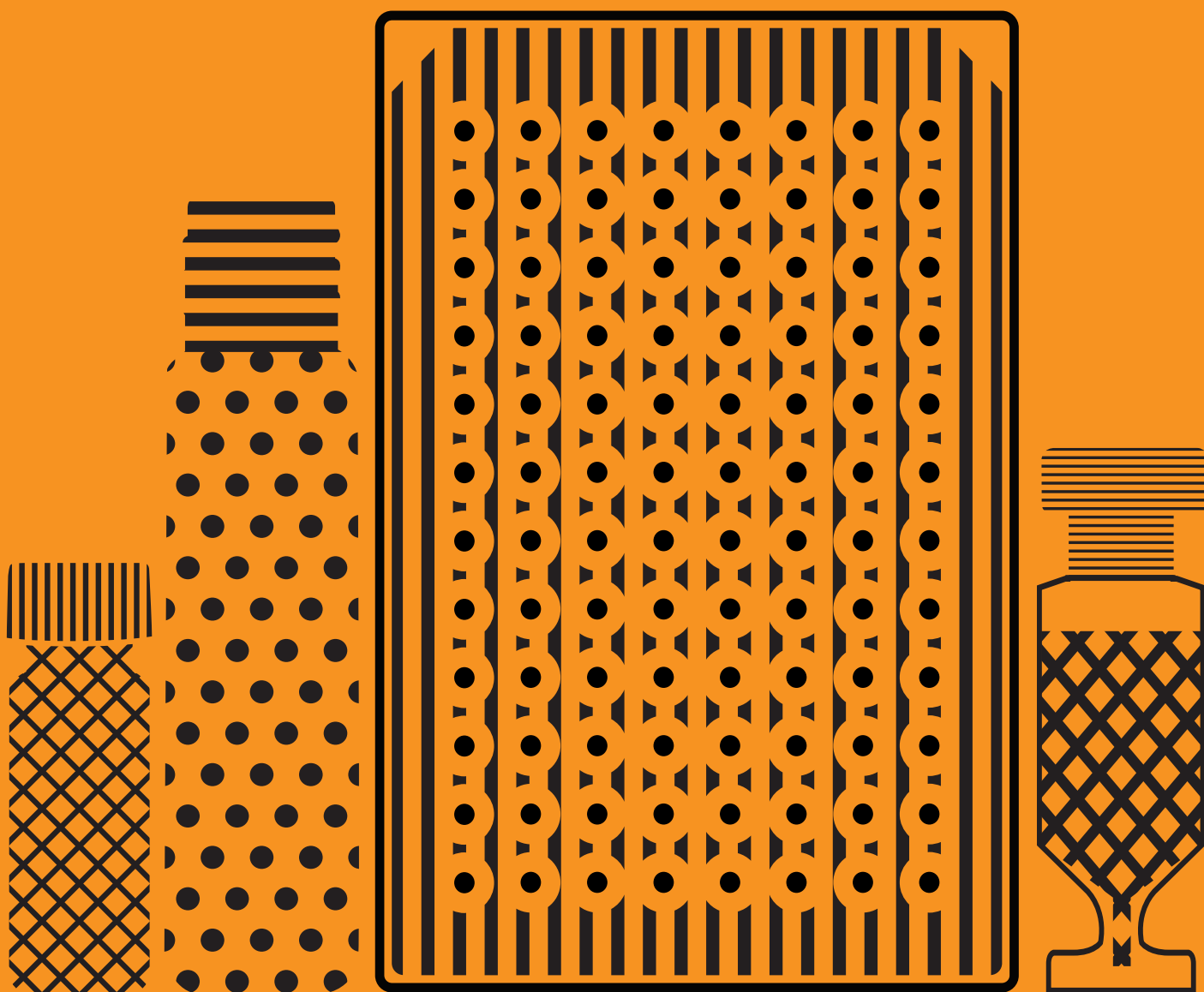


SAMPLE PREPARATION ACCESSORIES

From Sample Processing to Laboratory Safety



www.phenomenex.com/SPacc

 **phenomenex™**

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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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"

Simple to Use

Pneumatic manifold movement reduces manual labor with more reliable extractions

Never Lose Pressure

Always maintain a tight seal between the manifold and 96-well plate

Determine Your Operating Pressure

Conveniently monitor and maintain a consistent pressure

Easily Load Samples

Moveable locator plate makes sample loading and cleaning easy

Know your Step

Simply move the "SPE Procedure Indicator" to the correct step to stay on track of your extraction.



Presston 1000
Part No.: [AH1-7033](#)

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



Safer Lab Environment

Use both hands to move manifold shield, ensuring enhanced safety

Visit

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.

Presston 1000
Part No.: [AH1-7033](#)



Go to www.phenomenex.com/Presstonsetup to watch how easy it is to get started!



Included in all boxes:

Starter Kit



Converter Kit

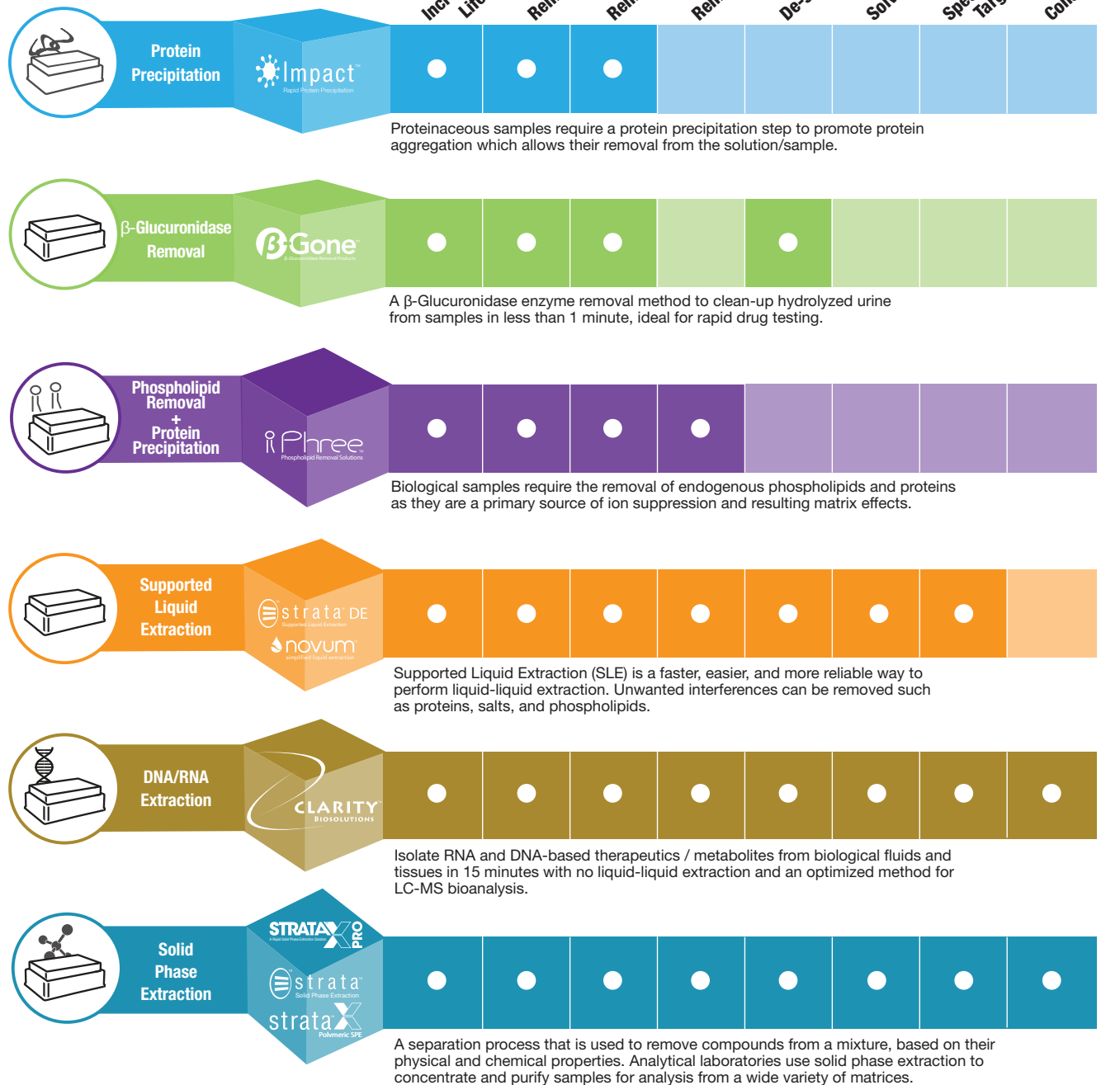


Sample Preparation Compatibility with Presston 1000

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. To learn more, visit: www.phenomenex.com/sampleprep

Advantages

Technique

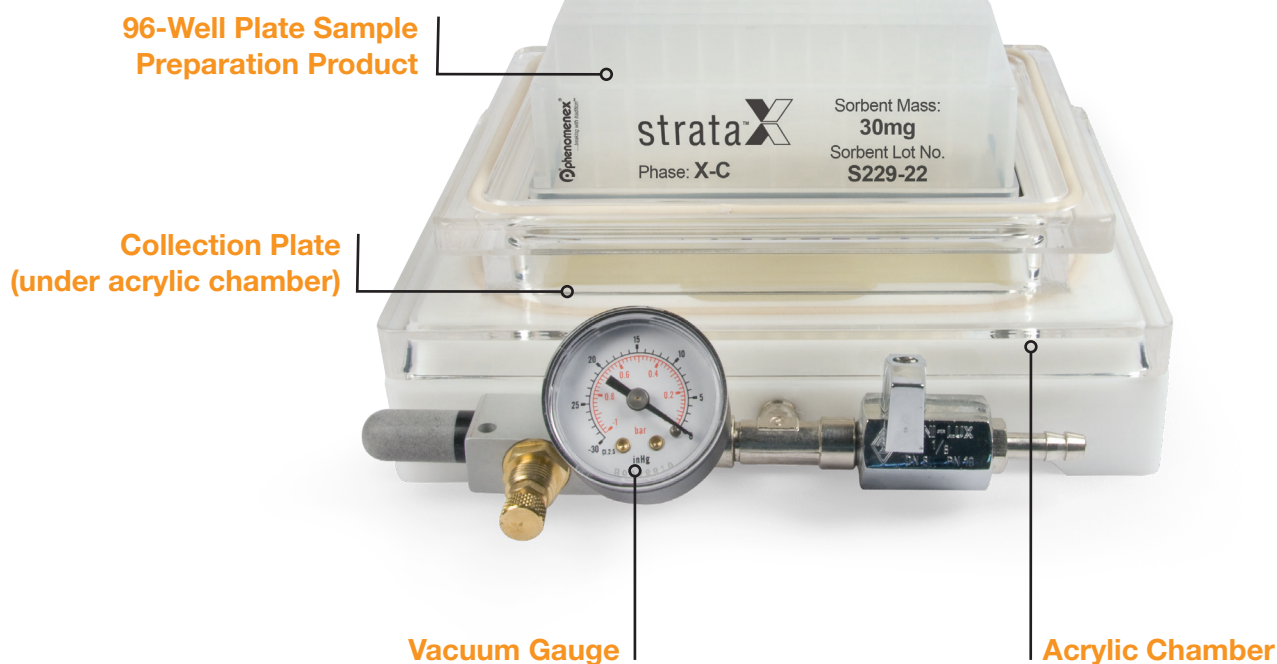


Presston 1000 is compatible with standard 96-well plates and collection plates, including microelution plates and can even be used with a tube holder (Phenomenex Part No.: [AH0-9055](#)) for tabless 1 mL tubes. Simply change the manifold spacers to fit correctly!

