

Verex Vials as MEGA TITAN

With MEGA TITAN, your results will be safe from sample loss and extraneous peaks thanks to its 100% defect-free glass, caps, and special packaging. Clean-room packed products ensure particulate- and contamination-free vials and caps suitable for HPLC, UHPLC, and GC analysis.

Sidekick Name:
MEGA TITAN

Trait:
100% defect-free and leak-free.
Likes:
Reproducible results and cleanroom packaging.
Dislikes:
Extraneous peaks, leaks, and sample loss.

Secret Power:
MEGA TITAN has the ability to transform into 3 levels of certification to guarantee pinpoint accuracy! With each level, MEGA TITAN gains more power:
Level 1 – most common applications
Level 2 – low bleed for high sensitivity applications
Level 3 – mass spec quality for ultra-sensitive MS applications

All labs should be power activated at super-sonic speed so MEGA TITAN can be there to save the day!



MEGA TITAN Comes in Many Designs, Suited for Your Ideal Sample

Vial Bottom Designs:					
Flat Bottom	Round Bottom (Headspace)	Tapered Base	Maximum Recovery	High Recovery	
Vial Neck Designs:					
Crimp (Standard & Wide Mouth)	Snap	Screw (8 mm, 9 mm, 10 mm, 13 mm)	Shell	Beveled Edge (Headspace)	Square Rim (Headspace)

Phenex Syringe Filters as THUNDER STRIKE

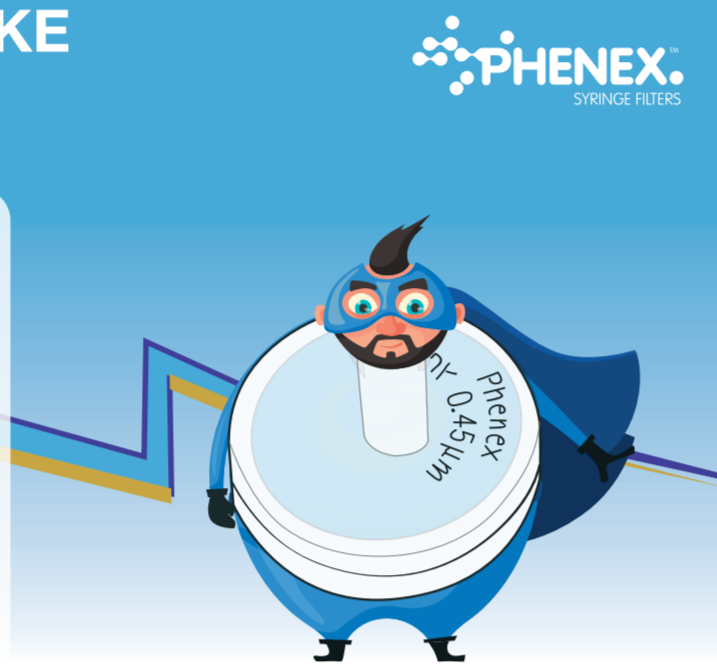
When evil particulates attack and try to kill your columns, THUNDER STRIKE jumps in and cleans up your samples to save the day. With the super speed filtration from THUNDER STRIKE you can rest easy knowing that both your column and system will conquer any separation that comes its way!

Sidekick Name:
THUNDER STRIKE

Trait:
A variety of different membranes to filter any sample.
Likes:
Clean samples, less system downtime, and increased LC/GC column lifetimes.
Dislikes:
Evil particulates.

Secret Power:
THUNDER STRIKE can fight particulates and contamination alone, but also works great in a sample preparation workflow to ensure cleaner results!

Selection of THUNDER STRIKE is based on your unique sample specification and trusting that THUNDER STRIKE will fight for you may be the easiest way to ensure cleaner injections in super speed time.



Select THUNDER STRIKE in Three EASY Steps

1. What is your sample volume?

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

2. What is your LC column ID?

≥ 3 μm	< 3 μm	OR
0.45 μm	0.20 μm	Reverse 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	Protein Analysis/ Biological Samples	Non-Aqueous	Aqueous Mixtures
RC (Regenerated Cellulose)	CA (Carboxylic Acid)	PES (Polyethersulfone)	Hydrophobic/ Strong Acids	Hydrophilic
			PTFE (Polytetrafluoroethylene)	RC (Regenerated Cellulose)

EVERY LAB SUPER HERO NEEDS A SIDEKICK



www.phenomenex.com/MySidekicks

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Phenomenex products are available worldwide. For the distributor in your country/region, contact Phenomenex USA, International Department at international@phenomenex.com

SecurityLINK as THE CLICK

The CLICK's super-accessory power allows her to produce a super-sonic CLICK once a secure column and system connection is complete.

