

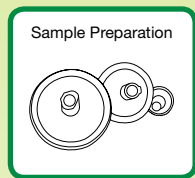
# CANNABIS TESTING ACCESSORIES

HPLC/GC/Sample Prep

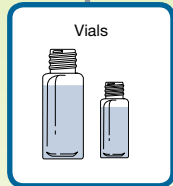


 **phenomenex**<sup>®</sup>  
...breaking with tradition<sup>SM</sup>

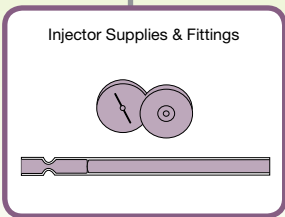
# Popular Accessories for Cannabis Testing



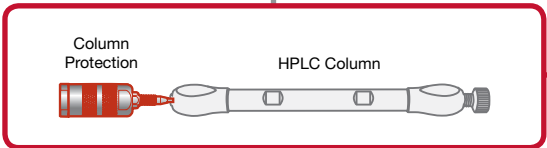
Sample Preparation



Vials

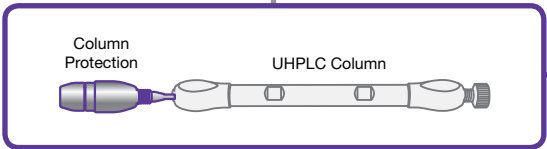


Injector Supplies & Fittings



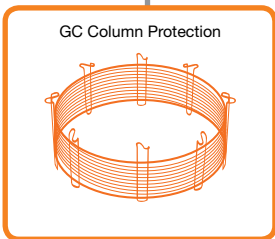
Column Protection

HPLC Column



Column Protection

UHPLC Column



GC Column Protection

## Sample Preparation

### Phenex™ Syringe Filters

Protect injector valves, prevent rework, and reduce downtime

## Vials

### Verex™ Vials

Certified clean vials for more accurate results

## Injector Supplies & Fittings

### Easy Seals™ GC Inlet Base Seals

Easy, washerless, and leak tight GC inlet base seals

### Zebtron PLUS GC Inlet Liners

Unique deactivation process results in a remarkably inert pathway that prevents sample adsorption and degradation for active compounds.

### HPLC/UHPLC Core-Shell Performance Enhancement Kits

Optimize method efficiency with quick, easy connections

## HPLC Column Protection

### SecurityGuard™ Standard Column Protection

Remove particulates and contaminants, increase column lifetime of all non core-shell and  $\geq 3 \mu\text{m}$  particle columns

## UHPLC Column Protection

### SecurityGuard ULTRA Column Protection

Extends all core-shell and/or  $< 3 \mu\text{m}$  particle column lifetimes ( $< 20,000 \text{ psi} / 1,378 \text{ bar}$ )

## GC Column Protection

### Zebtron™ Z-Guard™ GC Column Protection

Extend column lifetime and improve early eluting peak shapes

## Phenex™ Syringe Filters

- Increase column life and save money!
- Ensure more accurate, consistent results

	4 mm diameter for ≤ 2 mL sample volumes			15 mm diameter for 2 – 10 mL sample volumes			25 - 28 mm diameter for 10 – 100 mL sample volumes		
	Part No.		Unit	Part No.		Unit	Part No.		Unit
	0.20 µm	0.45 µm		0.20 µm	0.45 µm		0.20 µm	0.45 µm	
<b>Phenex-RC</b> (Regenerated Cellulose)	AF0-3203-12	AF0-3103-12	100/pk	AF0-2203-12	AF0-2103-12	100/pk	AF0-8203-12 <sup>1</sup>	AF0-8103-12 <sup>1</sup>	100/pk
	AF0-3203-52	AF0-3103-52	500/pk	AF0-2203-52	AF0-2103-52	500/pk	AF0-8203-52 <sup>1</sup>	AF0-8103-52 <sup>1</sup>	500/pk
<b>Phenex-PTFE</b> <sup>2</sup> (Polytetrafluoroethylene)	AF0-3202-12	AF0-3102-12	100/pk	AF0-2202-12	AF0-2102-12	100/pk	AF0-1202-12	AF0-1102-12	100/pk
	AF0-3202-52	AF0-3102-52	500/pk	AF0-2202-52	AF0-2102-52	500/pk	AF0-1202-52	AF0-1102-52	500/pk
<b>Phenex-NY</b> (Nylon)	AF3-3207-12	AF3-3107-12	100/pk	AF0-2207-12	AF0-2107-12	100/pk	AF0-1207-12	AF0-1107-12	100/pk
	AF3-3207-52	AF3-3107-52	500/pk	AF0-2207-52	AF0-2107-52	500/pk	AF0-1207-52	AF0-1107-52	500/pk
<b>Phenex-GF/NY</b> (Glass Fiber / Nylon)	An integrated syringe filter unit containing an inert borosilicate glass fiber prefilter and a Nylon (NY) membrane. Excellent for filtration of particle-laden samples. Use less hand pressure to filter even the most difficult samples. Outlet connection is luer lock.						AF0-1A47-12 <sup>3</sup>	AF0-1B47-12 <sup>3</sup>	100/pk
							AF0-1A47-52 <sup>3</sup>	AF0-1B47-52 <sup>3</sup>	500/pk
<b>Phenex-PVDF</b> (Polyvinylidene Fluoride)	-			AF6-5206-12 <sup>4</sup>	AF6-5106-12 <sup>4</sup>	100/pk	AF6-6206-12	AF6-6106-12	100/pk
	-			AF6-5206-52 <sup>4</sup>	AF6-5106-52 <sup>4</sup>	500/pk	AF6-6206-52	AF6-6106-52	500/pk
<b>Phenex-GF/PVDF</b> (Glass Fiber / Polyvinylidene Fluoride)	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.						AF6-6C06-12	AF6-6D06-12	100/pk
							AF6-6C06-52	AF6-6D06-52	500/pk



