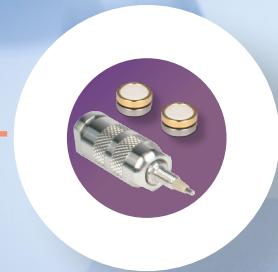
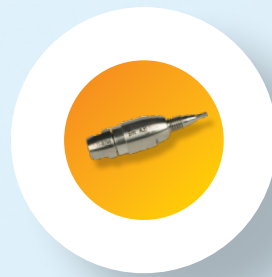
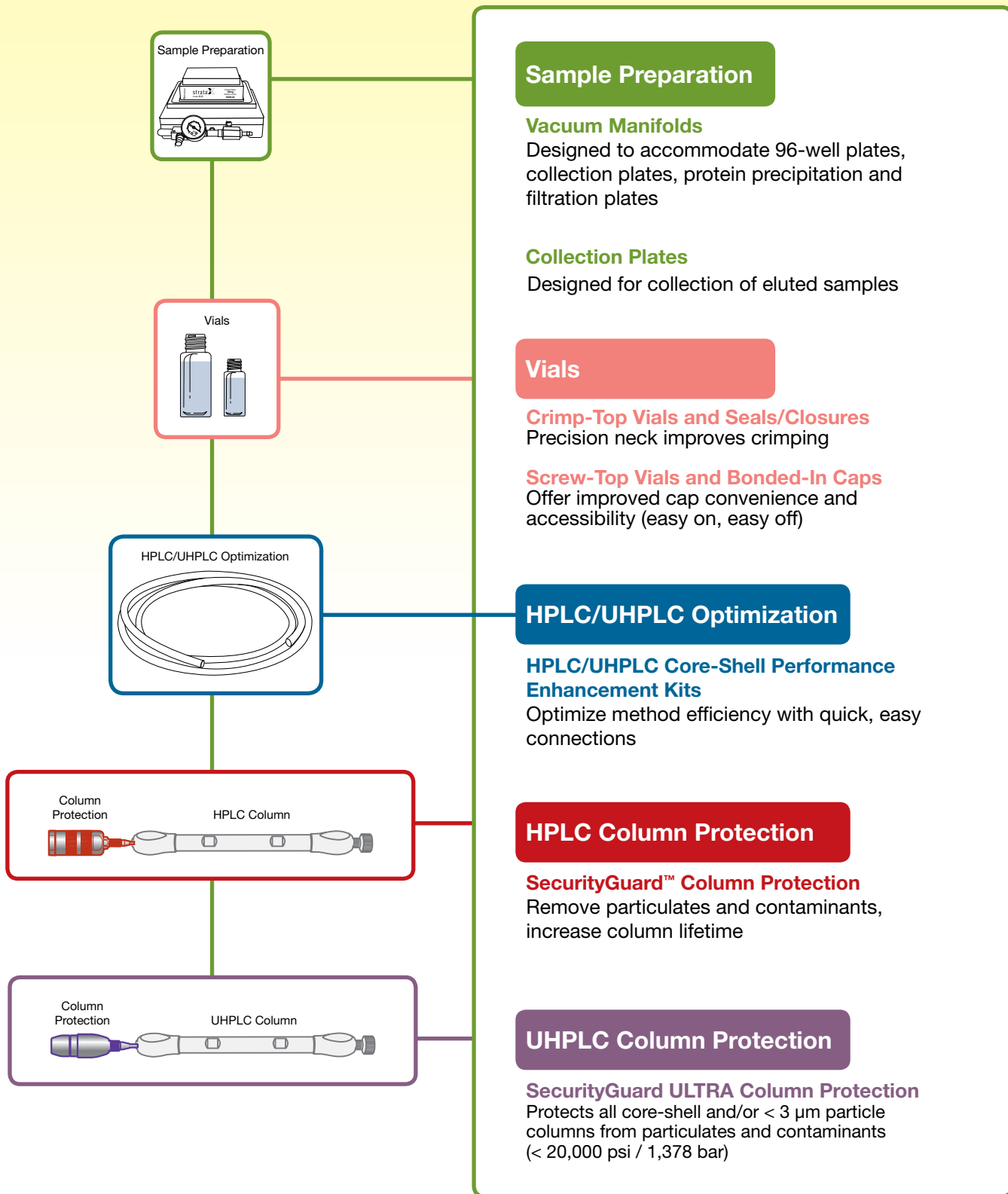