Sidekick Name:
THE CLICK

Trait:
Zero dead-volume column and system connection each and every time.
Likes:
Banishing carryover, band broadening, and peak tailing.
Dislikes:
Over or under tightening that causes column and system port damage or performance issues.

Secret Power:
The genesis of **THE CLICK**'s superpower comes from her built-in zero dead-volume and Torque Limiting Technology. Once the perfect connection has been made through finger tightening, an audible "click" confirms optimum torque has been reached and a secure connection has been achieved!

The CLICK will never let you down with her clicking powers that ensure HPLC/UHPLC performance up to 19,000 psi (1,310 bar). Don't leave your chromatographic end fittings in just anyone's hands!



An Advanced HPLC/UHPLC Fitting with THE CLICK

Fingertight
Easy fingertight installation in a CLICK and up to 19,000 psi.

Click'n Done
Torque Limiting Technology prevents overtightening or undertightening.

Zero Dead-Volume
Sealing technology eliminates extra internal volume.

Tubing Options
Multiple materials and dimensions are available.

Tubing Options:
PEEK®
Stainless Steel
PEEK-Lined Stainless Steel

Presston 1000 as IRON MANIFOLD

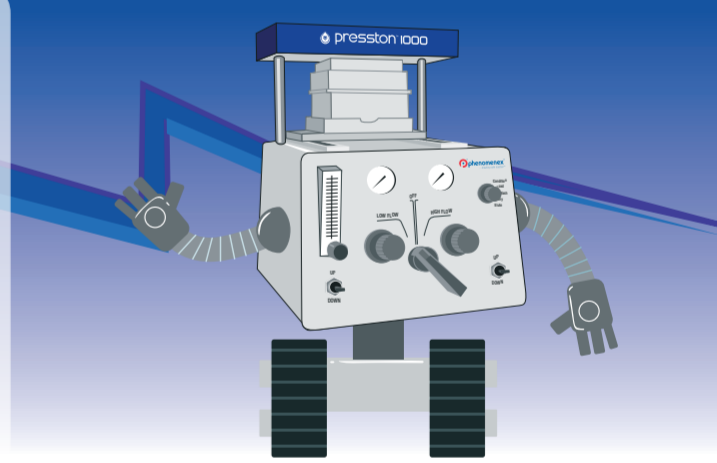
As a pneumatic positive pressure manifold, IRON MANIFOLD goes into uncharted territory where no Presston has gone before... until now.

Sidekick Name:
IRON MANIFOLD

Trait:
96-well plate sample processing.
Likes:
Super-fast and ultra-consistent flow rates.
Dislikes:
High variation well-to-well.

Secret Power:
IRON MANIFOLD ensures enhanced lab safety by requiring two hands to move the manifold shield, providing less manual labor and happy hands!

With a 96-well plate offering, IRON MANIFOLD provides a convenient high throughput option available for labs that need to process multiple extractions at one time, essentially helping 96 different samples as once. Everyone loves a sidekick that can multitask!



Streamline Your 96-Well Plate Processing for Easier Sample Preparation with IRON MANIFOLD

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.

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.

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

Zebtron PLUS Inlet Liners as ULTRA FIX

This sidekick undergoes a unique chemical deactivation treatment that results in a remarkably inert GC inlet liner, optimized for trace and active compound analysis.

Sidekick Name:
ULTRA FIX

Trait:
Superior GC sample protection.
Likes:
Fighting against dirty samples with a unique deactivation process that results in a remarkably inert pathway.
Dislikes:
Ghost and tailing peaks!

Secret Power:
Deactivation: High inert GC inlet liners for superior sample protection.
Packaging:
Easy to install, touchless packaging allows you to protect your analysis and yourself from cuts or breakage.
GC Protection:
Eliminates contamination that may occur during the installation process.

