AAAnalyst 100/300/PinAAcle 900	<b>09995097</b>
For AAAnalyst 200/400/600/700/800	<b>B0501696</b>
For AAAnalyst 600/700/800 (80x80)	<b>B0502706</b>
For Optima 2x00/3x00/4x00/5x00/7x00/8x00	<b>09995098</b>
For NexION (left)	<b>W1036712</b>
For NexION (back right)	<b>W1036713</b>

## Polyscience Replacement Air Filters

Description	Part No.
Polyscience Air Filter	<b>N0777359</b>
Polyscience Air Filter with Frame	<b>N0777095</b>
Heat Exchanger Air Filter	<b>N0777360</b>

## SMS 100 Consumables and Supplies

Description	Part No.
Nickel Boats (Qty. 42)	N9309017
Quartz Combustion Boats (Qty. 10)	N9309032
Replacement Carbon 500 g	N9309035
Catalyst Tube (Packed)	N9309036
Autosampler Boat Shuttle	N9309019
Exhaust Tubing Assembly	N9309006
Amalgamator Tube	N9309007
Mercury Lamp	N9309010
Hg Vapor Trap Kit with Carbon Material	N9309011
Nafion® Drying Tube	N9309021
Sample Substrate 250 mL	N9309103
Oxygen Two Stage Regulator	N9309004
Oxygen, Nitrogen, Argon Supply	N9309009
Autosampler Boat Shuttle	N9309019
UV Windows ½ d x ⅙ t 10–20 w (Qty. 2)	N9309024
O-Ring ⅙ i.d. x ⅙ w Viton	N9309025
O-Ring Amalgamator ¼ i.d., ⅜ o.d. Viton	N9309026
O-Ring Injector ⅝ i.d., o.d. ¾	N9309027
O-Ring Catalyst Front Viton	N9309028
O-Ring .414D Catalyst Rear	N9309030
O-Ring Kit for SMS 100	N9309029
High Sensitivity Absorption Cell 5 inch	N9309033
Low Sensitivity Absorption Cell 1 inch	N9309034

## Spares Kits

Description	Qty	Part No.
<b>Basic Spares Kit</b>		N9309109
Kit Includes:		
Amalgamator Tube	1	N9309007
Mercury Source Lamp	1	N9309010
Nafion® Drying Tube	1	N9309021
O-Ring Kit	1	N9309029

Description	Qty	Part No.
<b>Extended Spares Parts Kit</b>		N9309110
Kit Includes:		
Amalgamator Tube	2	N9309007
Sample Gas Tubing Assembly	1	N9309008
Mercury Source Lamp	1	N9309010
Injector Fork Assembly	1	N9309012
CVAAS Tubing Kit	1	N9309013
Amalgamator Heater Coil	1	N9309066
6 g Krytox® Tube Grease	1	N9309108
Nafion® Drying Tube	1	N9309021
Quartz Windows	6	N9309024
O-Ring Kits	2	N9309029
Window End Caps	8	N9309031
5 inch Optical Cells	2	N9309033
1 inch Optical Cell	1	N9309034



## PerkinElmer SMS 100 Mercury Analyzer

The SMS 100 is a dedicated mercury analyzer for the determination of total mercury in solid and liquid samples using the principle of thermal decomposition, amalgamation and atomic absorption described in U.S. EPA Method 7473.

The SMS 100 uses a decomposition furnace to release mercury vapor instead of the chemical reduction step used in traditional liquid-based analyzers. Both solid and liquid matrices can be loaded onto the instrument's autosampler and analyzed without acid digestion or sample preparation prior to analysis. Some of the many sample matrices applicable to SMS 100 technology include sludges, sediments, soils, wastewaters, effluents, coal, fly ash, minerals, ores, fertilizers, various foodstuffs, blood, urine and hair.