Don't Forget Your  
**Clinical  
Research  
Accessories!**



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

# Popular Accessories for Clinical Research Testing



## Sample Preparation

**Vacuum Manifolds**  
Designed to accommodate 96-well plates, collection plates, protein precipitation and filtration plates

**Collection Plates**  
Designed for collection of eluted samples

## Vials

**Crimp-Top Vials and Seals/Closures**  
Precision neck improves crimping

**Screw-Top Vials and Bonded-In Caps**  
Offer improved cap convenience and accessibility (easy on, easy off)

## HPLC/UHPLC Optimization

**HPLC/UHPLC Core-Shell Performance Enhancement Kits**  
Optimize method efficiency with quick, easy connections

## HPLC Column Protection

**SecurityGuard™ Column Protection**  
Remove particulates and contaminants, increase column lifetime

## UHPLC Column Protection

**SecurityGuard ULTRA Column Protection**  
Protects all core-shell and/or < 3 μm particle columns from particulates and contaminants (< 20,000 psi / 1,378 bar)



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.

## Vacuum Manifold & Collection Plates

- 96-Well Plate Vacuum Manifold**  
 Designed to accommodate 96-well plates, collection plates, protein precipitation plates, and filtration plates
- Collection Plates**  
 Available in conical V- and round bottom formats for maximized sample delivery

Part No.	Description	Unit
AHO-8950	96-Well Plate Manifold, Universal w/vacuum gauge	ea
<b>Collection Plates</b>		
AHO-7192	350 µL/well 96-Square Well Conical V-bottom Collection Plate	50/pk
AHO-7193	1 mL/well 96-Square Well Conical V-bottom Collection Plate	50/pk
AHO-7279	1 mL/well 96-Round Well Round Bottom 7 mm Collection Plate	50/pk
AHO-7194	2 mL/well 96-Square Well Conical V-bottom Collection Plate	50/pk
AHO-8635	2 mL/well 96-Square Well Round-Conical Bottom Collection Plate	50/pk
AHO-8636	2 mL/well 96-Round Well Round Bottom 8 mm Collection Plate	50/pk
<b>Sealing Mats</b>		
AHO-8597	Sealing Mats, Pierceable, 96-Square Well, Silicone	50/pk
AHO-8598	Sealing Mats, Pre-Slit, 96-Square Well, Silicone	50/pk
AHO-8631	Sealing Mats, Pierceable, 96-Round Well 7 mm, Silicone	50/pk
AHO-8632	Sealing Mats, Pre-Slit, 96-Round Well 7 mm, Silicone	50/pk
AHO-8633	Sealing Mats, Pierceable, 96-Round Well 8 mm, Silicone	50/pk
AHO-8634	Sealing Mats, Pre-Slit, 96-Round Well 8 mm, Silicone	50/pk
AHO-8199	Sealing Mats, Pierceable, 96 Square Well, Santoprene™	100/pk
AHO-7195	Sealing Mats, Pierceable, 96-Square Well, Ethylene Vinyl Acetate (EVA)	50/pk
AHO-7362	Sealing Tape Pad	10/pk



Well Plate

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.