96-Well Plate Vacuum Manifold

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

Compatible with:



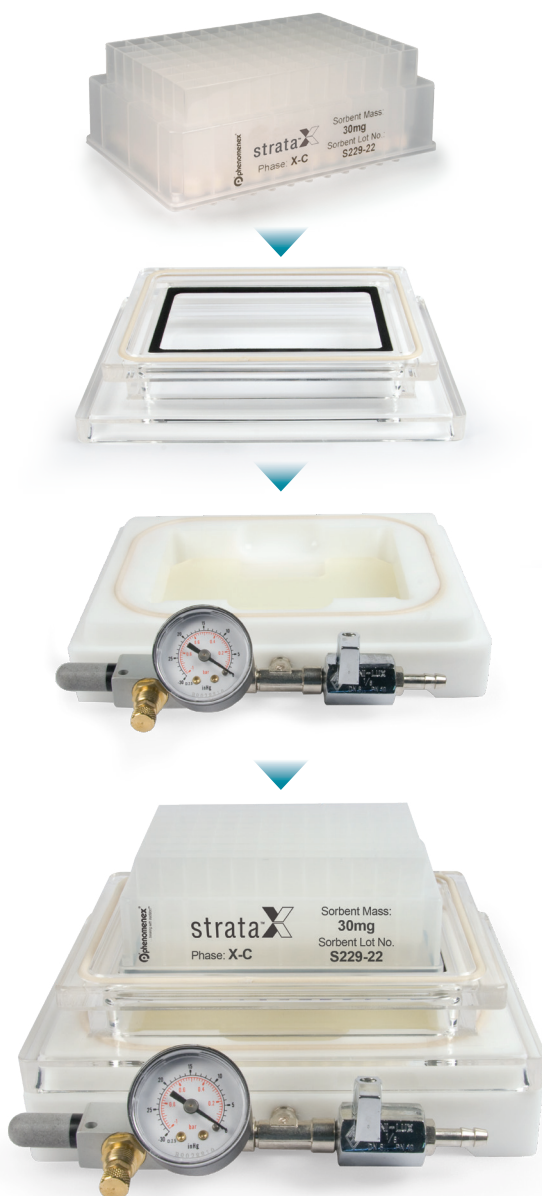
TIP

Collection plate spacers accommodate various collection plate heights.

Well Plate Manifold includes:

- Vacuum gauge assembly
- Acrylic chamber
- Manifold base plate
- Two collection plate spacer inserts

96-Well Plate Vacuum Manifold Assembly



AH0-8950

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.

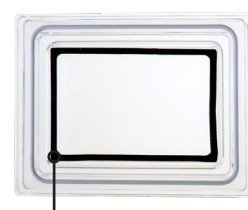
96-Well Plate Manifold**

Part No.	Description	Unit
AH0-8950	96-Well Plate Manifold, Universal w/vacuum gauge	ea

Replacement Parts

Part No.	Description	Unit
AH0-7285	96-Well Plate Manifold Replacement Gasket, Flat (to fit between acrylic chamber and 96-well plate), black	ea
AH0-7198	96-Well Plate Manifold Replacement Gasket, Profile, (to fit between acrylic chamber and manifold base), white	ea
AH0-8637	Reservoir, Single Well, High Profile, 96 Bottom Troughs	25/pk

**Manifold, compatible with 2 mL Impact plate, Novum SLE 96-well plate, Phree Phospholipid Removal plate, Strata, and Strata-X 96-well plate formats.



Replacement Gasket (black lining)

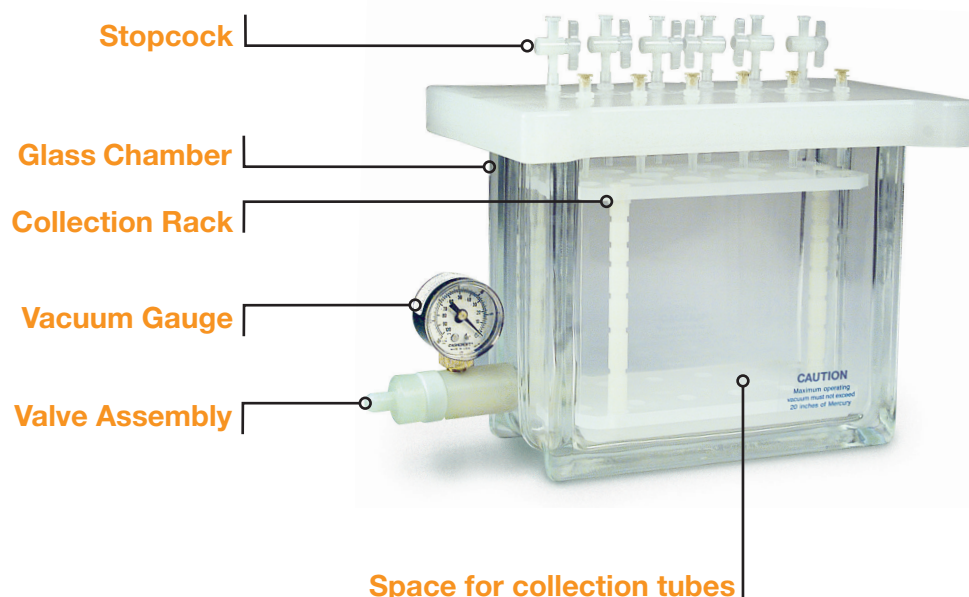
AH0-7285

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:



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
- Lid support legs
- Waste container included with 12-position manifold.

Tube Vacuum Manifolds

24-Position*

Part No.	Description	Unit
VM24	SPE 24-Position Vacuum Manifold Set, complete assembly	ea
24 – Position Vacuum Manifold Replacement Parts		
A82404	SPE Gasket	ea
VM24-J	SPE Collection Rack	ea
A82411	SPE 24-Position Vacuum Waste Container, polypropylene	ea
A81213	SPE Luer Stopcocks	12/pk

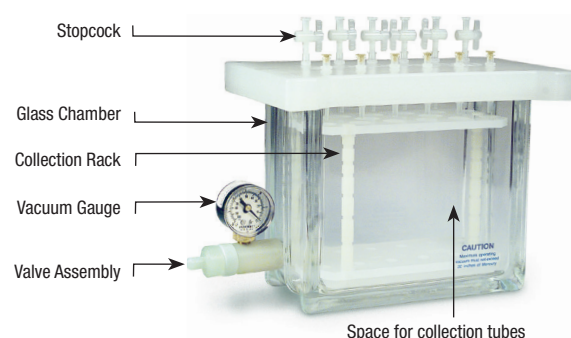
Waste container only for 12-position vacuum manifold.

Examples of Tube Replacement Parts



12-Position*

Part No.	Description	Unit
VM12	SPE 12-Position Vacuum Manifold Set, complete assembly	ea
12 – Position Vacuum Manifold Replacement Parts		
A80106	SPE Gasket	ea
A81216	SPE Collection Rack Assembly, including plates, legs and clips	ea
A81215	SPE 12-Position Vacuum Waste Container, polypropylene	ea
A81213	SPE Luer Stopcocks	12/pk



- Fits 13 mm and 16 mm test tubes up to 125 mm in height.
- A flow rate of 1 – 3 drops per second (1 – 3 mL /min) is recommended during the loading and elution steps for typical small volume samples (< 5 mL). At these critical steps the analytes are chemically interacting with the sorbent.
- Large volume samples (> 100 mL) in large cartridges (>1 gram) may be processed at flow rates between 5 – 10 mL/minute.
- Conditioning and Wash steps are generally not flow critical.
- Individual stopcocks are typically not needed when using the Strata-X family of sorbents. They are very forgiving of improper flow rates and are truly resistant to deconditioning effects caused by excessive drying during the method.
- Reversed phase methods are more forgiving of fast flow rates than ion-exchange or normal phase.

Compatible with:



* Manifolds include: 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, lid support legs. Waste container included with 12-position manifold.

Vacuum Manifold Accessories

Vacuum Manifold Accessories for Tube and 96-Well Plates



General Vacuum Manifold Accessories		
Description	Unit	Part No.
Adapter Caps for 1, 3 and 6 mL SPE tubes, polyethylene, with Luer tip	12/pk	A80215
SPE Manifold Needles, polypropylene	12/pk	A80100
SPE Manifold Needles, stainless steel	12/pk	A80102
Female Luer Fittings	12/pk	A80104
Male Luer Fittings	12/pk	A80105
Vacuum Gauge and Valve Assembly	ea	A01003
Retaining Clips	12/pk	A80111
Plugs/ Dust Caps	12/pk	A80117
Stopcocks	12/pk	A81213

Syringe Filters for LC/GC

Filtering your sample eliminates contaminants prior to injection onto your column or system

Filtration can:

- Clean samples for more consistent, reproducible results
- Extend column lifetime
- Reduce back pressure (caused by contaminant and particulate build-up at the head of the column)
- Save your system's rotor seals, valve stators, and several other moving components from unnecessary wear and damage that can result from undissolved sample particulates grinding away at the system components

www.phenomenex.com/Phenex



Simplify your Syringe Filters!

Two-Step Vials for Filtration and Analysis

Verex Filter Vials combines syringe filter and vial technology, eliminating the need for separate syringes, syringe filters, vials, and cap/septa, allowing you to reduce lab waste and simplify your workflow.

www.phenomenex.com/VerexFV



Which Filter Membrane Is Right for Me?