Amalgamator Tube



Catalyst Tube



Nickel Boat



## Sample Preparation Blocks

The SPB series of block digestion systems offers the latest in graphite block technology in many different packages. Graphite blocks are Teflon® coated to resist aggressive corrosive attack for guaranteed long life in harsh laboratory environments.

Better laboratory practices demand modern techniques in sample preparation. In the past, hot plates were used to digest samples where common digestion problems involve rusting, cross contamination of digestion system to sample, and poor sample temperature control. With no exposed metal components and an outer shell manufactured from Kydex plastic, the SPB blocks reduce the chances of sample contamination.

Each system is constructed with a solid, Teflon-coated, graphite block where a flat heater covers 95% of the block's base. This guarantees temperature uniformity and eliminates hot spots found in hot plates.

### Features and Benefits

- Ideal for any digestion/heating method which requires a temperature below 180 °C
- Provides uniform temperature (+/- 1.0 °C across the block)
- Delivers even sample evaporation results
- Teflon® Coated Graphite block resists aggressive, corrosive attack
- Choose from 6 different SPB blocks

Description	Capacity	Part No.
SPB 50-24, (115 V/ 230V)	24 Tubes/50 ml	<b>N9308019</b>
SPB 100-12, (115 V/ 230V)	12 Tubes/100 ml	<b>N9308010</b>
SPB 50-48, (115 V/ 230V)	48 Tubes/50 ml	<b>N9308004</b>
SPB 100-30, (115 V/ 230V)	30 Tubes/100 ml	<b>N9308012</b>
SPB 50-72, (230V)	72 Tubes/50 ml	<b>N9308005</b>
SPB 100-42, (230V)	42 Tubes/100 ml	<b>N9308014</b>



## Controllers

Our sample blocks operate with either a SPB Digital Controller or SPB Touch Controller. The user friendly SPB Digital Controller includes programmable features such as: temperature set-point to 0.1 °C, even sample heating and evaporation results, timer shutdown option, and programmable alarm for end of cycle.

The SPB Touch Controller includes all of the SPB Digital Controller features and more. Added features include: a graphical representation of the heating profile in real-time to identify the current stage of the method heating program. Safety features include the ability of the controller to monitor the heating cycle of the block to prevent run away situations. The controller allows for the SPB Probe to be calibrated to meet your SOP requirements.

The SPB Probe, used with either the Digital or Touch models, can directly monitor and control the block's heating rate via sample temperature feedback to the controller.

Description	Part No.
SPB Digital Controller	<b>N9308006</b>
SPB Touch Controller	<b>N9308007</b>



## Start Up Kits

PerkinElmer provides SPB Start Up kits containing all consumable items required to operate the system including: RackLock Digi TUBEs, disposable watch glasses, Digi FILTERs, watch glasses, 24 position RackLock rack and storage racks.

Description	Part No.
Start Up Kit for SPB 50-24	<b>N9308017</b>
Start Up Kit for SPB 100-12	<b>N9308011</b>
Start Up Kit for SPB 50-48	<b>N9308002</b>
Start Up Kit for SPB 100-30	<b>N9308013</b>
Start Up Kit for SPB 50-72	<b>N9308025</b>
Start Up Kit for SPB 100-42	<b>N9308015</b>

## Automatic Shut-Off System

Designed to shut-off SPB systems with no lab supervision. Ideal for overnight digestions and evaporations where samples require volume reductions (volume control  $\pm 2.5$  mL). Increase lab efficiency by automatically digesting samples off-hours. Select appropriate Probe for Tube use



Description	Qty	Part No.
TempSET, without Probe	1	N9308020
TempSET Probe for 50 mL Tubes	1	N9308023
TempSET Probe for 100 mL Tubes	1	N9308029
TempSET Probe Holder for 100 mL Tubes	1	N9308065

## Temperature Probes

The SPB Probe provides direct control and monitoring of actual sample temperature via a corrosion-resistant, PFA-coated temperature probe. Each probe is supplied with 5 Probe Watch Glasses and a probe holder.