1. 26 mm diameter.
2. Hydrophobic membrane. Can be made hydrophilic by pre-wetting with IPA.
3. 28 mm diameter.
4. 17 mm diameter

### Syringe Filter Finder

3-step tool designed to help you find the appropriate syringe filter to help you successfully remove particulates from your sample matrix.

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



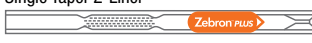
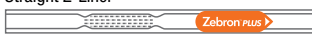
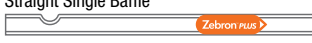
## Easy Seals™ GC Inlet Base Seals

- Soft surface eliminates need for washer
- Increase column lifetime with tight seal

Part No.	Description	Unit
AG0-8619	Easy Seal Inlet Base Seal, Gold Plated, for Agilent GCs	2/pk
AG0-8620	Easy Seal Inlet Base Seal, Gold Plated, for Agilent GCs	10/pk



## Zebron PLUS GC Inlet Liners for Agilent® Systems

Description	Applications	Dimensions ID x L (mm)	Unit	Part No.
Single Taper with Wool 	Semi-volatiles	4 x 78.5	5/pk 25/pk	AG2-0A11-05 AG2-0A11-25
Single Taper 	Pesticides	4 x 78.5	5/pk 25/pk	AG2-0A10-05 AG2-0A10-25
Single Taper Z-Liner™ 	Semi-volatiles Dirty samples	4 x 78.5	5/pk 25/pk	AG2-0A13-05 AG2-0A13-25
Straight Z-Liner 	Dirty samples Volatiles High initial oven temperatures	4 x 78.5	5/pk	AG2-0A03-05
Straight Single Baffle 	Semi-volatiles Pesticides	1.8 x 71	5/pk	AG2-1F06-05

## HPLC / UHPLC Core-Shell Performance Enhancement Kits

- Increase method efficiency, resolution, and detection
- Improve results for sensitive and demanding applications

Part No.	Description	Unit
AQ0-8892	Core-Shell Performance Enhancement Kit, Includes: PEEKsil™ Tubing, Fittings and Tool*	Ea
<b>*Kit AQ0-8892 includes the following components:</b>		<b>Kit Quantity</b>
	PEEKsil Tubing 0.100 mm ID x 1/16 in. OD x 20 cm L, Red	2/pk
	PEEKsil Tubing 0.100 mm ID x 1/16 in. OD x 10 cm L, Red	Ea
	Sure-Lok™ High Pressure PEEK 1-Pc Nut, 10-32, for 1/16 in. Tubing	10/pk
	Sure-Lok Fitting Tightening Tool, Aluminum	Ea



## Zebtron™ Z-Guard™ GC Column Protection

- Improve separation and peak shapes (especially early elutors)
- Extend column lifetime by preventing stationary phase damage

ID (mm)	Description	Part No.	
		5 Meter	10 Meter
0.25	Guard Column	7AG-G000-00-GZ0	7CG-G000-00-GZ0
	Guard Column Kit	7AG-G000-00-GZK	7CG-G000-00-GZK
0.32	Guard Column	7AM-G000-00-GZ0	7CM-G000-00-GZ0
	Guard Column Kit	7AM-G000-00-GZK	7CM-G000-00-GZK
0.53	Guard Column	7AK-G000-00-GZ0	7CK-G000-00-GZ0
	Guard Column Kit	7AK-G000-00-GZK	7CK-G000-00-GZK