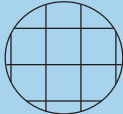
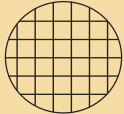
Phenex syringe filters are offered in a variety of chemically compatible membranes that are ideal for any application. Proper membrane and size selection are the keys to choosing the best product to maintain the integrity of your sample components as well as to protect your system from particulate contamination.

Select your filter in three EASY steps:

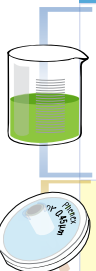
1. What is your sample volume?

< 2 mL Sample Volume	2 to 10 mL Sample Volume	11 to 100 mL Sample Volume
4 mm Diameter 	15 mm Diameter 	25 - 28 mm Diameter 

2. What is your LC column ID?

$\geq 3 \mu\text{m}$	$< 3 \mu\text{m}$	OR
0.45 μm 	0.20 μm 	Viscous samples such as serum, plasma, or other biological matrices. Solutions with high particulate load (e.g., some environmental or food and beverage applications).
		Glass Fiber Filter with 0.45 μm membrane

3. What type of sample are you working with?

Aqueous			Solvents	
	Solvents Mixtures	Tissue Culture Media, Buffers	Non-Aqueous	Aqueous Mixtures
			Hydrophobic/ Strong Acids	Hydrophilic
	RC (Regenerated Cellulose)	CA (Cellulose Acetate)	PTFE (Polytetrafluoroethylene)	RC (Regenerated Cellulose)

Ordering Information



4 mm Diameter

for ≤2 mL sample volumes

15 mm Diameter

for 2–10 mL sample volumes

25–30 mm Diameter

for 11–100 mL sample volumes

Membrane Type/Size	Part No.	Unit	Part No.	Unit	Part No.	Unit
0.20 µm						
Phenex-RC	AF0-3203-12	100/pk	AF0-2203-12	100/pk	AF0-8203-12	100/pk
(Regenerated Cellulose)	AF0-3203-52	500/pk	AF0-2203-52	500/pk	AF0-8203-52	500/pk
Phenex-PES ²	—	—	—	—	AF0-8208-12	100/pk
(Polyethersulfone)	—	—	—	—	AF0-8208-52	500/pk
Phenex-PTFE	AF0-3202-12	100/pk	AF0-2202-12	100/pk	AF0-1202-12	100/pk
(Polytetrafluoroethylene)	AF0-3202-52	500/pk	AF0-2202-52	500/pk	AF0-1202-52	500/pk
Phenex-NY	AF3-3207-12	100/pk	AF0-2207-12	100/pk	AF0-1207-12	100/pk
(Nylon)	AF3-3207-52	500/pk	AF0-2207-52	500/pk	AF0-1207-52	500/pk
Phenex-GF/NY ¹	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a Nylon (NY) membrane. Excellent for filtration of particle-laden samples, such as foods and beverages, environmental, biofuels, and dissolution samples. Use less hand pressure to filter even the most difficult samples. Outlet connection is luer lock.				AF0-1A47-12	100/pk
(Glass Fiber/Nylon)					AF0-1A47-52	500/pk
Phenex-PVDF	—	—	AF6-5206-12	100/pk	AF6-6206-12	100/pk
(Polyvinylidene Fluoride)	—	—	AF6-5206-52	500/pk	AF6-6206-52	500/pk
Phenex-GF/PVDF	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a PVDF membrane. The hydrophilic PVDF membrane provides high flow rates and throughput, low extractables and broad chemical compatibility. This membrane binds less protein than nylon or PTFE membranes.				AF6-6C06-12	100/pk
(Glass Fiber/Polyvinylidene Fluoride)					AF6-6C06-52	500/pk
Phenex-CA ³	—	—	—	—	AF0-8204-12	100/pk
(Cellulose Acetate)	—	—	—	—	AF0-8204-52	500/pk
Phenex-GF/CA ^{1,2,3}	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a CA membrane. Excellent for filtration of tissue culture media, general biological sample filtration and clarification. Outlet connection is luer lock.				AF0-8A09-12	100/pk
(Glass Fiber/Cellulose Acetate)					AF0-8A09-52	500/pk
0.45 µm						
Phenex-RC	AF0-3103-12	100/pk	AF0-2103-12	100/pk	AF0-8103-12	100/pk
(Regenerated Cellulose)	AF0-3103-52	500/pk	AF0-2103-52	500/pk	AF0-8103-52	500/pk
Phenex-PES ²	—	—	—	—	AF0-8108-12	100/pk
(Polyethersulfone)	—	—	—	—	AF0-8108-52	500/pk
Phenex-PTFE	AF0-3102-12	100/pk	AF0-2102-12	100/pk	AF0-1102-12	100/pk
(Polytetrafluoroethylene)	AF0-3102-52	500/pk	AF0-2102-52	500/pk	AF0-1102-52	500/pk
Phenex-NY	AF3-3107-12	100/pk	AF0-2107-12	100/pk	AF0-1107-12	100/pk
(Nylon)	AF3-3107-52	500/pk	AF0-2107-52	500/pk	AF0-1107-52	500/pk
Phenex-GF/NY ¹	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a Nylon (NY) membrane. Excellent for filtration of particle-laden samples, such as foods and beverages, environmental, biofuels, and dissolution samples. Use less hand pressure to filter even the most difficult samples. Outlet connection is luer lock.				AF0-1B47-12	100/pk
(Glass Fiber/Nylon)					AF0-1B47-52	500/pk
Phenex-PVDF	—	—	AF6-5106-12	100/pk	AF6-6106-12	100/pk
(Polyvinylidene Fluoride)	—	—	AF6-5106-52	500/pk	AF6-6106-52	500/pk
Phenex-GF/PVDF	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a PVDF membrane. The hydrophilic PVDF membrane provides high flow rates and throughput, low extractables and broad chemical compatibility. This membrane binds less protein than nylon or PTFE membranes.				AF6-6D06-12	100/pk
(Glass Fiber/Polyvinylidene Fluoride)					AF6-6D06-52	500/pk
Phenex-GF/CA ^{1,2,3}	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a CA membrane. Excellent for filtration of tissue culture media, general biological sample filtration and clarification. Outlet connection is luer lock.				AF0-8B09-12	100/pk
(Glass Fiber/Cellulose Acetate)					AF0-8B09-52	500/pk
1.20 µm						
Phenex-GF ^{1,2}	Prefiltration of heavily contaminated or highly viscous samples. When used in-line preceding a membrane filter, clogging of the membrane filter is prevented and sample clean up is optimized. Outlet connection is luer lock.				AF0-8515-12	100/pk
(Glass Fiber)					AF0-8515-52	500/pk

1. Glass fiber filters are 28mm diameter and made of borosilicate. They will remove 90 % of all particles > 1.2µm.

2. Housing material is methacrylate butadiene styrene (MBS) polymerisate. Also known as Cyrolite®.

3. Cellulose acetate is surfactant-free.

Above syringe filters are non-sterile. Housing is made of medical-grade polypropylene (PP). Luer lock inlet/slip outlet connections unless otherwise indicated. Additional dimensions and membrane types are available, including sterile filters. Please contact your local Phenomenex technical consultant or distributor for availability or assistance.

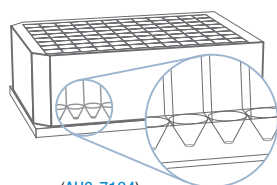
BE-HAPPY™
GUARANTEE

Your happiness is our mission. Take 45 days to try our products. If you are not happy, we'll make it right.
www.phenomenex.com/behappy

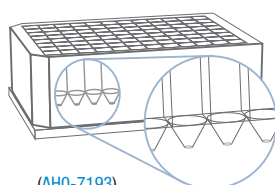
Collection Plates

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

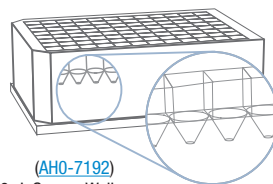
Conical V- and round-bottom for maximized sample delivery



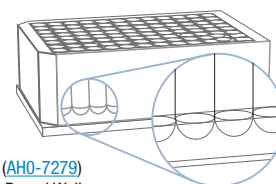
(AH0-7194)
2 mL Square Well



(AH0-7193)
1 mL Square Well



(AH0-7192)
350 µL Square Well



(AH0-7279)
1 mL Round Well

Collection Plates

Description	Unit	Part No.
350 µL/well 96-Square Well Conical V-bottom Collection Plate	50/pk	AH0-7192
1 mL/well 96-Square Well Conical V-bottom Collection Plate	50/pk	AH0-7193
1 mL/well 96-Round Well Round Bottom 7 mm Collection Plate	50/pk	AH1-7025
2 mL/well 96-Square Well Conical V-bottom Collection Plate	50/pk	AH0-7194
2 mL/well 96-Round Well Round Bottom 8 mm Collection Plate	50/pk	AH0-8636
1.2 mL/well 96-Round Well Round Bottom Collection Plate	50/pk	AH0-9332
0.5 mL/well 96-Round Well V-Bottom, 7 mm Collection Plate, Sterile	50/pk	AH0-9333
0.5 mL/well 96-Round Well Conical Bottom 7 mm Collection Plate	50/pk	AH0-9341
2 mL/well Low-Bind 96-Round Well Conical Bottom (deep well, polypropylene, glass lined) Collection Plate	120/pk	AH1-7036

Sealing Mats and Tape

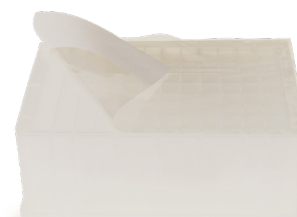
- Fits all Phenomenex 96-well sample preparation plates and square- and round-well collection plates
- Reduces contamination and spills when transporting or storing

Pierceable and pre-slit formats available



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) and Santoprene™

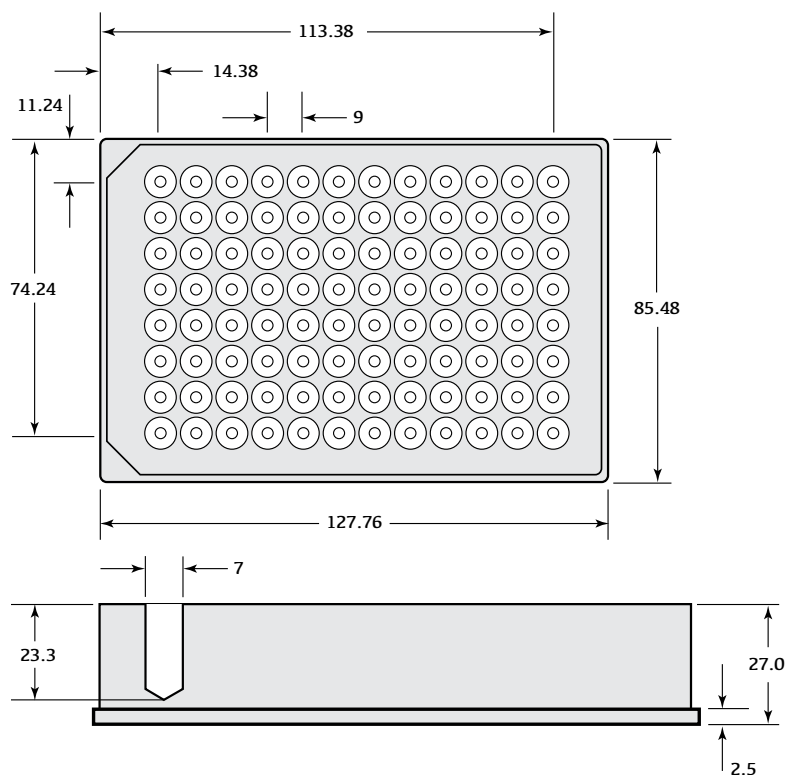


Sealing Tape

- 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 μ L Well Volume, Conical Bottom



All dimensions are measured in mm.

