SAMPLE PREPARATION ACCESSORIES
From Sample Processing to Laboratory Safety

www.phenomenex.com/SPacc
Phenomenex Accessories
Perfect for general lab use and sample preparation procedures. QC tested for excellence.

- Save money when buying consumables from a single vendor.
- Save time by setting up a reoccurring standing order.
- Guaranteed performance for ensured reliability.

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Your happiness is our mission. Take 45 days to try our products. If you are not happy, we’ll make it right.
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Presston™ 1000
Positive Pressure Manifold

- Pneumatic Handling
- Consistent Flow Rates
- Safe and Easy-to-Use

**Sleek, Low Profile Design**
Width: 11.8”, Depth: 15”, Height: 14.8”

**Never Lose Pressure**
Always maintain a tight seal between the manifold and 96-well plate

**Easily Load Samples**
Moveable locator plate makes sample loading and cleaning easy

**Safer Lab Environment**
Use both hands to move manifold shield, ensuring enhanced safety

**Simple to Use**
Pneumatic manifold movement reduces manual labor with more reliable extractions

**Determine Your Operating Pressure**
Conveniently monitor and maintain a consistent pressure

**Know your Step**
Simply move the “SPE Procedure Indicator” to the correct step to stay on track of your extraction.

**Upgrade your vacuum manifold to gain reproducibility and low well-to-well variation!**

Visit [www.phenomenex.com/Presston](http://www.phenomenex.com/Presston) to learn more!
Presston™ 1000 Positive Pressure Manifold Base Unit

What to expect in your Presston product box
Included in the unit is the 96-well plate manifold, a starter kit that includes tubing, manifold spacers, a gas regulator, and collection trough which are all required for set-up, and a converter kit to accommodate different sizes of tubing.

Setting up your positive pressure manifold is easy!
Go to www.phenomenex.com/Presstonsetup to watch a tutorial

Included in all boxes:
Starter Kit
- Tubing (6 mm)
- Gas Regulator
- Screwdriver
- Waste Trough
- Manifold Spacers

Converter Kit
- Converter Kit
Sample Preparation Compatibility with Presston 1000

A full selection of Phenomenex 96-well plate sample preparation products available to use with Presston 1000 that rely on high recoveries and well-to-well uniformity.

**Advantages**

<table>
<thead>
<tr>
<th>Technique</th>
<th>Increase Column Lifetime</th>
<th>Remove Particulates</th>
<th>Remove Proteins</th>
<th>Remove Phospholipids</th>
<th>De-salt</th>
<th>Solvent Switching</th>
<th>Specifically Extract Target Analyte</th>
<th>Concentrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein Precipitation</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>β-Glucuronidase Removal</td>
<td></td>
<td><strong>•</strong></td>
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<td><strong>•</strong></td>
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<td><strong>•</strong></td>
<td></td>
</tr>
<tr>
<td>Phospholipid Removal + Protein Precipitation</td>
<td></td>
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<tr>
<td>Supported Liquid Extraction</td>
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<tr>
<td>DNA/RNA Extraction</td>
<td></td>
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<tr>
<td>Solid Phase Extraction</td>
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</tr>
</tbody>
</table>

Proteinaceous samples require a protein precipitation step to promote protein aggregation which allows their removal from the solution/sample.

A β-Glucuronidase enzyme removal method to clean-up hydrolyzed urine from samples in less than 1 minute, ideal for rapid drug testing.

Biological samples require the removal of endogenous phospholipids and proteins as they are a primary source of ion suppression and resulting matrix effects.

Supported Liquid Extraction (SLE) is a faster, easier, and more reliable way to perform liquid-liquid extraction. Unwanted interferences can be removed such as proteins, salts, and phospholipids.

Isolate RNA and DNA-based therapeutics / metabolites from biological fluids and tissues in 15 minutes with no liquid-liquid extraction and an optimized method for LC-MS bioanalysis.