Description	Qty	Part No.
SPB 6" Probe for 50 mL Tubes	1	N9308018
SPB 6" Probe for 100 mL Tubes	1	N9308009
SPB Probe Watch Glass (replacement) for 50 mL Tubes	25	N9308041
SPB Probe Watch Glass (replacement) for 100 mL Tubes	25	N9308073
SPB PROBE Holder for DigiTUBES 50 mL	1	N9308044
SPB PROBE Holder for DigiTUBES 100 mL	1	N9308045

## DigiFILTER™

The vacuum assisted DigiFILTER assembly provides a quick and easy way to filter samples prior to analysis. Increase lab productivity by filtering particulates from digested samples in a matter of seconds directly from the digestion tube. Available with a 0.45 or 1.0 micron hydrophilic Teflon® membrane.



Description	Qty	Part No.
DigiFILTER 0.45 micron for 50 mL DigiTUBES	100	N9308031
DigiFILTER 1.0 micron for 50 mL DigiTUBES	100	N9308032
Field Filtration Kit 0.45 for 50 mL DigiTUBES <sup>1</sup>	1	N9308033
DigiFILTER Manifold	1	N9308034

<sup>1</sup> Contains : 25 DigiFILTERs, 30 DigiTUBES, 1x 6 ml eyedropper bottle to dispense 2 to 3 drops of (1+1) PlasmaPURE Nitric acid, 1 storagerack, 1 Sharpie pen and 2x 60 ml plastic syringes to create a vacuum to filter samples from the collection vessel to the sample tube.

## Tubes, Caps & Watch Glasses

PerkinElmer offers 50 and 100 ml, disposable, sample digestion tubes with easy-to-read graduations. Accurate 50 or 100 ml graduation is calibrated to meet Class A specifications to allow normalization directly in the tube. RackLock design allows for easy, one-handed closure of leak-free screw cap.



Description	Qty	Part No.
<b>Tubes</b>		
DigiTUBES 50 mL with RackLock (incl./Caps)	750	N9308008
DigiTUBES 100 mL with RackLock (incl./Caps)	300	N9308016
DigiTUBES 50 mL non-RackLock (incl./Caps)	750	N9308037
DigiTUBES 100 mL non-RackLock (incl./Caps)	300	N9308066
DigiTUBES 50 mL RackLock (no Caps)	750	N9308340
Teflon Digestion Tubes 50 mL (incl./Caps)	6	N9308024

### Caps

Screw Caps, Orange, for DigiTUBES	250	N9308058
Screw Caps, Red, for DigiTUBES	250	N9308059
Screw Caps, Clear, for DigiTUBES	250	N9308060
Screw Caps, Yellow, for DigiTUBES	250	N9308056
Teflon Screw Caps for Teflon Tubes, N9308024 Replaces Blue Cap Supplied	6	N9308027

### Watch Glasses

Disposable Watch Glasses, 50 mL	1,000	N9308003
Disposable Watch Glasses, 100 mL	500	N9308030

### Racks

Rack for SPB-100-12, 100 mL	1	N9308067
Rack for SPB-100-30, 100 mL	1	N9308068
Rack for SPB-100-42, 100 mL	1	N9308069
Rack for SPB-50-24, 50 mL	1	N9308070
Rack for SPB-50-48 and SPB-50-72, 50 mL	1	N9308042

### Accessories

Fume Hood SPB 50-24/100-12/50-48/100-30	N9308000
Fume Hood SPB 50-72/100-42	N9308001
Filter for SPB Fume Hoods	N9308078
SPBVAC™ Evacuation Hood SPB 50-48/SPB 100-30	N9308021
Autosampler Fume Hood	N9308036
SPB Blower Unit (all systems)115/230V	N9308022
Vacuum Pump 20L/min 115V	N9308035
Vacuum Pump 60L/min115V	N9308063
Vacuum Pump 17L/min 230V	N9308331
Vacuum Pump 58L/min 230V	N9308332