Part Number: [AH0-9341](#) (80/pk)

Well Volume: 500 μ L

Well Shape: Round

Well Bottom: Conical

Material: Polypropylene

Part Number: [AH0-9333](#) (80/pk)

Well Volume: 500 μ L

Well Shape: Round

Well Bottom: Conical

Material: Polypropylene

Special Notes: Part No. [AH0-9333](#) is Sterile

Recommended Sealing Mats

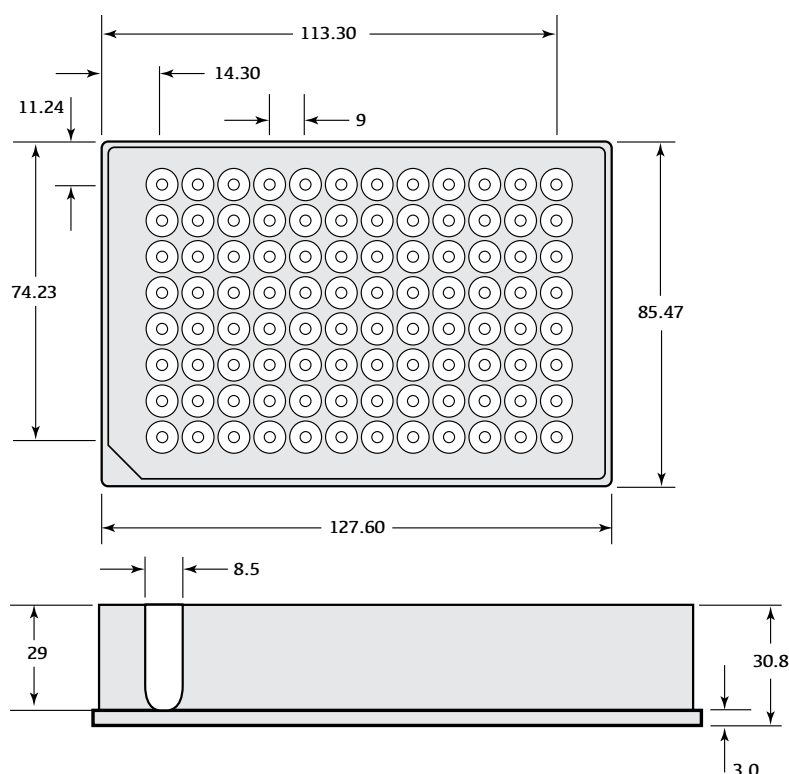
[AH0-8631](#) Pierceable, 96-Round Well 7 mm, Silicone

[AH0-8632](#) Pre-Slit, 96-Round Well 7 mm, Silicone

[AH0-7362](#) Sealing Tape Pad

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

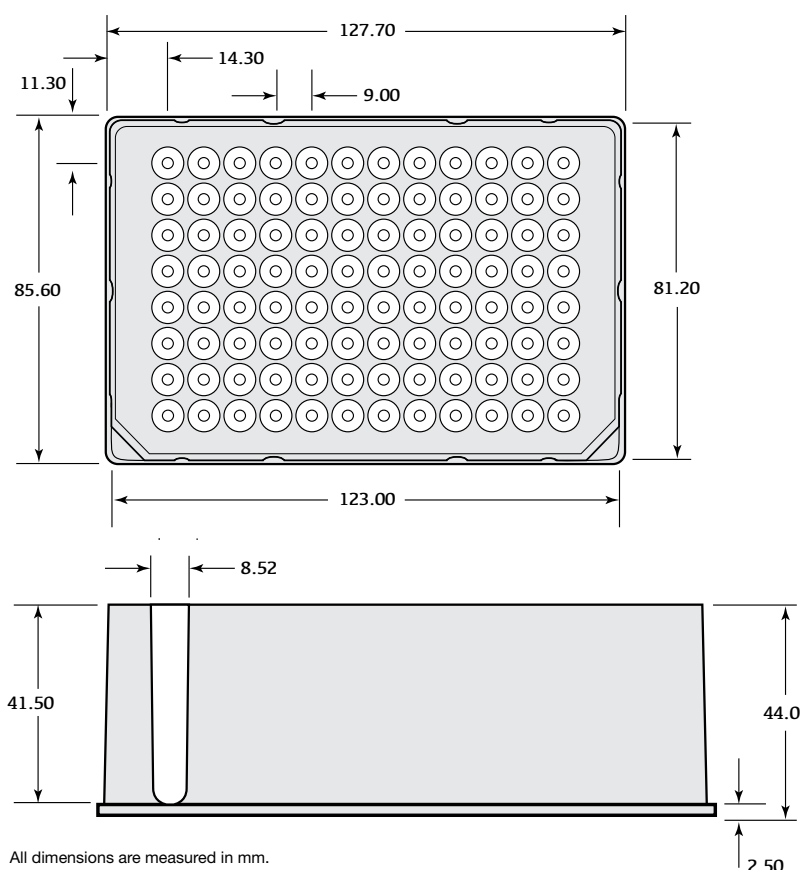
Recommended Sealing Mats

[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

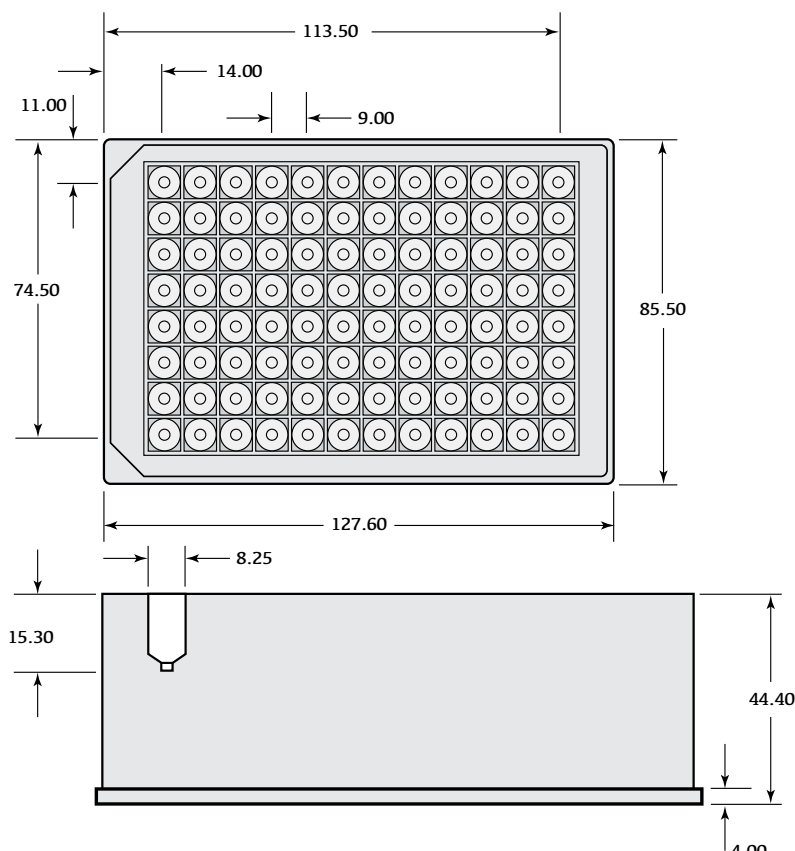
[AH0-8634](#) Pre-Slit, 96-Round Well 8 mm, Silicone

[AH0-7362](#) Sealing Tape Pad

All dimensions are measured in mm.

Square Well Collection Plates

350 μ L Well Volume, Conical Bottom



Part Number: [AH0-7192](#) (50/pk)

Well Volume: 350 μ L

Well Shape: Square

Well Bottom: Conical

Material: Polypropylene

Recommended Sealing Mats

[AH0-8597](#) Pierceable, 96-Square Well, Silicone

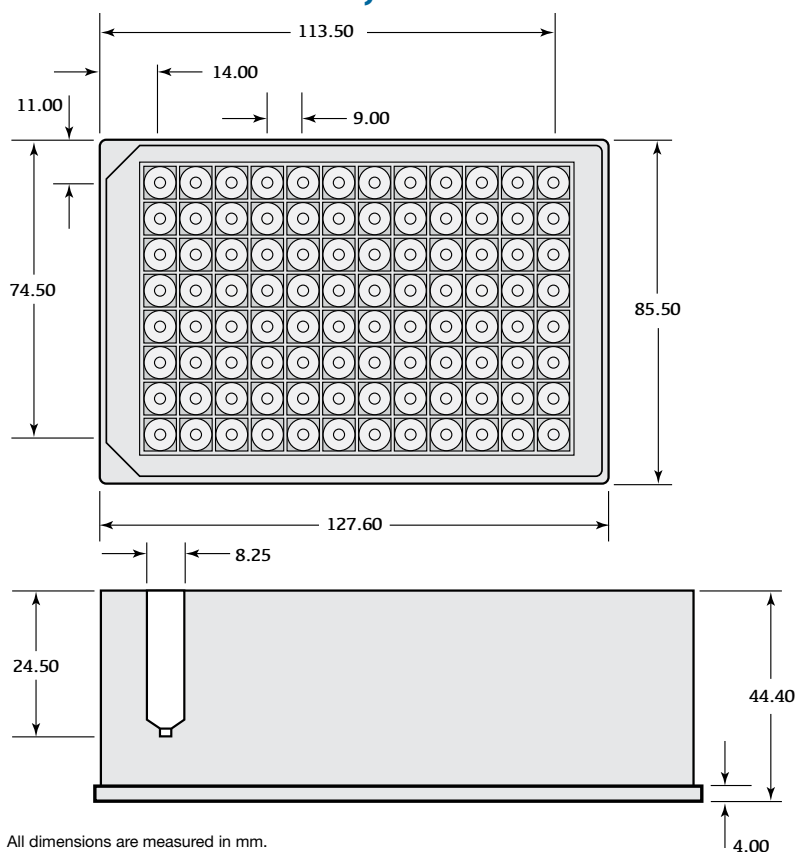
[AH0-8598](#) Pre-Slit, 96-Square Well, Silicone