A separation process that is used to remove compounds from a mixture, based on their physical and chemical properties. Analytical laboratories use solid phase extraction to concentrate and purify samples for analysis from a wide variety of matrices.

Presston 1000 is compatible with standard 96-well plates and collection plates, including microelution plates and can even be used with a tube holder (Phenomenex Part No.: AH0-9055) for tabless 1 mL tubes. Simply change the manifold spacers to fit correctly!
96-Well Plate Vacuum Manifold

- Pulls liquid via vacuum pressure
- Designed to accommodate any 96-well plate, microelution, collection, and filtration plates

Compatible with:

Collection plate spacers accommodate various collection plate heights.

Well Plate Manifold includes:
vacuum gauge assembly, acrylic chamber, manifold base plate, and two collection plate spacer inserts.
96-Well Plate Vacuum Manifold Assembly

96-Well Plate Sample Preparation Product

Acrylic Chamber (manifold top)

Manifold Base Plate (houses collection plate)

Fully assembled, ready to cleanup, concentrate, and/or solvent-switch 96 samples at one time.

96-Well Plate Manifold

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-Well Plate Manifold, Universal w/vacuum gauge</td>
<td>ea</td>
<td>AH0-8950</td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-Well Plate Manifold Replacement Gasket, Flat (to fit between acrylic chamber and 96-well plate), black</td>
<td>ea</td>
<td>AH0-7285</td>
</tr>
<tr>
<td>96-Well Plate Manifold Replacement Gasket, Profile, (to fit between acrylic chamber and manifold base), white</td>
<td>ea</td>
<td>AH0-7198</td>
</tr>
<tr>
<td>Reservoir, Single Well, High Profile, 96 Bottom Troughs</td>
<td>25/pk</td>
<td>AH0-8637</td>
</tr>
</tbody>
</table>
Tube Vacuum Manifolds

Accommodates a wide variety of sample preparation tubes

- Pulls liquid via vacuum pressure
- Increase sample throughput by processing up to 12 or 24 small samples or 10 large samples at one time
- Female luer inlets (on manifold) fit all male luer tipped SPE tubes and cartridges

Compatible with:

Compatible with:

Phospholipid Removal Solutions
β-Glucuronidase Removal Products
Simplified liquid extraction
Solid Phase Extraction
Polymeric SPE
Clarity

Tube Vacuum Manifold includes:
vacuum-tight glass chamber, vacuum gauge assembly, polypropylene lid with gasket, male and female luers and yellow end plugs, stopcock valves, collection rack assemblies, polypropylene needles, and lid support legs. Waste container included with 12-position manifold.
## Tube Vacuum Manifolds

### 24-Position

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 24-Position Vacuum Manifold Set, complete assembly</td>
<td>ea</td>
<td>AH0-6024</td>
</tr>
<tr>
<td>Consists of 3 support legs, base plate, dimple plate, small plate, medium plate, large plate, volumetric plate, and 12 retaining clips.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 24 – Position Vacuum Manifold Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE Gasket Glass Chamber</td>
<td>ea</td>
<td>AH0-6026</td>
</tr>
<tr>
<td>SPE Cover, Gasket and 24 Stopcocks</td>
<td>ea</td>
<td>AH0-6028</td>
</tr>
<tr>
<td>SPE Gaskets</td>
<td>2/pk</td>
<td>AH0-6030</td>
</tr>
<tr>
<td>SPE Collection Rack Assembly, including plates, legs and clips</td>
<td>ea</td>
<td>AH0-6038</td>
</tr>
</tbody>
</table>

Waste container only for 12-position vacuum manifold.