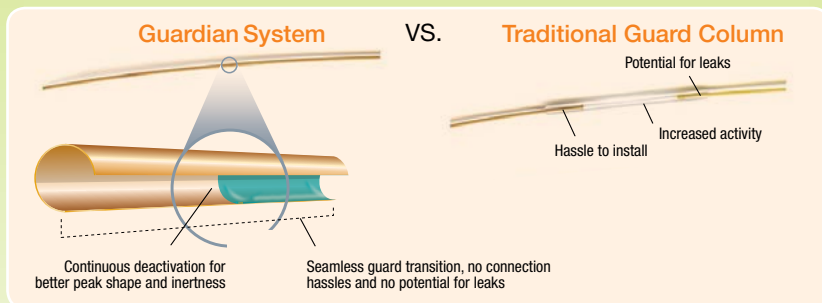


## Zebtron Guardian™ Integrated Guard Columns

**Built-In Column Protection: No Leaks, No Worries!**

- Eliminate the potential for leaks
- Extend column life

View all options at [www.phenomenex.com/GC](http://www.phenomenex.com/GC)



## SecurityGuard™ Standard and PREP Column Protection\*

- Effectively removes both contaminants and particulates to increase column lifetime
- Prevents micro-particulates and chemical contaminants from damaging your column and detector

			Choose your HPLC Column ID (mm)				
Material	Description	pH Stability	2.0 - 3.0	3.2 - 8.0	9.0 - 16.0	18.0 - 29.0	30.0 - 40.0
			Analytical	SemiPrep	Prep		
Cartridges for General Purpose			10/pk	10/pk	3/pk	Ea	Ea
C18	(ODS, Octadecyl)	1.5 - 10	AJO-4286	AJO-4287	AJO-7221	AJO-7839	AJO-8301
C8	(MOS, Octyl)	1.5 - 10	AJO-4289	AJO-4290	AJO-7222	AJO-7840	AJO-8302
Silica	—	—	AJO-4347	AJO-4348	AJO-7223	AJO-7229	AJO-8312
HILIC	HILIC	1.5 - 8	AJO-8328	AJO-8329	AJO-8902	—	—
NH <sub>2</sub>	(Amino, Aminopropyl)	1.5 - 11	AJO-4301	AJO-4302	AJO-7364	AJO-8162	AJO-8309
CN	(Cyano, Cyanopropyl)	2 - 7.5	AJO-4304	AJO-4305	AJO-7313	AJO-8220	AJO-8311
Phenyl	(Phenylhexyl)	1.5 - 10	AJO-4350	AJO-4351	AJO-7314	AJO-7841	AJO-8303
PPF(2)	Pentafluorophenyl	1.5 - 8	AJO-8326	AJO-8327	AJO-8376	AJO-8377	AJO-8378
Polar-RP	(Ether-linked Phenyl)	1.5 - 7	AJO-6075	AJO-6076	AJO-7276	AJO-7845	AJO-8307
Fusion-RP	(C18 Polar Embedded)	1.5 - 10	AJO-7556	AJO-7557	AJO-7558	AJO-7844	AJO-8306
Gemini® NX-C18	(C18 TWIN-NX™ Technology)	1 - 12	AJO-8367	AJO-8368	AJO-8369	AJO-8370	AJO-8371
Gemini C18	(C18 TWIN-NX™ Technology)	1 - 12	AJO-7596	AJO-7597	AJO-7598	AJO-7846	AJO-8308
Gemini C6-Phenyl	(C6-Phenyl TWIN Technology)	1 - 12	AJO-7914	AJO-7915	AJO-9156	AJO-9157	AJO-9158
Luna® Omega Polar C18	(Polar Function C18)	1.5 - 10	AJO-7600	AJO-7601	AJO-9519	AJO-7603	AJO-7604
Guard Cartridge Holders (one-time purchase only)			/kit	/holder	/kit	/kit	
*For additional guard column phases see <a href="http://www.phenomenex.com/securityguard">www.phenomenex.com/securityguard</a>			KJO-4282	AJO-9281	AJO-8223	AJO-8277	

## SecurityGuard ULTRA Column Protection\*\*

- Protects your columns and detectors from micro-particulates in the sample, solvent, or instrument
- Improve your UHPLC column lifetime



Part No.	Description	Unit
<b>Cartridges for 4.6 mm ID UHPLC columns</b>		
AJO-8768	C18 (ODS, Octadecyl) with 1.5 - 8.5 * pH stability	3/pk
AJO-9320	F5 (Pentafluorophenyl) with 1.5 - 8.5 pH stability	3/pk
AJO-8770	C8 (MOS, Octyl) with 1.5 - 8.5 * pH stability	3/pk
AJO-8774	Phenyl (Phenylhexyl) with 1.5 - 8.5 * pH stability	3/pk
AJO-8772	HILIC (HILIC) with 2.0 - 7.5 pH stability	3/pk
<b>Holder</b>		
AJO-9000	SecurityGuard ULTRA Cartridge Holder	Ea