See The Difference: ULTRA FIX vs. Traditional Deactivation and Check How the Liner Geometry Improves Performance



	Injection Type		Primary Challenge	
	Split	Splitless/ Direct	Trace Analytes	Active Compounds
Straight	●	●	●	●
Straight Z-Liner™	●	●	●	●
Single Taper	●	●	●	●
Single Taper with Wool	●	●	●	●
Single Taper Z-Liner	●	●	●	●
Direct Connect	●	●	●	●
Single Baffle	●	●	●	●

Zebtron PLUS Deactivation
Every batch of Zebtron PLUS liners is manufactured with a thick layer of vapor-deposited deactivation for the highest inertness. They are then tested for activity using both EPA Methods 8081 and 8270 to ensure the highest level of sample protection possible.

Traditional Deactivation
Traditionally, liners have only been passivated with thin deactivation layers - and sometimes have not at all - putting your analytes at risk of adsorption or degradation!

SecurityGuard Cartridge Systems as GUARD KNIGHT & GUARD KNIGHT ULTRA

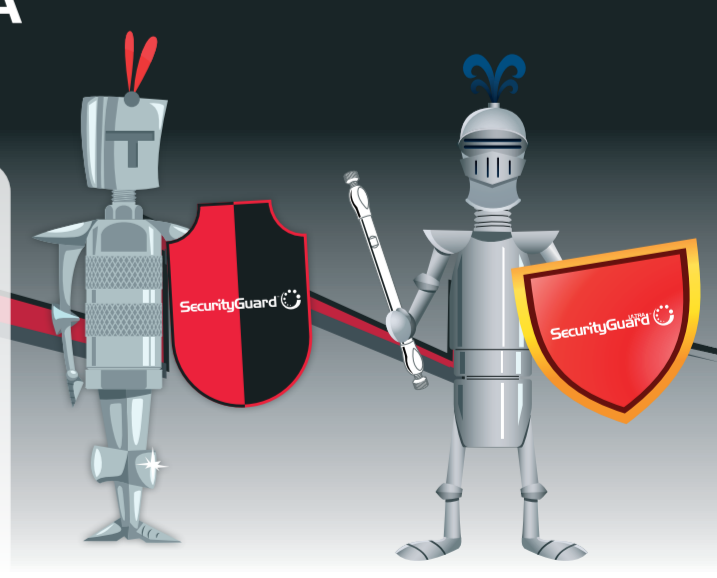
These sidekicks were designed to provide universal column protection effectively (and inexpensively) by protecting your valuable columns from the damaging effects of chemical contaminants without altering your chromatographic results.

Sidekick Name:
GUARD KNIGHT & GUARD KNIGHT ULTRA

Trait:
Universal column protection.
Likes:
Increased UHPLC/HPLC/PPRP lifetimes, better column performance, and more reproducible chromatography.
Dislikes:
Chemical contaminants or microparticulates.

Secret Power:
GUARD KNIGHT and GUARD KNIGHT ULTRA are compatible with virtually all vendors columns.

The easiest way to extend column performance is to remove chemical contaminants and particulates with GUARD KNIGHT or GUARD KNIGHT ULTRA before they reach your column and degrade your chromatography!



Easily Install GUARD KNIGHT or GUARD KNIGHT ULTRA's Protection System Into Your Favorite Column

The floating outlet automatically adjusts to the precise port depth of virtually any analytical HPLC column. This ensures a low-dead volume, leak-free connection, without the use of unions or adapters.

Compatible UHPLC Fittings

Compatible HPLC Fittings

PHENOMENEX SIDEKICKS WILL MAKE YOUR LIFE EASIER!