### 12-Position

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 12-Position Vacuum Manifold Set, complete assembly</td>
<td>ea</td>
<td>AH0-6023</td>
</tr>
<tr>
<td>Consists of 3 support legs, base plate, dimple plate, small plate, large plate, and 12 retaining clips.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 12 – Position Vacuum Manifold Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 12-Position Glass Chamber</td>
<td>ea</td>
<td>AH0-6025</td>
</tr>
<tr>
<td>SPE Cover, Gasket and 12 Stopcocks</td>
<td>ea</td>
<td>AH0-6027</td>
</tr>
<tr>
<td>SPE Gaskets</td>
<td>2/pk</td>
<td>AH0-6029</td>
</tr>
<tr>
<td>SPE Collection Rack Assembly, including plates, legs and clips</td>
<td>ea</td>
<td>AH0-6037</td>
</tr>
<tr>
<td>SPE 12-Position Vacuum Waste Container, polypropylene</td>
<td>10/pk</td>
<td>AH0-6052</td>
</tr>
</tbody>
</table>

### 10-Position Tall-Boy™

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 10-Position Tall-Boy Vacuum Manifold, complete assembly</td>
<td>ea</td>
<td>AH0-7502</td>
</tr>
<tr>
<td>Includes 4 plates: one base plate, one dimple plate, one small plate, one large plate, one medium plate, and three riser bar legs, along with 12 manifold clips to support the plates. The assembly also includes 10 polypropylene needles, 10 stopcocks, and 4 black legs to support the lid when taken off the glass block.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 10 – Position Tall-Boy Vacuum Manifold Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 10-Position Tall-Boy Vacuum Manifold, Glass Chamber</td>
<td>ea</td>
<td>AH0-7503</td>
</tr>
<tr>
<td>SPE 10-Position Tall-Boy Vacuum Manifold, Cover, Gasket and 10 Stopcocks</td>
<td>ea</td>
<td>AH0-7504</td>
</tr>
</tbody>
</table>

Questions about sample processing? Visit [www.phenomenex.com/livechat](http://www.phenomenex.com/livechat) to get answers.
### Vacuum Manifold Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter Caps for 1, 3 and 6 mL SPE tubes, polyethylene, with Luer tip</td>
<td>15/pk</td>
<td>AH0-7191</td>
</tr>
<tr>
<td>Adapter Caps for 12, 20, and 60 mL SPE tubes, polyethylene, with Luer tip</td>
<td>6/pk</td>
<td>AH0-7379</td>
</tr>
<tr>
<td>Strata® Syringe and Adapter Kit</td>
<td>ea</td>
<td>AH0-8278</td>
</tr>
<tr>
<td>SPE Manifold Needles, polypropylene</td>
<td>24/pk</td>
<td>AH0-6034</td>
</tr>
<tr>
<td>SPE Manifold Needles, stainless steel</td>
<td>12/pk</td>
<td>AH0-6035</td>
</tr>
<tr>
<td>SPE Drying Attachment for 12-position manifold</td>
<td>ea</td>
<td>AH0-6050</td>
</tr>
<tr>
<td>SPE Drying Attachment for 24-position manifold</td>
<td>ea</td>
<td>AH0-6051</td>
</tr>
<tr>
<td>Female Luer Fittings</td>
<td>2/pk</td>
<td>AH0-6053</td>
</tr>
<tr>
<td>Male Luer Fittings</td>
<td>2/pk</td>
<td>AH0-6054</td>
</tr>
<tr>
<td>Vacuum Gauge and Valve Assembly</td>
<td>ea</td>
<td>AH0-6057</td>
</tr>
<tr>
<td>Teflon® Needles</td>
<td>100/pk</td>
<td>AH0-6064</td>
</tr>
<tr>
<td>Teflon Needles</td>
<td>500/pk</td>
<td>AH0-6065</td>
</tr>
<tr>
<td>Retaining Clips</td>
<td>12/pk</td>
<td>AH0-6060</td>
</tr>
<tr>
<td>Plugs</td>
<td>50/pk</td>
<td>AH0-6061</td>
</tr>
<tr>
<td>Stopcocks</td>
<td>24/pk</td>
<td>AH0-6049</td>
</tr>
</tbody>
</table>
Collection Plates