[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

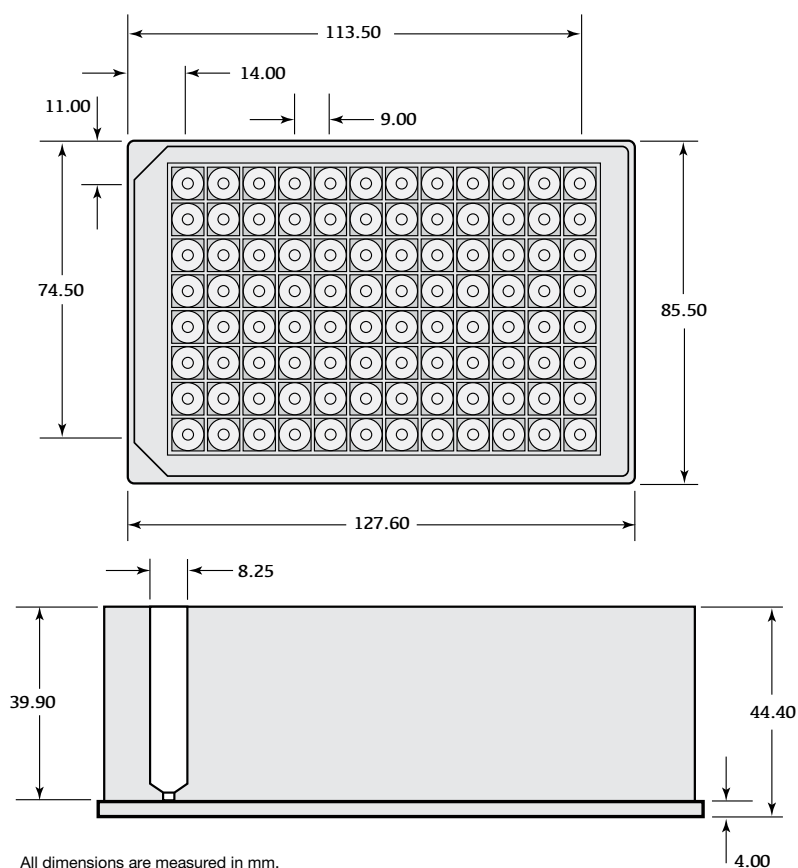
[AH0-7195](#) Pierceable, 96-Square Well,
Ethylene Vinyl Acetate (EVA)

[AH0-7362](#) Sealing Tape Pad

All dimensions are measured in mm.

Square Well Collection Plates

2 mL Well Volume, Conical Bottom



Part Number: [AH0-7194](#) (50/pk)

Well Volume: 2 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

NEW Glass Lined Collection Plates for Low Protein Binding

Part Number: [AH1-7036](#) (50/pk)

Well Volume: 2 mL

Well Shape: Square

Well Bottom: Conical

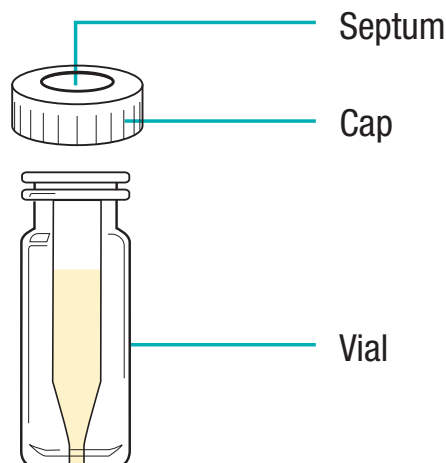
Material: Polypropylene, Glass Lined Wells

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.

All Vials, Caps and Kits

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



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

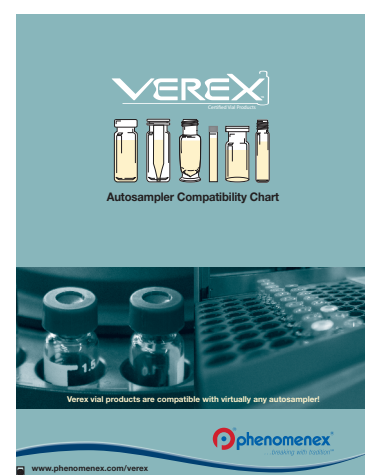
Septa

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

Caps

Top Types	Benefits
Crimp 	Larger opening style prevents broken needles and system downtime, excellent for volatile samples
Screw 	Secure fittings reduce contamination for high sensitivity work
Snap 	Good for high throughput labs who need to save time without crimping or twisting, secure fit

VEREX
Autosampler Compatibility Chart



Verex vial products are compatible with virtually any autosampler!

phenomenex
Serving the world since 1969

www.phenomenex.com/verex

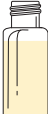
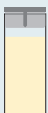
Autosampler Compatibility

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

Manufacturer	Model	11 mm Crimp	8-425 (8 mm) Screw Thread	9-425 (9 mm) Screw Thread	10-425 (10 mm) Screw Thread	15 x 45 mm 4 mL	Headspace
Agilent®	1050	X		X			
	1090A	X	X	X			
	1100/1200 Wellplate/ NanoFlow	X		X			
	6850ALS	X					
	7673A/7683	X					
	7694E						X
Shimadzu®	AOC-8B/9, AOC-14/1400	X	X	X			
	AOC-5000	X	X	X	X		M
	AOC-20	X		X		X	
	HSS-2B/4B						X
	SIL-10A		X	X	X		
	SIL-HT/10ADVP, LC-2010	X	X	X	X		
Waters®	WISP™ 48 position tray					X	
	Alliance® 2690		X	X	X		
	Model 2767		X	X	X		
	Model 2777				X		
	ACQUITY™	X	X	X	X		
	CapLC	X	X	X			

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

Standard Vials

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

TIP

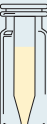
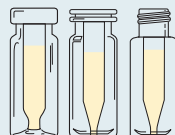
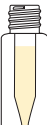
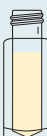
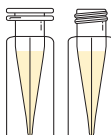
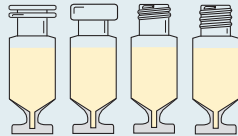
EU vials also available!

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

www.phenomenex.com/vialfinder

Limited Volume Specialty Vials

12 x 32mm Specialty Vials

	Type and Description	Finish	Material	Total Volume	Residual Volume
	High-Recovery CD Vial Center-draining	9 mm Screw Thread	Glass	1.5 mL	< 20 µL
	Max-Recovery CD Vial Center-draining	11 mm Snap or 9 mm Screw Thread	Glass	1.5 mL	< 2 µL
	Insert Vial µVial i2V	11 mm Snap	Glass	300 µL	< 4 µL
	Insert Vial µVial i3 (Qsert)	11 mm Snap or 9 mm Screw Thread	Glass	475 µL	< 2 µL
	Insert Vial µVial i3 (Qsert)	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread	Glass	475 µL	< 2 µL
	Insert Vial µVial i3 (Qsert)	10 mm Screw Thread	Glass	450 µL	< 2 µL
	Plastic Vial	9 mm Screw Thread	Polypropylene	700 µL	< 5 µL
	Plastic Vial	11 mm Snap or 9 mm Screw Thread	Polypropylene	300 µL	< 2 µL
	Micro Vial with Tapered Base v-Vial	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread or 10 mm Screw Thread	Glass	1.5 mL	< 4 µL

Verex Certified Vial Products

Ordering Information

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits

Convenience Kits – Certified PLUS (Cert+) Mass Spec Quality (MSQ) 9 mm Screw-Top Vials and Caps with Locked-Fit Septa

- For your most demanding analysis; high sensitive detectors
- HPLC and LC-MS tested and certified
- State-of-the-art design and manufacture

Ordering Information

Description	1000/pk
Cert+ MSQ Vial Kit, 9 mm, 2 mL Clear w/ Patch + MSQ PTFE/Silicone	ARO-992A-13-M
Cert+ MSQ Vial Kit, 9 mm, 2 mL Amber w/ Patch + MSQ PTFE/Silicone	ARO-992B-13-M

LEVEL 3



Convenience Kits – Certified PLUS (Cert+) 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Certified for cleanliness and enhanced quality
- Polyethylene-Starburst cap is an excellent choice for inertness

Ordering Information

Description	1000/pk
Cert+ Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone cap	ARO-9921-13-C
Cert+ Vial Kit, 9 mm, 2 mL Clear w/ Patch + PE-Starburst cap	ARO-9927-13-C
Cert+ Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit cap	ARO-9926-13-C

LEVEL 2



Convenience Kits – Certified PLUS (Cert+) Limited Volume Specialty 9 mm Screw-Top Vials and Caps

- Kits for microsampling (center-draining and fused-insert vials)
- Lower trace contaminants for higher sensitivity work
- Inert polypropylene (PP) vials for biochromatography or pH-sensitive applications

Ordering Information*

Description	100/pk	1000/pk
Cert+ Vial Kit, 9 mm, Maximum Recovery (CD) Clear + PTFE/Silicone cap*	ARO-9987-12-C	ARO-9987-13-C
Cert+ Vial Kit, 9 mm, Maximum Recovery (CD) Clear + PTFE/Silicone, preSlit cap*	ARO-9988-12-C	ARO-9988-13-C
Cert+ Vial Kit, 9 mm, High Recovery (CD) Clear + PE-Starburst cap**	ARO-9985-12-C	ARO-9985-13-C
Cert+ Vial Kit, 9 mm, High Recovery (CD) Amber + PE-Starburst cap**	ARO-9986-12-C	ARO-9986-13-C
Cert+ Vial Kit, 9 mm, µVial i3(Qsert) Clear w/ Patch + PTFE/Silicone, preSlit cap*	ARO-9974-12-C	ARO-9974-13-C
Cert+ Vial Kit, 9 mm, PP, 300 µL + PE-Starburst cap***	ARO-9995-12-C	ARO-9995-13-C
Cert+ Vial Kit, 9 mm, PP, 700 µL + PTFE/Silicone cap***	ARO-9993-12-C	ARO-9993-13-C
Cert+ Vial Kit, 9 mm, PP, 700 µL + PTFE/Silicone, preSlit cap***	ARO-9994-12-C	ARO-9994-13-C

*No write-on patch unless otherwise indicated **Vial made of Polypropylene.