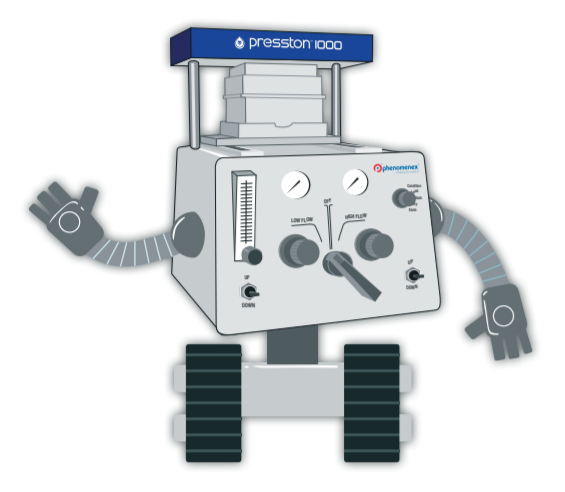


Popular Verex Vial Products

	Screw-Tops				Snap-Tops				Crimp-Tops				Inserts				
Clear	ARO-3900-13	ARO-3910-13	ARO-3940-13	ARO-3920-13	ARO-3610-13	ARO-3630-13	ARO-3640-13	ARO-3700-13	ARO-3710-13	ARO-3725-13	ARO-4521-13	ARO-4621-13	ARO-4620-13				
Amber	ARO-3901-13	ARO-3911-13	ARO-3941-13	ARO-3921-13	ARO-3611-13	ARO-3631-13	ARO-3641-13	ARO-3711-13	ARO-3721-13								
	9 mm Screw Top, 2 mL, No Patch, 1000/pk	9 mm Screw Top, 2 mL, w/ Patch, 1000/pk	9 mm Screw Top, v-Vial, 1000/pk	9 mm Screw Top, v-Vial, 1000/pk	Snap Top, 2 mL, w/ Patch, 1000/pk	Snap Top, 2 mL, v-Vial, 1000/pk	Snap Top, v-Vial, No Patch, 1000/pk	Crimp Top, 2 mL, Wide Mouth, No Patch, 1000/pk	Crimp Top, 2 mL, Standard Opening, w/ Patch, 1000/pk	Crimp Top, v-Vial (3), w/ Patch, 1000/pk	Insert, 5 mm Dia., 175 µL, Clear 51, Conical Bottom, w/ bottom spring, 1000/pk	Insert, 6 mm Dia., 300 µL, Clear 51, Conical Bottom, w/ bottom spring, 1000/pk	Insert, 6 mm Dia., 350 µL, Clear 51, Conical Bottom, No Patch, 1000/pk				

Additional part numbers are available online!

Presston 1000 Positive Pressure Manifold



Description	Part Number	Qty
Manifold Presston 1000 Positive Pressure Manifold, 96-Well Plate, complete assembly	AH1-7033	1

Phenomenex warrants the Presston 1000 will be free of defects in materials and workmanship under normal installation, use, and maintenance for a period of 12 months following delivery. Please visit www.phenomenex.com/Presstonwarranty for complete warranty information.



MEGA TITAN

SecurityLINK Fittings

PEEKsil™

Part No. (ea)	ID (µm)	Length (mm)
AJ1-2111	25	100
AJ1-2121	25	150
AJ1-2141	25	250
AJ1-2151	25	300
AJ1-2171	25	500
AJ1-2191	25	750
AJ1-21A1	25	1000
AJ1-2211	50	100
AJ1-2221	50	150
AJ1-2231	50	200
AJ1-2241	50	250
AJ1-2251	50	300
AJ1-2271	50	500
AJ1-2291	50	750
AJ1-22A1	50	1000
AJ1-2321	75	150
AJ1-2341	75	250
AJ1-2371	75	500
AJ1-23A1	75	1000
AJ1-2411	100	100
AJ1-2421	100	150
AJ1-2441	100	250
AJ1-2471	100	500
AJ1-24A1	100	1000

Stainless Steel

Part No. (ea)	ID (µm)	Length (mm)
AJ1-1421	100	150
AJ1-1441	100	250
AJ1-1461	100	350
AJ1-1471	100	500
AJ1-1481	100	600
AJ1-1521	125	150
AJ1-1541	125	250
AJ1-1561	125	350
AJ1-1571	125	500
AJ1-1581	125	600
AJ1-1621	254	150
AJ1-1641	254	250
AJ1-1661	254	350
AJ1-1671	254	500
AJ1-1681	254	600

The "CLICK" Feedback indicates the SecurityLINK Connection is Secure! This Prevents Overtightening & Saves Your Column.