- Reduced sample contamination with high quality, chemically inert polypropylene
- Available in conical V- and round-bottom formats
- Available in a variety of volumes

Conical V- and round-bottom for maximized sample delivery

Sealing Mats and Tape

- Fits all Phenomenex 96-well sample preparation plates and square- and round-well collection plates
- Reduces contamination and spills when transporting or storing

Complete Ordering Information
pp. 12-15

Sealing Mats

- Made from high quality silicone
- Available in both pierceable (for long term storage) and pre-slit (for ease of use) formats that can be used with strong organic solvents.
- Also available in:
  - Ethylene Vinyl Acetate (EVA)
  - Santoprene™

Sealing Tape

- Optimized for protein or peptide applications with small volumes of organic solvent and can be used with all 96-well plate formats.
**Round Well Collection Plates**

**500 µL Well Volume, Conical Bottom**

- **Part Number**: AH0-9341 (80/pk)
- **Well Volume**: 500 µL
- **Well Shape**: Round
- **Well Bottom**: Conical
- **Material**: Polypropylene

**Recommended Sealing Mats**
- AH0-8631 Pierceable, 96-Round Well 7 mm, Silicone
- AH0-8632 Pre-Slit, 96-Round Well 7 mm, Silicone
- AH0-7362 Sealing Tape Pad

**1 mL Well Volume, Round Bottom**

- **Part Number**: AH0-7279 (50/pk)
- **Well Volume**: 1 mL
- **Well Shape**: Round
- **Well Bottom**: Round
- **Material**: Polypropylene

**Recommended Sealing Mats**
- AH0-8631 Pierceable, 96-Round Well 7 mm, Silicone
- AH0-8632 Pre-Slit, 96-Round Well 7 mm, Silicone
- AH0-7362 Sealing Tape Pad

All dimensions are measured in mm.
Round Well Collection Plates

1.2 mL Well Volume, Round Bottom

Part Number: AH0-9332 (50/pk)
Well Volume: 1.2 mL
Well Shape: Round
Well Bottom: Round
Material: Polypropylene

Recommended Sealing Mats
AH0-8633 Pierceable, 96-Round Well 8 mm, Silicone
AH0-8634 Pre-Slit, 96-Round Well 8 mm, Silicone
AH0-7362 Sealing Tape Pad

2 mL Well Volume, Round Bottom

Part Number: AH0-8636 (50/pk)
Well Volume: 2 mL
Well Shape: Round
Well Bottom: Round
Material: Polypropylene

Recommended Sealing Mats
AH0-8633 Pierceable, 96-Round Well 8 mm, Silicone
AH0-8634 Pre-Slit, 96-Round Well 8 mm, Silicone
AH0-7362 Sealing Tape Pad

All dimensions are measured in mm.
Square Well Collection Plates

350 µL Well Volume, Conical Bottom

Part Number: AH0-7192 (50/pk)
Well Volume: 350 µL
Well Shape: Square
Well Bottom: Conical
Material: Polypropylene

Recommended Sealing Mats
AH0-8597 Pierceable, 96-Square Well, Silicone
AH0-8598 Pre-Slit, 96-Square Well, Silicone
AH0-8199 Pierceable, 96-Square Well, Santoprene™
AH0-7195 Pierceable, 96-Square Well, Ethylene Vinyl Acetate (EVA)
AH0-7362 Sealing Tape Pad

1 mL Well Volume, Conical Bottom

Part Number: AH0-7193 (50/pk)
Well Volume: 1 mL
Well Shape: Square
Well Bottom: Conical
Material: Polypropylene

Recommended Sealing Mats
AH0-8597 Pierceable, 96-Square Well, Silicone
AH0-8598 Pre-Slit, 96-Square Well, Silicone
AH0-8199 Pierceable, 96-Square Well, Santoprene™
AH0-7195 Pierceable, 96-Square Well, Ethylene Vinyl Acetate (EVA)
AH0-7362 Sealing Tape Pad

All dimensions are measured in mm.
Square Well Collection Plates

2 mL Well Volume, Conical Bottom

2 mL Well Volume, Round/Conical Bottom

All dimensions are measured in mm.