*B = Bonded-In Septa. ** Cap is one piece, constructed of ultra-pure, medical-grade polyethylene.

LEVEL 2



Convenience Kits – 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Sample volume range from 0.2 to 1.5 mL

Ordering Information

Description	1000/pk
Vial Kit, 9 mm, 2 mL Clear + PTFE/Silicone	ARO-9901-13
Vial Kit, 9 mm, 2 mL Clear + PTFE/Silicone, preSlit	ARO-9903-13
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone	ARO-9921-13
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone, Silanized	ARO-9921-13-D
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit	ARO-9925-13
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit, Silanized	ARO-9925-13-D
Vial Kit, 9 mm, 2 mL Clear + PTFE/Silicone/PTFE	ARO-9905-13
Vial Kit, 9 mm, 2 mL Clear + PTFE/Rubber	ARO-9907-13
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Rubber, preSlit	ARO-9914-13
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone	ARO-9922-13
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, Silanized	ARO-9922-13-D
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit	ARO-9926-13
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit, Silanized	ARO-9926-13-D
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone/PTFE	ARO-9923-13
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Rubber	ARO-9912-13

best seller



Learn More. For additional product selection and detailed information visit:

www.phenomenex.com/Verex

Verex Certified Vial Products

Ordering Information

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits (cont'd)

Convenience Kits – Limited Volume Specialty 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Kits for microsampling (center-draining and fused-insert vials)
- CD and Qsert vials offer superior performance over vials with loose inserts
- Polypropylene (PP) vial kits for bio- or ion-chromatography, or pH-sensitive samples

Ordering Information*

Description	100/pk	1000/pk
Vial Kit, 9 mm, High Recovery (CD) Clear + PTFE/Silicone	AR0-9981-12	AR0-9981-13
Vial Kit, 9 mm, High Recovery (CD) Clear + PTFE/Silicone, preSlit	AR0-9982-12	AR0-9982-13
Vial Kit, 9 mm, µVial i3 (Qsert) Clear w/ Patch + PTFE/Silicone	AR0-9973-12	AR0-9973-13
Vial Kit, 9 mm, µVial i3 (Qsert) Clear w/ Patch + PTFE/Silicone, preSlit	AR0-9974-12	AR0-9974-13
Vial Kit, 9 mm, PP, 300 µL + PTFE/Silicone**	AR0-9991-12	AR0-9991-13
Vial Kit, 9 mm, PP, 300 µL + PTFE/Silicone, preSlit**	AR0-9992-12	AR0-9992-13

*No write-on patch unless otherwise indicated **Vial made of Polypropylene.



Convenience Kits – Assembled 9 mm Screw-Top Vials and Caps with Bonded-In Septa

- Cap and septa attached to vials
- Ready to use
- Save time and labor

Ordering Information

Description	1000/pk
Vial Kit, 9 mm, 2 mL Clear w/ Patch + PTFE/Silicone, preSlit	AR0-9925-13-A
Vial Kit, 9 mm, 2 mL Amber w/ Patch + PTFE/Silicone, preSlit	AR0-9926-13-A

*-A = Assembled



9 mm Screw-Top Vials, 2.0 mL

- Used with most autosamplers, including Agilent®, Thermo Scientific®, Waters® and many others
- Performs as well as crimp or snap vials
- Offers improved cap convenience and accessibility (easy on, easy off)



Need help matching your current vials and caps to Verex? Visit:

www.phenomenex.com/VialFinder

Ordering Information

Description	1000/pk
Vial, 9 mm Screw, 2 mL Clear, No Patch	AR0-3900-13
Vial, 9 mm Screw, 2 mL Amber, No Patch	AR0-3901-13
Vial, 9 mm Screw, 2 mL Clear, w/ Patch	AR0-3910-13
Vial, 9 mm Screw, 2 mL Amber, w/ Patch	AR0-3911-13
Vial, 9 mm Screw, 2 mL Clear, w/ Patch, Silanized	AR0-3960-13



Limited Volume Specialty 9 mm Screw-Top Vials

- Microsampling Qsert and v-Vial center-draining vials
- Qsert fused-insert vials ensure proper seating of the cap
- Extremely low residual volume

Ordering Information

Description	100/pk	1000/pk
Vial, 9 mm Screw, µVial i3 (Qsert) Clear, No Patch	AR0-3920-12	AR0-3920-13
Vial, 9 mm Screw, µVial i3 (Qsert) Amber, No Patch	AR0-3921-12	AR0-3921-13
Vial, 9 mm Screw, v-Vial Clear, No Patch [‡]	AR0-3940-12	AR0-3940-13
Vial, 9 mm Screw, v-Vial Amber, No Patch [‡]	AR0-3941-12	AR0-3941-13
Cert+ Vial, 9 mm, Screw, PP, 300 µL Clear, No Patch**	AR0-39S0-12-C	AR0-39S0-13-C

[‡] 51-Expansion glass. **Vial made of Polypropylene.



Verex Certified Vial Products

Ordering Information

12 x 32 mm, 9 mm (9-425) Screw-Top Vials and Kits (cont'd)

Certified PLUS (Cert+) Mass Spec Quality (MSQ) Caps for 9 mm Screw-Top Vials

- HPLC and LC-MS tested and certified
- For your most demanding analysis; high sensitive detectors
- Locked-fit provides a positive physical septa lock into the cap

Ordering Information

Description	1000/pk
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone septa, blue	ARO-8952-13-M
Cert+ MSQ Cap (pre-assembled), 9 mm, w/ Locked-fit PTFE/Silicone preSlit septa, blue	ARO-8972-13-M



MS Quality. Constructed of virgin polymers, free of siloxanes and trace contaminants, these caps are the cleanest available from Phenomenex.



Certified PLUS (Cert+) Caps for 9 mm Screw-Top Vials

- Certified ultra-clean
- High-grade, preconditioned raw materials
- Finished product inspected and LC-MS tested

Ordering Information

Description	1000/pk
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-8952-13-C
Cert+ Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-13-C
Cert+ Cap (one-piece), 9 mm PE w/ Starburst preSlit, natural*	ARO-89P6-13-C



*Cap is one piece, constructed of ultra-pure, medical-grade polyethylene

Bonded-In Caps for 9 mm Screw-Top Vials

- Bonded septa caps eliminate costly liner/septa fallout
- Prevents rework and wasted productivity with perfect-fit septa
- Saves instrument downtime

Ordering Information

Description	1000/pk
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, black	ARO-8957-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-8952-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, natural	ARO-8956-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, red	ARO-8951-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, green	ARO-8953-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, black	ARO-8977-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-8972-13-B
Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, grey	ARO-8976-13-B



For a more economical alternative, Press-Fit Caps are available. Contact your Phenomenex technical consultant or distributor.



Description	100/pk
Poly/Steel Caps	
Poly/Steel Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone septa, blue	ARO-895P-12-B
Poly/Steel Cap (pre-assembled), 9 mm, w/ Bonded-in PTFE/Silicone preSlit septa, blue	ARO-897P-12-B



Inserts for 9 mm Screw-Top Vials

- For limited volume sampling in 2 mL sample vials
- Virtually no adsorption or pH effects
- Precisely centers and fits vial neck
- Offers maximum opening to sampling needle

Ordering Information^a

Description	500/pk	1000/pk
Insert, 6 mm Diameter, Flat Bottom, 450 µL	ARO-4610-52	—
Insert, 6 mm Diameter, Flat Bottom, 450 µL, Silanized	ARO-4615-52	—
Insert, 6 mm Diameter, Conical Bottom, 350 µL	—	ARO-4620-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 µL	—	ARO-4621-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 µL, Silanized	—	ARO-4623-13

^aApproximate useable volume indicated in µL



Verex Certified Vial Products

Ordering Information

12 x 32 mm, 8 mm (8-425) Screw-Top Vials

8 mm Screw-Top Vials, 2.0 mL

- Standard-neck vials for Agilent® and Shimadzu® autosamplers
- 33-Expansion clear glass (USP Type 1 borosilicate, Class A), 51A amber glass

Ordering Information

Description	1000/pk
Vial, 8 mm Screw, 2 mL Clear, No Patch	ARO-3800-13
Vial, 8 mm Screw, 2 mL Clear, w/ Patch	ARO-3810-13
Vial, 8 mm Screw, 2 mL Amber, No Patch	ARO-3801-13
Vial, 8 mm Screw, 2 mL Amber, w/ Patch	ARO-3811-13



Caps / Closures for 8 mm Screw-Top Vials

- Prevent rework and wasted productivity with perfect fit bonded-in septa
- Fewer trace contaminants for higher sensitivity work

Ordering Information

Description	1000/pk
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone septa, black*	ARO-8857-13-B
Cap (pre-assembled), 8-425, w/ Bonded-in PTFE/Silicone preSlit septa, black*	ARO-8877-13-B
Cap (pre-assembled), 8-425, w/ PTFE/Silicone septa, black**	ARO-8857-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone preSlit septa, black**	ARO-8877-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone septa, w/ flange, yellow	ARO-8834-13
Cap (pre-assembled), 8-425, w/ PTFE/Silicone/PTFE septa, black**	ARO-8867-13
Cap (pre-assembled), 8-425, w/ Open-top cap (w/o septa), black	ARO-8897-13

*-B = Bonded-in Septa

**Press-Fit-Septa



Septa for 8 mm Screw Caps

- Preconditioned and tested
- For caps / closures without septa ([ARO-8897-13](#))

Ordering Information

Description	1000/pk
Septa, 8 mm Diameter, PTFE/Silicone 0.060 in	ARO-6853-13
Septa, 8 mm Diameter, PTFE/Silicone/PTFE 0.060 in	ARO-6863-13
Septa, 8 mm Diameter, PTFE 0.010 in	ARO-6817-13

Inserts for 8 mm Screw-Top Vials

- For limited volume sampling
- Precisely centers and fits vial neck
- Transforms full capacity vials to micro sample vials