PEEK-Lined Stainless Steel

Part No. (ea)	ID (µm)	Length (mm)
AJ1-3121	25	150
AJ1-3141	25	250
AJ1-3161	25	350
AJ1-3171	25	500
AJ1-3181	25	600
AJ1-3221	50	150
AJ1-3241	50	250
AJ1-3261	50	350
AJ1-3271	50	500
AJ1-3281	50	600
AJ1-3321	75	150
AJ1-3341	75	250
AJ1-3361	75	350
AJ1-3371	75	500
AJ1-3381	75	600
AJ1-3421	100	150
AJ1-3441	100	250
AJ1-3461	100	350
AJ1-3471	100	500
AJ1-3481	100	600

PEEKsil

Part No. (ea)	ID (µm)	Length (mm)
AJ1-2224	50	150
AJ1-2274	50	500
AJ1-2284	50	750
AJ1-2284	50	1000

Phenomenex Column / Tubing ID Recommendation Chart

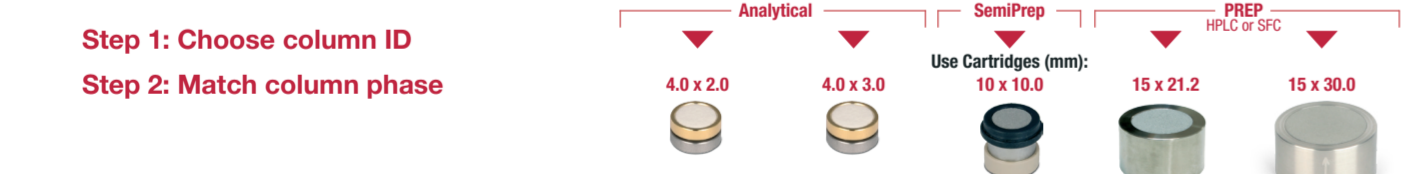
	Column ID	Tubing ID
Nano	0.05-0.1 mm (50µm-100µm)	25µm
	0.3-0.5 mm (300µm-500µm)	50µm
Microbore	1 mm	50µm-75µm
	2.1 mm	100µm
	3 mm	100µm
	4.6 mm	100µm
Analytical	—	100µm
	—	120µm
Semi-Prep	9.0-16.0 mm	254µm