Phenomenex | WEB: www.phenomenex.com
Choose the Right Vials, Septa, and Caps to Hold Your Samples!

From start to finish, Verex™ Certified vial and cap products are manufactured to provide high quality, state-of-the-art solutions for your most challenging, sensitive applications. Our innovative precision products offer compatibility with virtually any autosampler and provide air-tight, leak-free seals to safely store and transfer your most important samples. Verex vials are guaranteed for 100% satisfaction.

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- Advanced manufacturing
- Multi-step QA/QC
- Cleanroom packaged
- Certified quality

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Visit:
www.phenomenex.com/VialFinder

2 Easy Steps:

1. Enter your current vial or cap part number
2. Order the recommended Verex part number
### Septa

<table>
<thead>
<tr>
<th>Septa Material</th>
<th>Advantages</th>
<th>Chemical Resistance</th>
<th>Applications</th>
<th>Max Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTFE</td>
<td>Economical</td>
<td>Excellent</td>
<td>For single use only</td>
<td>200 °C</td>
</tr>
<tr>
<td>PTFE/Silicone</td>
<td>Excellent resealing capabilities</td>
<td>Excellent until punctured; Not suitable for chlorosilanes</td>
<td>Multiple injections then moderate resistance</td>
<td>200 °C</td>
</tr>
<tr>
<td>PTFE/Silicone, Pre-Slit</td>
<td>Reduces coring; Prevents vacuum from inside of vial</td>
<td>Excellent until punctured then moderate resistance</td>
<td>Multiple injections</td>
<td>200 °C</td>
</tr>
<tr>
<td>PTFE/Silicone/PTFE</td>
<td>Resistant to coring; Autoclavable</td>
<td>Excellent</td>
<td>Above average resealing; Applications or applications with long periods between injections</td>
<td>200 °C</td>
</tr>
<tr>
<td>PTFE/Red Rubber</td>
<td>Economical</td>
<td>Excellent until punctured</td>
<td>Not recommended for holding samples for further analysis</td>
<td>90 °C</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>Economical</td>
<td>Good; Not resealable</td>
<td>For single injection use only</td>
<td>175 °C</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>Economical</td>
<td>Good; Not resealable</td>
<td>For single injection use only</td>
<td>175 °C</td>
</tr>
<tr>
<td>Gray Chlorobutyl Rubber</td>
<td>Very Economical</td>
<td>Not suitable for chlorinated solvents alkanes, benzenes or cyclohexanes</td>
<td>Suitable for low pressure applications</td>
<td>100 °C</td>
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</tbody>
</table>

### Caps

<table>
<thead>
<tr>
<th>Top Types</th>
<th>Benefits</th>
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</thead>
<tbody>
<tr>
<td>Crimp</td>
<td>Larger opening style prevents broken needs and system downtime, excellent for volatile samples</td>
</tr>
<tr>
<td>Screw</td>
<td>Secure fittings reduce contamination for high sensitivity work</td>
</tr>
<tr>
<td>Snap</td>
<td>Good for high throughout labs who need to save time without crimping or twisting, secure fit</td>
</tr>
</tbody>
</table>

### Autosampler Compatibility

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>11 mm Crimp</th>
<th>8-425 (6 mm) Screw Thread</th>
<th>9-425 (9 mm) Screw Thread</th>
<th>10-425 (10 mm) Screw Thread</th>
<th>15 x 45 mm 4 mL</th>
<th>Headspace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent®</td>
<td>1050</td>
<td>X</td>
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<td>1090A</td>
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<td>1100/1200 Wellplate/ NanoFlow</td>
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<tr>
<td>Shimadzu®</td>
<td>AOC-8B/9, AOC-14/1400</td>
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<td>AOC-5000</td>
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<tr>
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<td>SIL-HT/10ADV, LC-2010</td>
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<tr>
<td>Waters®</td>
<td>WISP™ 48 position tray</td>
<td>X</td>
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<tr>
<td></td>
<td>Alliance® 2690</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Model 2767</td>
<td>X</td>
<td>X</td>
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<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Model 2777</td>
<td>X</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>ACQUITY™</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>CapLC</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

M = magnetic seal is required for use with the autosampler.