For more information about Phenomenex sample preparation products visit: [www.phenomenex.com/sampleprepinfo](http://www.phenomenex.com/sampleprepinfo)

## HPLC / UHPLC Core-Shell Performance Enhancement Kit

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

Part No.	Description	Unit
AQO-8892	Core-Shell Performance Enhancement Kit, Includes: PEEKsil™ Tubing, Fittings and Tool*	Ea
<b>*Kit AQO-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		2/pk
Sure-Lok™ High Pressure PEEK 1-Pc Nut, 10-32, for 1/16 in. Tubing		10/pk
Sure-Lok Fitting Tightening Tool, Aluminum		10/pk



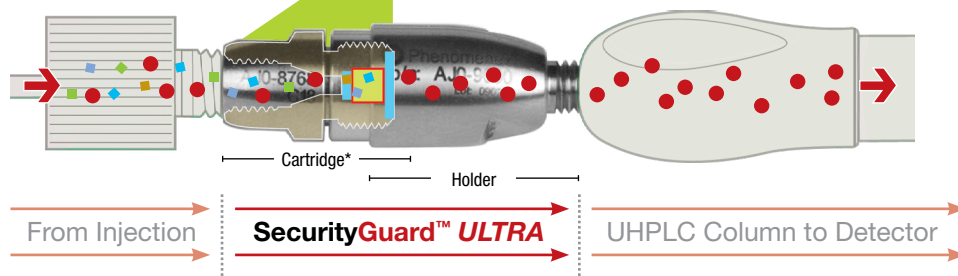
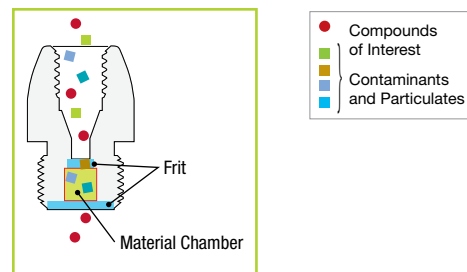
## SecurityGuard™ ULTRA Column Protection

- Extends HPLC, core-shell, and sub-2 µm column lifetime
- Fits virtually all manufacturers' columns 2.1 to 4.6 mm ID
- Pressure rated to 20,000 psi (1,378 bar)
- Simple to use

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.



## Verex™ Certified Vial Products

### Crimp-Top Vials, 2.0mL

- Cleaner vials eliminate ghost peaks and contaminants
- Used with most autosamplers, including Agilent®, Thermo Scientific®, Waters®
- Larger-opening "wide-mouth" style prevents broken needles and system downtime
- Precision neck improves crimping

Description	1000/pk
<b>Standard Opening</b>	
Vial, Crimp, 2 mL Clear, No Patch	ARO-3700-13
Vial, Crimp, 2 mL Clear, w/ Patch	ARO-3710-13
Vial, Crimp, 2 mL Amber, w/ Patch	ARO-3711-13
<b>Wide Mouth Opening</b>	
Vial, Crimp, 2 mL Wide Mouth, Clear, No Patch	ARO-37K0-13
Vial, Crimp, 2 mL Wide Mouth, Clear, w/ Patch	ARO-37L0-13
Vial, Crimp, 2 mL Wide Mouth, Amber, No Patch	ARO-37K1-13
Vial, Crimp, 2 mL Wide Mouth, Amber, w/ Patch	ARO-37L1-13

### 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

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

## Seals / Closures for Crimp-Top Vials

- Excellent for volatile samples
- Extra clean to eliminate contamination
- Colored aluminum

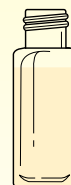


Save Money. Bulk discounts available. Timely delivery. Excellent support. Request a Quote. Want to make sure you're getting the best pricing on vials? Visit: [www.phenomenex.com/Verex](http://www.phenomenex.com/Verex)

Description	1000/pk
Seal, 11 mm Diameter, Crimp, PTFE/Silicone, silver	ARO-5780-13
Seal, 11 mm Diameter, Crimp, PTFE/Silicone/PTFE, silver	ARO-5760-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, silver	ARO-5740-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, blue	ARO-5742-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, red	ARO-5741-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, green	ARO-5743-13
Seal, 11 mm Diameter, Crimp, PTFE/Rubber, gold	ARO-574G-13
Seal, 11 mm Diameter, Crimp, PTFE, silver	ARO-5710-13

### 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)



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

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



## Make the Switch from Your Current Vials and Caps to Verex!

Finding the Verex replacement to your current vials and caps is EASY. Use our online web tool to find the guaranteed Verex product match.