Ordering Information^Δ

Description	500/pk	1000/pk
Insert, 5 mm Diameter, Flat Bottom, 200 µL	ARO-4510-52	ARO-4510-13
Insert, 5 mm Diameter, Conical Bottom, 100 µL	—	ARO-4520-13
Insert, 5 mm Diameter, Conical Bottom, w/ bottom spring, 175 µL	—	ARO-4521-13

^ΔApproximate useable volume indicated in µL



Need help matching your current vials and caps to Verex? Visit:

www.phenomenex.com/VialFinder

Verex Certified Vial Products

Ordering Information

12 x 32 mm, 10 mm (10-425) Screw-Top Vials and Kits

Convenience Kits

10 mm Screw-Top Vials and Caps with Bonded-In Septa

- Available in assembled ready to use kits
- Offered with silanization

Ordering Information

Description	100/pk	1000/pk
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, preSlit	—	ARO-9003-13
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, Silanized	ARO-9005-12	—
Vial Kit, 10 mm, 2 mL Clear, No Patch + PTFE/Silicone, preSlit, Silanized	ARO-9006-12	—
Vial Kit, 10 mm, 2 mL Clear, w/ Patch + PTFE/Silicone*	—	ARO-9021-13-A
Vial Kit, 10 mm, 2 mL Amber, w/ Patch + PTFE/Silicone*	—	ARO-9022-13-A

*-A = Assembled



10 mm Screw-Top Vials, 2.0 mL

- Easy-to-fill wide-neck vials

Ordering Information

Description	1000/pk
Vial, 10 mm Screw, 2 mL Clear, No Patch	ARO-3000-13
Vial, 10 mm Screw, 2 mL Clear, w/ Patch	ARO-3010-13
Vial, 10 mm Screw, 2 mL Clear, No Patch, Silanized	ARO-3003-13
Vial, 10 mm Screw, 2 mL Amber, No Patch	ARO-3001-13
Vial, 10 mm Screw, 2 mL Amber, w/ Patch	ARO-3011-13



Limited Volume Specialty 10 mm Screw-Top Vials

- Microsampling Qsert and center-draining vial
- Extremely low residual volume

Ordering Information

Description	100/pk	1000/pk
Vial, 10 mm Screw, µVial i3 (Qsert) Clear, No Patch	ARO-3020-12	ARO-3020-13
Vial, 10 mm Screw, µVial i3 (Qsert) Amber, No Patch	ARO-3021-12	ARO-3021-13
Vial, 10 mm Screw, v-Vial, Clear, No Patch	ARO-3040-12	ARO-3040-13



Caps / Closures for 10 mm Screw-Top Vials

- High quality preconditioned septa
- Bonded-in or press-fit
- Prevent rework and wasted productivity with perfect fit bonded-in septa

Ordering Information

Description	1000/pk
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone septa, black*	ARO-8057-13-B
Cap (pre-assembled), 10-425, w/ Bonded-in PTFE/Silicone preSlit septa, black*	ARO-8077-13-B
Cap (pre-assembled), 10-425, w/ PTFE/Silicone septa, black**	ARO-8057-13
Cap (pre-assembled), 10-425, w/ PTFE/Silicone preSlit septa, black**	ARO-8077-13

*-B = Bonded-in Septa

**Press-fit Septa



Inserts for 10 mm Screw-Top Vials

- For limited volume sampling
- Precisely centers and fits vial neck

Ordering Information^Δ

Description	500/pk	1000/pk
Insert, 6 mm Diameter, Flat Bottom, 450 µL	ARO-4610-52	—
Insert, 6 mm Diameter, Flat Bottom, 450 µL, Silanized	ARO-4615-52	—
Insert, 6 mm Diameter, Conical Bottom, 350 µL	—	ARO-4620-13
Insert, 6 mm Diameter, Conical Bottom, w/ bottom spring, 300 µL	—	ARO-4621-13
Insert, 6 mm Diameter, Conical Bottom w/ bottom spring, 300 µL, Silanized	—	ARO-4623-13

^ΔApproximate useable volume indicated in µL



Verex Certified Vial Products

Ordering Information

15 x 45 mm, 13 mm (13-425) Screw-Top Vials and Kits

Convenience Kits – 13 mm Screw-Top Vials and Caps

- Original Waters® 4 mL WISP™ autosampler vial
- General purpose sample / standard storage vial

Ordering Information

Description	1000/pk
Vial Kit, 4 mL Clear w/ Patch + screw caps 13-425, PTFE/Silicone ^{*Δ}	AR0-9321-13-A
Vial Kit, 4 mL Amber w/Patch + screw caps 13-425, PTFE/Silicone*	AR0-9422-13-A
Vial Kit, 4 mL Amber w/ Patch + screw caps 13-425, PTFE 0.01 in.*	AR0-9392-13-A

*-A = Assembled. Δ = Bonded-In Septa



13 mm Screw-Top Vials, 4.0 mL

Ordering Information

Description	1000/pk
Vial, 4 mL Screw Clear, No Patch	AR0-3300-13
Vial, 4 mL Screw Clear, w/ Patch	AR0-3310-13
Vial, 4 mL Screw Amber, No Patch	AR0-3301-13



Limited Volume Specialty 13 mm Screw-Top Vials

- Center-draining bottom for low-volume samples

Ordering Information

Description	100/pk	1000/pk
Vial, 4 mL Screw High Recovery (CD) Clear, No Patch	AR0-3370-12	AR0-3370-13



Caps / Closures for 13 mm Screw Top Vials

- High quality, pre-conditioned septa
- Available with bonded-in septa

Ordering Information

Description	1000/pk
Cap (pre-assembled), 13-425, w/ Bonded-in PTFE/Silicone septa, black*	AR0-8357-13-B
Cap (pre-assembled), 13-425, w/ PTFE/Silicone septa, black ^{ΔΔ}	AR0-8357-13

*-B = Bonded-in Septa. ΔΔ = Press-fit



Shell Vials

- Original 1 mL and 4 mL shell vials for Waters® 96- and 48-position autosampler trays
- Kits include high-quality borosilicate glass vials with convenient push-in polyethylene cap

Convenience Kits – Shell Vials, 1.0 and 4.0 mL

Ordering Information

Description	1000/pk
Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Clear ^Δ + PE Cap	AR0-3110-13
Shell Vial Kit, 15 x 45 mm, 4 mL Flat Bottom, Clear ^Δ + PE Cap	AR0-3170-13

^Δ 51-Expansion glass.



Convenience Kits – Certified PLUS (Cert+) Shell Vials, 1.0 mL

Ordering Information

Description	200/pk
Cert+ Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Clear + PE Cap	AR0-3110-22-C
Cert+ Shell Vial Kit, 8 x 40 mm, 1 mL Flat Bottom, Amber + PE Cap	AR0-3111-22-C

Verex Certified Vial Products

Ordering Information

Headspace Vials

Screw- and Crimp-Top Headspace Vials

- 10 and 20mL screw- or crimp-top, with round or flat bottom
- Uniform glass thickness ensures even heating
- Lot traceable



Ordering Information

Description	1000/pk
Crimp-Top	
Headspace Vial, 22 x 38 mm, 6 mL Beveled Edge, Flat Bottom, Clear, No Patch	AR0-32F0-13
Headspace Vial, 22 x 38 mm, 6 mL Square Rim, Flat Bottom, Clear, No Patch	AR0-32D0-13
Headspace Vial, 22 x 38 mm, 6 mL Beveled Edge, Round Bottom, Clear, No Patch	AR0-32G0-13
Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Flat Bottom, Clear, No Patch	AR0-3220-13
Headspace Vial, 23 x 46 mm, 10 mL Square Rim, Flat Bottom, Clear, No Patch	AR0-32A0-13
Headspace Vial, 23 x 46 mm, 10 mL Beveled Edge, Round Bottom, Clear, No Patch	AR0-3230-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom, Clear, No Patch	AR0-3260-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom., Clear, No Patch, Silanized	AR0-3263-13
Headspace Vial, 23 x 75 mm, 20 mL Square Rim, Flat Bottom, Clear, No Patch	AR0-3290-13
Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Round Bottom, Clear, No Patch	AR0-3270-13
Screw-Top	
Headspace Vial, 23 x 46 mm, 10 mL 18 mm Screw, Round Bottom, Clear, No Patch	AR0-32H0-13
Headspace Vial, 23 x 46 mm, 10 mL 18 mm Screw, Round Bottom, Amber, No Patch	AR0-32H1-13
Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Clear, No Patch	AR0-3280-13
Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Amber, No Patch	AR0-3281-13



Autosampler Compatibility

Flat Bottom: HP / Agilent, Carlo Erba, Shimadzu

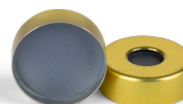
Round Bottom: PerkinElmer, Tekmar, LEAP Technologies, Varian

Headspace Screw- and Crimp-Top Seals / Closures

- Variety of styles for any application
- Magnetic and pressure-release caps available

Ordering Information

Description	1000/pk
Crimp-Top	
Seal, 20 mm Diameter, PTFE/Gray Butyl Rubber, magnetic cap	AR0-52C5-13
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pharmafix Molded Septum, silver	AR0-52D0-13
Seal, 20 mm Diameter, PTFE/Butyl Rubber Pressure Release, Pharmafix Molded Septum, silver	AR0-52B0-13
Seal, 20 mm Diameter, PTFE/Silicone, magnetic cap	AR0-5255-13
Seal, 20 mm Diameter, PTFE/Silicone, silver	AR0-5250-13
Seal, 20 mm Diameter, PTFE/Silicone Pressure Release, silver	AR0-5220-13
Screw-Top	
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Butyl Rubber septa (red/grey)	AR0-814M-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (red/white)	AR0-815M-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (blue/white)	AR0-81AM-13
Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (white/translucent blue)	AR0-81BM-13



Verex Certified Vial Products

Ordering Information

VOA / ASE Assembled Vial Kits and Storage Vial Kits

- Convenience and assembled kits include vials with matching seals / closures
- Clear or amber, with open top or closed caps
- PTFE (Teflon®) faced 0.125 in. silicone septa or PTFE with foam urethane backing
- Lot numbered for traceability



Ordering Information

Description	100/pk	1000/pk
Storage Vial Kits		
Vial Kit, Storage, 20 mL Screw, Clear w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	ARO-9559-12	ARO-9559-13
Vial Kit, Storage, 20 mL Screw, Amber w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	ARO-9551-12	ARO-9551-13
Vial Kit, Storage, 40 mL Screw, Clear w/ Caps 24-400 white PTFE/Foam Urethane, closed top	ARO-9542-12	ARO-9542-13
Vial Kit, Storage, 40 mL Screw, Amber w/Caps 24-400 white PTFE/Foam Urethane, closed top	ARO-9543-12	ARO-9543-13
VOA/ASE Vial Kits		
Vial Kit, VOA/ASE, 40 mL Screw, Clear w/Caps 24-400 white PTFE/Silicone, open top	ARO-9540-12	ARO-9540-13
Vial Kit, VOA/ASE, 40 mL Screw, Clear w/Caps 24-400 white PTFE/Silicone, (assembled), open top	ARO-9540-12-A	ARO-9540-13-A
Vial Kit, VOA/ASE, 40 mL Screw, Amber w/ Caps 24-400 white PTFE/Silicone, open top	ARO-9541-12	—
Vial Kit, VOA/ASE, 20 mL Screw, Clear w/ Caps 24-400 white PTFE/Silicone (assembled)*, open top	ARO-9531-12-E	ARO-9531-13-E

* EPA certified Class 100 vials, caps, and septa are assembled, without processing.