Find a vial compatible with most common autosamplers! Download the chart at www.phenomenex.com/verex
# Standard Vials

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Finish</th>
<th>Total Volume</th>
<th>Color</th>
<th>Cap</th>
<th>Septa Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 32 mm</td>
<td>11 mm</td>
<td>2.0 mL</td>
<td>Clear and Amber</td>
<td>11 mm Crimp-Top</td>
<td>PTFE/PTFE/PTFE, PTFE/Silicone/PTFE, PTFE/Rubber/PTFE</td>
</tr>
<tr>
<td>12 x 32 mm</td>
<td>11 mm</td>
<td>2.0 mL</td>
<td>Clear and Amber</td>
<td>11 mm Snap-Top</td>
<td>PTFE/PTFE/PTFE, PTFE/Silicone/PTFE, PTFE/Rubber/PTFE</td>
</tr>
<tr>
<td>12 x 32 mm</td>
<td>10 mm</td>
<td>2.0 mL</td>
<td>Clear and Amber</td>
<td>10 mm Screw-Top, Bonded in Cap Option</td>
<td>PTFE/Silicone</td>
</tr>
<tr>
<td>12 x 32 mm</td>
<td>9 mm</td>
<td>2.0 mL</td>
<td>Clear and Amber</td>
<td>9 mm Screw-Top, Bonded in Cap</td>
<td>PTFE/Silicone</td>
</tr>
<tr>
<td>12 x 32 mm</td>
<td>8 mm</td>
<td>2.0 mL</td>
<td>Clear and Amber</td>
<td>8 mm (8-425) Screw-Top, Bonded in Cap Options</td>
<td>PTFE/Silicone</td>
</tr>
<tr>
<td>15 x 45 mm</td>
<td>13 mm</td>
<td>4.0 mL</td>
<td>Clear and Amber</td>
<td>13 mm Screw-Top, Bonded in Cap Option</td>
<td>PTFE/Silicone</td>
</tr>
<tr>
<td>15 x 45 mm</td>
<td>N/A</td>
<td>4.0 mL Shell Vials</td>
<td>Clear</td>
<td>Polyethylene Cap</td>
<td>N/A</td>
</tr>
<tr>
<td>8 x 40 mm</td>
<td>N/A</td>
<td>1.0 mL Shell Vials</td>
<td>Clear</td>
<td>Polyethylene Cap</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**TIP**

EU vials also available!

Find the correct vial part number and request a free sample!