THE CLICK

SecurityGuard Universal Guard Cartridges

SecurityGuard Cartridges and Holders

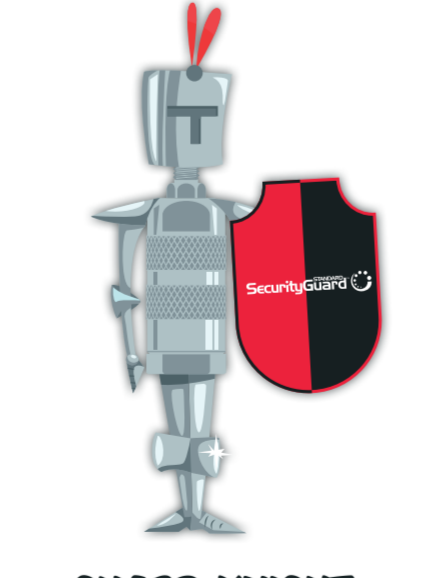


Material	Description	pH Stability	10pk	10pk	3pk	ea	ea
C18	(ODS, Octadecyl)	1.5-10	AJO-4286	AJO-4287	AJO-7221	AJO-7839	AJO-9301
C12	(Dodecyl)	1.5-10	AJO-6073	AJO-6074	AJO-7275	AJO-7842	AJO-9304
MS	(MOS, Octyl)	1.5-10	AJO-4289	AJO-4290	AJO-7222	AJO-7840	AJO-9302
C5	(Pentyl)	1.5-10	AJO-4292	AJO-4293	AJO-7372	—	—
C1	(TMS)	2-9	—	AJO-4299	—	—	—
Silica	—	—	AJO-4347	AJO-4348	AJO-7223	AJO-7229	AJO-9312
HILIC	(HILIC)	1.5-8	AJO-8328	AJO-8329	AJO-8902	—	—
HW	(Amine, Aminopropyl)	1.5-11	AJO-4301	AJO-4302	AJO-7364	AJO-8162	AJO-9309
CN	(Cyano, Cyanopropyl)	2-7.5	AJO-4304	AJO-4305	AJO-7313	AJO-8220	AJO-9311
Phenyl	(Phenylhexyl)	1.5-10	AJO-4350	AJO-4351	AJO-7314	AJO-7841	AJO-9303
PPH2	(Pentafluorophenyl)	1.5-8	AJO-8326	AJO-8327	AJO-8376	AJO-8377	AJO-9378
SCX	(SA, Strong Cation Exchanger)	2.5-7.5	AJO-4307	AJO-4308	—	—	AJO-8596
SSX	(SB, Strong Anion Exchanger)	2.5-7.5	—	AJO-4311	—	—	—
RP-1	(Reversed Phase - Polymer)	0-14	—	AJO-5809	AJO-7368	AJO-8358	—
Polar-RP	(Ether-linked Phenyl)	1.5-7	AJO-6075	AJO-6076	AJO-7276	AJO-7845	—
Fusion-RP	(C18 Polar Embedded)	1.5-10	AJO-7556	AJO-7557	AJO-7558	AJO-7844	—
AO C18	(Polar Endcapped C18)	1.5-7.5	AJO-7511	AJO-7512	AJO-7843	AJO-9305	—
Gemini [®] HX C18	(C18 Twin-Tek [™] Technology)	1-12	AJO-8367	AJO-8368	AJO-9370	AJO-9371	—
Gemini C18	(C18 Twin-Tek [™] Technology)	1-12	AJO-7596	AJO-7597	AJO-7598	AJO-7846	AJO-9308
Gemini C6-Phenyl	(C6-Phenyl Twin-Tek [™] Technology)	1-12	AJO-7914	AJO-7915	AJO-9156	AJO-9157	AJO-9158
Luna [®] Omega Polar C18	(Polar Functional C18)	1.5-10	AJO-7600	AJO-7601	AJO-9519	AJO-9603	AJO-7604
Luna Omega PS C18	(Mixed-Mode C18)	1.5-10	AJO-7605	AJO-7606	AJO-9520	AJO-7608	AJO-7609
Cartridges for C18			10pk	10pk	3pk	ea	ea
Lux H-Amlyose-1	Amlyose tris (3, 5-dimethylphenyl)carbamate	2-9	—	AJO-8641	AJO-8642	AJO-8643	AJO-8644
Lux H-Amlyose-3	Amlyose tris (3-chloro-5-methylphenyl)carbamate	2-9	AJO-8651	AJO-8650	AJO-8652	AJO-8653	AJO-8654
Lux H-Cellulose-5	Cellulose tris (3, 5-dichlorophenyl)carbamate	2-9	AJO-8631	AJO-8632	AJO-8633	AJO-8634	—
Lux Cellulose-1	Cellulose tris (2, 5-dimethylphenyl)carbamate	2-9	AJO-8402	AJO-8403	AJO-8404	AJO-8405	AJO-8406
Lux Cellulose-2	Cellulose tris (3-chloro-4-methylphenyl)carbamate	2-9	AJO-8398	AJO-8396	AJO-8399	AJO-8400	—
Lux Cellulose-3	Cellulose tris (4-methylbenzoate)	2-9	AJO-8621	AJO-8622	AJO-8623	AJO-8624	AJO-8625
Lux Cellulose-4	Cellulose tris (4-chloro-3-methylphenyl)carbamate	2-9	AJO-8626	AJO-8627	AJO-8628	AJO-8629	AJO-8630
Lux Amlyose-1	Amlyose tris (3, 5-dimethylphenyl)carbamate	2-9	AJO-9337	AJO-9336	AJO-9344	AJO-9338	AJO-9339
Lux Amlyose-2	Amlyose tris (5-chloro-2-methylphenyl)carbamate	2-9	AJO-8471	AJO-8470	AJO-8472	AJO-8473	—
Lux AMP	—	1-11.5	AJO-8475	AJO-8476	—	—	—

HPLC Guard Cartridge Holders (one-time purchase only)	/kit	/holder	/kit	/kit
Reusable Holder	KJO-4282	AJO-9281	AJO-9223	AJO-8277

SFC Guard Cartridge Holders	/kit	/holder	/kit	/kit
Reusable Holder	KJO-4282	AJO-9281	AJO-9617	AJO-8618

Additional part numbers are available online!