ASE = Dionex Accelerated Solvent Extractor for pesticide analysis.

VOA / ASE Vials and Caps (Separate)

Ordering Information

Description	200/pk
Vials	
Vial, VOA/ASE, 40 mL Screw, Clear, 24-400 Threads (No Cap)	ARO-35V0-22
Vial, VOA/ASE, 40 mL Screw, Amber, 24-400 Threads (No Cap)	ARO-35V1-22
Description	1000/pk
Caps	
Cap (pre-assembled), Screw (24-414), w/ Bonded-in PTFE/Silicone septa, white	ARO-8557-13-B



Learn More. For additional product selection and detailed information visit:

www.phenomenex.com/Verex

Protect your HPLC/UHPLC and GC columns and equipment with Phenex Syringe Filters

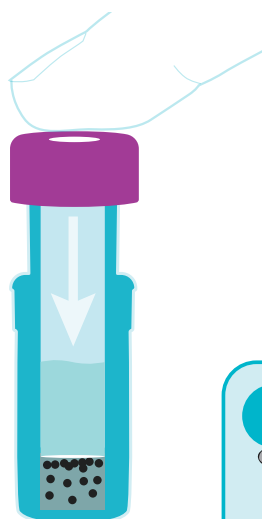
Filtering your sample helps prevent column and frit blockage, undue wear on detectors, pumps, valves, injector seals, and abnormally high operating pressures. Non-filtered samples can also lead to non-reproducible results and significant instrument downtime.

Visit:

www.phenomenex.com/SFfinder

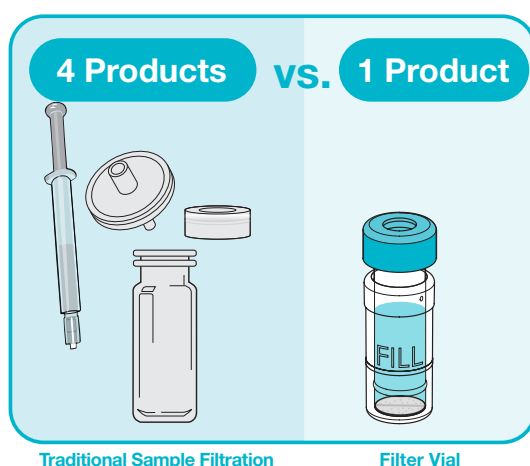


Push to Filter, Ready to Inject



The Most Innovative 4-in-1 Technology

Verex Filter Vials combines syringe filter and vial technology, eliminating the need for separate syringes, syringe filters, vials, and cap/septa, allowing you to reduce lab waste and simplify your workflow.



Traditional Sample Filtration

Filter Vial



Reduce Sample Loss and Contamination

Eliminate multiple transfers with this all-in-one filtration device

Internal Plunger

External Vial

Particulate-Free Sample

The filter membrane is attached to the internal plunger to ensure removal of particulates

Save Your Sample

With a low dead-volume of 30 μ L, more of your sample can be analyzed

Verex Filter Vial Specifications:

- Dimensions: 12 x 32 mm
- Vial material: Polypropylene
- Septa: PTFE/Silicone preSlit
- Filtering capacity: 450 μ L
- Dead-volume: 30 μ L
- Cap: 11 mm snap-top cap

Ordering Information



Description		Pore Size	Part No.	Unit
Verex Filter Vial-RC (Regenerated Cellulose)		0.20 µm	AR0-F103-12	100/pk
		0.45 µm	AR0-F203-12	100/pk
Verex Filter Vial-PTFE (Polytetrafluoroethylene)		0.20 µm	AR0-F102-12	100/pk
		0.45 µm	AR0-F202-12	100/pk
Verex Filter Vial-NY (Nylon)		0.20 µm	AR0-F107-12	100/pk
		0.45 µm	AR0-F207-12	100/pk
Verex Filter Vial-PES (Polyethersulfone)		0.20 µm	AR0-F108-12	100/pk
		0.45 µm	AR0-F208-12	100/pk
Verex Filter Vial-PVDF (Polyvinylidene Fluoride)		0.20 µm	AR0-F106-12	100/pk
		0.45 µm	AR0-F206-12	100/pk

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GUARANTEE

Your happiness is our mission. Take 45 days to try our products. If you are not happy, we'll make it right.
www.phenomenex.com/behappy

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

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

Visit: 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

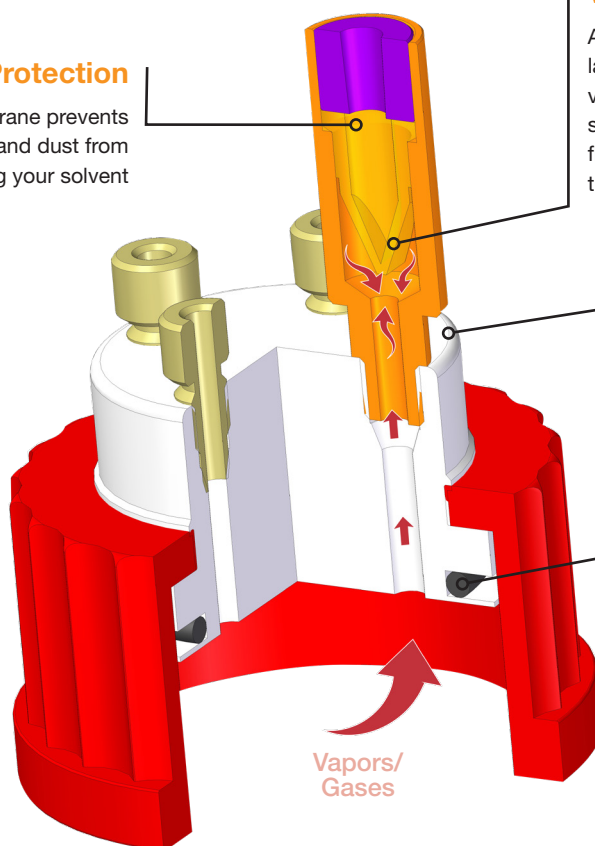
An integrated one-way valve protects lab air quality by preventing hazardous vapors and gases from leaving the solvent container. The valve allows air to flow into the vessel to compensate for the pressure during solvent removal

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

Waste Exhaust Filter

Harmful chemical vapors are safely collected and provide air quality protection

Waste Solvent

It's Easy to Change Solvent Waste Containers

Freely rotating cap body prevents twisting tubes during waste container exchange

Polyethylene foam ring provides excellent seal onto plastic containers



Ordering Information

Starter Kits

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

SecurityCAP Waste Starter Kits	Each
2-port GL/DIN45 Cap and 6-month Exhaust Filter + Barbed connector	AC1-1245
5-port GL/DIN45 Cap and 6-month Exhaust Filter	AC1-1545
5-port DIN51 Cap and 6-month Exhaust Filter	AC1-1551
5-port S61 Cap and 6-month Exhaust Filter	AC1-1561



Replacement Parts

SecurityCAP Mobile Phase Safety Filter	Each	10/pk
6-month Capacity, ¼ in.-28 Threads	AC2-0161	AC2-0961

SecurityCAP Waste Safety Filters	Each	3/pk
6-month Exhaust Filter for SecurityCAP, ¼ in.-28 Threads	AC1-0161	AC1-0361
6-month Exhaust Filter for Wide-port Caps, GL14 Threads	AC1-0162	AC1-0362

SecurityCAP Fittings	Each
for ⅛ in. or 2.0 mm ID Tubing, ¼ in.-28 Threads (POM), blue	AC3-1101
for 2.3-2.6 mm ID Tubing, ¼ in.-28 Threads (POM), white	AC3-1201
for ⅜ in. ID Tubing, ¼ in.-28 Threads (POM), black	AC3-2101

SecurityCAP Connectors	Each
Barbed connector, for 5-8 mm ID Tubing (PTFE), white	AC3-1001
Y-connector for 6-8 mm ID Tubing (POM), white	AC3-1301

SecurityCAP Adapter	Each
Cap Thread Adapter, PTFE, GPI/GL 38 Female to GL45 Male	AC2-1138

SecurityCAP Sealing Plug	Each
¼ in.-28 Threads (POM), white	AC3-2001



Sample Preparation Tools and Resources



Search Hundreds of Applications

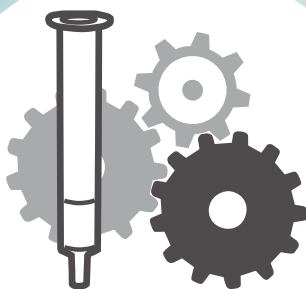


Syringe Filter Finder Tool

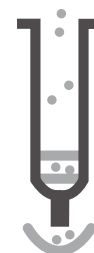


Sample Preparation Support at Your Fingertips

[www.phenomenex.com/
sampleprep](http://www.phenomenex.com/sampleprep)



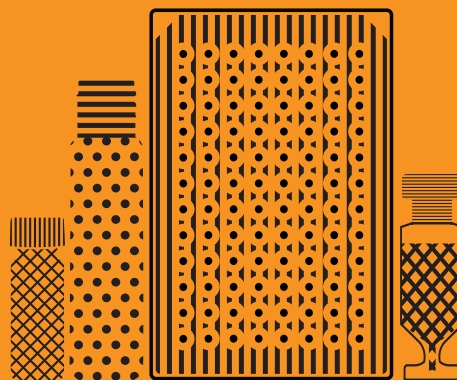
SPE Method Development Tool



Sample Preparation Basics Overview

SAMPLE PREPARATION ACCESSORIES

From Sample Processing to Laboratory Safety



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Clarity OTX is patented by Phenomenex. U.S. Patent No. 7,119,145

Novum is patent pending.

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