[www.phenomenex.com/vialfinder]
## Limited Volume Specialty Vials

### 12 x 32mm Specialty Vials

<table>
<thead>
<tr>
<th>Type and Description</th>
<th>Finish</th>
<th>Material</th>
<th>Total Volume</th>
<th>Residual Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Recovery CD Vial</td>
<td>9 mm</td>
<td>Glass</td>
<td>1.5 mL</td>
<td>&lt; 20 µL</td>
</tr>
<tr>
<td>Max-Recovery CD Vial</td>
<td>11 mm Snap or 9 mm</td>
<td>Glass</td>
<td>1.5 mL</td>
<td>&lt; 2 µL</td>
</tr>
<tr>
<td>Insert Vial</td>
<td>11 mm Snap</td>
<td>Glass</td>
<td>300 µL</td>
<td>&lt; 4 µL</td>
</tr>
<tr>
<td>Insert Vial</td>
<td>11 mm Crimp or 11 mm Snap or 9 mm</td>
<td>Glass</td>
<td>475 µL</td>
<td>&lt; 2 µL</td>
</tr>
<tr>
<td>Insert Vial</td>
<td>10 mm Screw Thread</td>
<td>Glass</td>
<td>450 µL</td>
<td>&lt; 2 µL</td>
</tr>
<tr>
<td>Plastic Vial</td>
<td>9 mm</td>
<td>Polypropylene</td>
<td>700 µL</td>
<td>&lt; 5 µL</td>
</tr>
<tr>
<td>Plastic Vial</td>
<td>11 mm Snap or 9 mm</td>
<td>Polypropylene</td>
<td>300 µL</td>
<td>&lt; 2 µL</td>
</tr>
<tr>
<td>Micro Vial with Tapered Base</td>
<td>11 mm Crimp or 11 mm Snap or 10 mm Screw Thread</td>
<td>Glass</td>
<td>1.5 mL</td>
<td>&lt; 4 µL</td>
</tr>
</tbody>
</table>

---

Have questions?  
[www.phenomenex.com/livechat](http://www.phenomenex.com/livechat)
The Right Accessories
Keep Your Lab Safe

The SecurityCAP™ mobile phase and solvent waste safety caps prevent dangerous vapors and gases from leaving HPLC/UHPLC solvent reservoirs. Over time, these chemicals can have a negative impact on the health of all employees and visitors in the lab. When lab safety and dependable results are a priority, you need SecurityCAPs!

Phenomenex SecurityCAP offers:

- **Safer Laboratory Work Environment**
  Solvents, vapors, and gases are restricted to their containers

- **Protects HPLC/UHPLC Results**
  Eliminates dust and other air contaminants from testing results

- **Easy to Use**
  No more twisting tubes during bottle exchange

- **Confidence During Audits**
  Eliminate aluminum foil or Parafilm® covering solvent bottles

### Avoid
Solvent Evaporation and Contamination

<table>
<thead>
<tr>
<th>Protection</th>
<th>Open Top</th>
<th>Aluminum foil wrapped bottle top</th>
<th>Cap with two 10 mm holes in the plastic</th>
<th>SecurityCAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protects staff and visitors from volatile organic compounds released into lab</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Ensures confidence during quality and safety audits</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Protects solvents from both atmospheric particulates and contaminants</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Saves money by preventing solvent evaporation</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Prevents chemical spills/splashes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Time monitor device for protection</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>100% Sealable</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Easy to use</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Improves lab safety</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Visit: [www.phenomenex.com/securitycap](http://www.phenomenex.com/securitycap) to learn more!
Mobile Phase Safety Filter and Cap

Particulate Protection
PTFE filter membrane prevents contaminants and dust from entering your solvent

Vapor Protection
An integrated one-way valve protects lab air quality by preventing hazardous vapors and gases from leaving the solvent container. The valve allows air to flow into the vessel to compensate for the pressure during solvent removal

Anti-twist Design
Freely rotating cap body prevents twisting tubes during solvent bottle exchange

Secure Seal
Viton® O-ring provides air tight connection to the glass bottle

Waste Exhaust Filter and Cap

Large Capacity Waste Safety Filter
High surface area (560 m²/g) multi-compound adsorbent captures evaporated solvents

Filtered Safe Air
Polyethylene foam ring provides excellent seal onto plastic containers

Waste Exhaust Filter
Harmful chemical vapors are safely collected and provide air quality protection

It’s Easy to Change Solvent Waste Containers
Freely rotating cap body prevents twisting tubes during waste container exchange

Waste Solvent
Polyethylene foam ring provides excellent seal onto plastic containers