GUARD KNIGHT



GUARD KNIGHT ULTRA

Phenex Syringe Filters

Membrane Type/Size	4mm Diameter for ≤ 2 mL sample volumes		15mm Diameter for 2-10 mL sample volumes		25-30mm Diameter for 10-100 mL sample volumes	
	Part No.	Unit	Part No.	Unit	Part No.	Unit
0.2µm						
Phenex-FC (Regenerated Cellulose)	AFO-3203-12	100/pk	AFO-2203-12	100/pk	AFO-8203-12	100/pk
Phenex-PES ¹	AFO-3203-52	500/pk	AFO-2203-52	500/pk	AFO-8203-52	500/pk
(Polyethersulfone)	—	—	—	—	AFO-8208-52	500/pk
Phenex-PTFE (Polytetrafluoroethylene)	AFO-3202-12	100/pk	AFO-2202-12	100/pk	AFO-1202-12	100/pk
Phenex-NY (Nylon)	AFO-3202-52	500/pk	AFO-2202-52	500/pk	AFO-1202-52	500/pk
Phenex-GF/NY ¹ (Glass Fiber/Nylon)	AF3-3207-12	100/pk	AF3-2207-12	100/pk	AFO-1207-12	100/pk
Phenex-PVDF (Polyvinylidene Fluoride)	AF3-3207-52	500/pk	AF3-2207-52	500/pk	AFO-1207-52	500/pk
Phenex-GF/CA ^{1,2,3} (Glass Fiber/Cellulose Acetate)	—	—	AF6-5106-12	100/pk	AFO-1447-12	100/pk
Phenex-GF/CA ^{1,2,3} (Glass Fiber/Cellulose Acetate)	—	—	AF6-5106-52	500/pk	AFO-1447-52	500/pk
0.3µm						
Phenex-FC (Regenerated Cellulose)	AFO-3103-12	100/pk	AFO-2103-12	100/pk	AFO-8103-12	100/pk
Phenex-PES ¹	AFO-3103-52	500/pk	AFO-2103-52	500/pk	AFO-8103-52	500/pk
(Polyethersulfone)	—	—	—	—	AFO-8108-52	500/pk
Phenex-PTFE	AFO-3102-12	100/pk	AFO-2102-12	100/pk	AFO-1102-12	100/pk
(Polytetrafluoroethylene)	AFO-3102-52	500/pk	AFO-2102-52	500/pk	AFO-1102-52	500/pk
Phenex-NY	AF3-3107-12	100/pk	AF3-2107-12	100/pk	AFO-1107-12	100/pk
(Nylon)	AF3-3107-52	500/pk	AF3-2107-52	500/pk	AFO-1107-52	500/pk
Phenex-GF/NY ¹ (Glass Fiber/Nylon)	—	—	AF6-5106-12	100/pk	AFO-1847-12	100/pk
Phenex-PVDF (Polyvinylidene Fluoride)	—	—	AF6-5106-52	500/pk	AFO-1847-52	500/pk
Phenex-GF/CA ^{1,2,3} (Glass Fiber/Cellulose Acetate)	—	—	AF6-5106-12	100/pk	AFO-8606-12	100/pk
Phenex-GF/CA ^{1,2,3} (Glass Fiber/Cellulose Acetate)	—	—	AF6-5106-52	500/pk	AFO-8606-52	500/pk
Phenex-GF ^{1,2} (Glass Fiber)	—	—	AF6-5106-12	100/pk	AFO-8809-12	100/pk
Phenex-GF ^{1,2} (Glass Fiber)	—	—	AF6-5106-52	500/pk	AFO-8809-52	500/pk

1. Glass fiber filters are 28mm diameter and made of borosilicate. They will remove 90% of all particles > 1.2µm. Also known as Cynoflex[®].
2. Housing material is methacrylate butadiene styrene (MBS) polymerized.
3. Cellulose acetate is surfactant-free.

Zebron PLUS Inlet Liners

For Agilent [®] or Thermo Scientific [®] GC Systems	Description	Application	Dimensions ID x L (mm)	Part No.	Unit
Direct Connect		Trace analysis	4 x 78.5	AG2-0A50-01	Ea
				AG2-0A50-05	5/pk
				AG2-0A50-25	25/pk
Single Taper		Pesticides	4 x 78.5	AG2-0A10-01	Ea
				AG2-0A10-05	5/pk
				AG2-0A10-25	25/pk
Single Taper Z-Liner™		Semi-volatiles	4 x 78.5	AG2-0A13-01	Ea
				AG2-0A13-05	5/pk
				AG2-0A13-25	25/pk
Single Taper with Wool		Semi-volatiles	4 x 78.5	AG2-0A11-01	Ea
				AG2-0A11-05	5/pk
				AG2-0A11-25	25/pk
Straight		Volatiles	4 x 92	AG2-0A00-01	Ea
				AG2-0A00-05	5/pk
				AG2-0A00-25	25/pk</