\* pH stable 1.5 - 8.5 under gradient conditions. pH stable 1.5 - 10 under isocratic conditions

\*\*For additional guard column phases see [www.phenomenex.com/securityguardultra](http://www.phenomenex.com/securityguardultra)



If Phenomenex products in this brochure do not provide at least an equivalent separation as compared to other products of the same phase and dimensions, return the product with comparative data within 45 days for a FULL REFUND.

## Verex™ Assembled Vial Kits and Storage Vial Kits

- Clear or amber, with open top or closed caps
- PTFE (Teflon®) faced 0.125 in. silicone septa or PTFE with foam urethane backing

Part No.	Description	Unit
ARO-9540-12	VOA/ASE 40 mL Screw, Clear w/ Caps 24-400 white PTFE/Silicone, open top	100/pk
ARO-9540-12-A	VOA/ASE 40 mL Screw, Clear w/ Caps 24-400 white PTFE/Silicone, (assembled), open top	100/pk
ARO-9551-12	Storage, 20 mL Screw, Amber w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	100/pk
ARO-9559-12	Storage, 20 mL Screw, Clear w/ Caps 24-400 white PTFE/Foam Urethane liner, closed top	100/pk

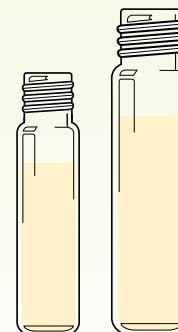
## Verex Vials and Caps (Separate)

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



## Headspace Vials - Screw-Top and Crimp-Top Headspace Vials

Part No.	Description	Unit
<b>Crimp-Top</b>		
ARO-3260-13	Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Flat Bottom, Clear, No Patch	1000/pk
ARO-3263-13	Headspace Vial, 23 x 75 mm, 20 mL Beveled Rim, Flat Bottom., Clear, No Patch, Silanized	1000/pk
ARO-3290-13	Headspace Vial, 23 x 75 mm, 20 mL Square Rim, Flat Bottom, Clear, No Patch	1000/pk
ARO-3270-13	Headspace Vial, 23 x 75 mm, 20 mL Beveled Edge, Round Bottom, Clear, No Patch	1000/pk
<b>Screw-Top</b>		
ARO-3280-13	Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Clear, No Patch	1000/pk
ARO-3281-13	Headspace Vial, 23 x 75 mm, 20 mL 18 mm Screw, Round Bottom, Amber, No Patch	1000/pk



## Headspace Screw-Top and Crimp-Top Seals / Closures

Part No.	Description	Unit
<b>Crimp-Top</b>		
ARO-5255-13	Seal, 20 mm Diameter, PTFE/Silicone magnetic cap	1000/pk
ARO-5250-13	Seal, 20 mm Diameter, PTFE/Silicone, silver	1000/pk
ARO-5220-13	Seal, 20 mm Diameter, PTFE/Silicone Pressure Release, silver	1000/pk
<b>Screw-Top</b>		
ARO-815M-13	Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (red/white)	1000/pk
ARO-81AM-13	Screw Cap, 18 mm, Magnetic, Silver, PTFE/Silicone septa (blue/white)	1000/pk

For Additional Vial Part Numbers and Information Visit:  
[www.phenomenex.com/Verex](http://www.phenomenex.com/Verex)

# Your Choice For an Easier QuEChERS Solution



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

## Cannabis Testing Resources

- **Technical Notes**
- **Documents and Guides**
- **Online Tools**
- **Applications for:**
  - Potency
  - Pesticides
  - Terpenes
  - Residual solvents
  - And more....



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

# Don't Forget Your Cannabis Accessories!

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## www.phenomenex.com

Phenomenex products are available worldwide. For the distributor in your country, contact Phenomenex USA, International Department at [international@phenomenex.com](mailto:international@phenomenex.com)

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Subject to Phenomenex Standard Terms and Conditions which may be viewed at [www.Phenomenex.com/TermsAndConditions](http://www.Phenomenex.com/TermsAndConditions).

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Gemini is patented by Phenomenex. U.S. Patent Nos. 7,563,367 and 8,658,038 and foreign counterparts.

SecurityGuard is patented by Phenomenex. U.S. Patent No. 6,162,362

*CAUTION: this patent only applies to the analytical-sized guard cartridge holder, and does not apply to SemiPrep, PREP or ULTRA holders, or to any cartridges.*

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