Vapors/Gases
### Ordering Information

#### Starter Kits

<table>
<thead>
<tr>
<th>SecurityCAP™ Mobile Phase Starter Kits</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-port GL45 Cap and 6-month Safety Filter</td>
<td>AC2-1245</td>
</tr>
<tr>
<td>3-port GL45 Cap and 6-month Safety Filter</td>
<td>AC2-1345</td>
</tr>
<tr>
<td>2-port GL45 Caps (x4) and 6-month Safety Filter (x4)</td>
<td>AC2-4245</td>
</tr>
<tr>
<td>3-port GL45 Caps (x4) and 6-month Safety Filter (x4)</td>
<td>AC2-4345</td>
</tr>
<tr>
<td>4-port GL45 Cap (x1) and 2-port Cap (3x) and 6-month Safety Filter (x4)</td>
<td>AC2-4445</td>
</tr>
<tr>
<td>4-port GL45 Cap and 6-month Safety Filter</td>
<td>AC2-1445</td>
</tr>
<tr>
<td>5-port GL45 Cap and 6-month Safety Filter</td>
<td>AC2-1545</td>
</tr>
<tr>
<td>5-port S60/S61 Cap and 6-month Safety Filter</td>
<td>AC2-1561</td>
</tr>
<tr>
<td>2-port Merck S40 Caps (x4) and 6-month Safety Filter (x4)</td>
<td>AC2-4240</td>
</tr>
</tbody>
</table>

#### SecurityCAP Waste Starter Kits

<table>
<thead>
<tr>
<th>SecurityCAP Waste Starter Kits</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-port GL/DIN45 Cap and 6-month Exhaust Filter + Barbed connector</td>
<td>AC1-1245</td>
</tr>
<tr>
<td>5-port GL/DIN45 Cap and 6-month Exhaust Filter</td>
<td>AC1-1545</td>
</tr>
<tr>
<td>5-port DIN51 Cap and 6-month Exhaust Filter</td>
<td>AC1-1551</td>
</tr>
<tr>
<td>5-port S61 Cap and 6-month Exhaust Filter</td>
<td>AC1-1561</td>
</tr>
</tbody>
</table>

#### Replacement Parts

<table>
<thead>
<tr>
<th>SecurityCAP Mobile Phase Safety Filter</th>
<th>Each</th>
<th>10/pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-month Capacity, ¼ in.-28 Threads</td>
<td>AC2-0161</td>
<td>AC2-0961</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SecurityCAP Waste Safety Filters</th>
<th>Each</th>
<th>3/pk</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-month Exhaust Filter for SecurityCAP, ¼ in.-28 Threads</td>
<td>AC1-0161</td>
<td>AC1-0361</td>
</tr>
<tr>
<td>6-month Exhaust Filter for Wide-port Caps, GL14 Threads</td>
<td>AC1-0162</td>
<td>AC1-0362</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SecurityCAP Fittings</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>for ¼ in. or 2.0 mm ID Tubing, ¼ in.-28 Threads (POM), blue</td>
<td>AC3-1101</td>
</tr>
<tr>
<td>for 2.3-2.6 mm ID Tubing, ¼ in.-28 Threads (POM), white</td>
<td>AC3-1201</td>
</tr>
<tr>
<td>for ¼ in. ID Tubing, ¼ in.-28 Threads (POM), black</td>
<td>AC3-2101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SecurityCAP Connectors</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbed connector, for 5-8 mm ID Tubing (PTFE), white</td>
<td>AC3-1001</td>
</tr>
<tr>
<td>Y-connector for 6-8 mm ID Tubing (POM), white</td>
<td>AC3-1301</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SecurityCAP Adapter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap Thread Adapter, PTFE, GPI/GL 38 Female to GL45 Male</td>
<td>AC2-1138</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SecurityCAP Sealing Plug</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼ in.-28 Threads (POM), white</td>
<td>AC3-2001</td>
</tr>
</tbody>
</table>
Sample Preparation Tools and Resources

- Search Hundreds of Applications
- Syringe Filter Finder Tool
- Sample Preparation Support at Your Fingertips
- SPE Method Development Tool
- Sample Preparation Basics Overview

www.phenomenex.com/sampleprep