Visit [www.phenomenex.com/VialFinder](http://www.phenomenex.com/VialFinder)

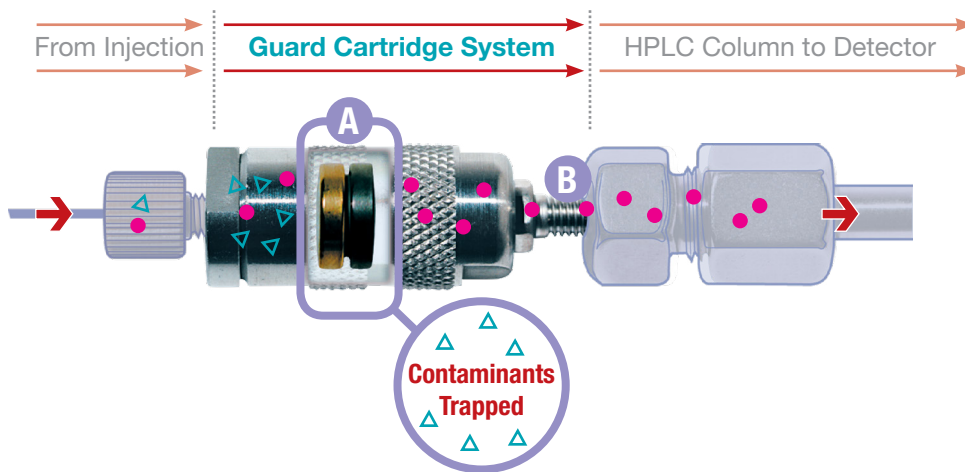
### 3 Easy Steps:

- Enter your current vial or cap part number
- Confirm the correct part number was entered
- Order the recommended Verex part number

## SecurityGuard™ Column Protection

- Extends HPLC/SFC column lifetime
- Prevents micro-particulates and chemical contaminants from damaging your column and detector
- Won't alter chromatography
- Easy to use

		Choose your HPLC Column ID (mm)					
		2.0 - 3.0	3.2 - 8.0	9.0 - 16.0	18.0 - 29.0	30.0 - 40.0	
Material	Description	pH Stability	Analytical	SemiPrep	Prep		
<b>Cartridges for General Purpose/Pharmaceutical</b>			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
PFP(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™ 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
<b>Cartridges for Core-Shell Media</b>			—	—	3/pk	Ea	Ea
<i>For core-shell media columns, such as Kinetex® and Aeris® (Phenomenex).</i>							
EVO C18	(ODS, Octadecyl)	1 - 12	*	*	—	AJO-9304	AJO-9305
C18	(ODS, Octadecyl)	1.5 - 8.5	*	*	AJO-9278	AJO-9145	AJO-9204
C8	(MOS, Octyl)	1.5 - 8.5	*	*	—	AJO-9205	AJO-9217
PFP	(Pentafluorophenyl)	1.5 - 9	*	*	—	AJO-9146	AJO-9299
Phenyl-Hexyl	(Phenylhexyl)	1.5 - 9	*	*	—	AJO-9147	AJO-9216
Biphenyl	(Biphenyl)	1.5 - 8.5	*	*	AJO-9280	AJO-9272	AJO-9273
HILIC	(HILIC)	2 - 7.5	*	*	—	AJO-9277	—
C18-Peptide	(ODS, Octadecyl)	1.5 - 9	*	*	AJO-9317	AJO-9318	AJO-9319
<b>Cartridges for Chiral</b>			10/pk	10/pk	3/pk	Ea	Ea
<i>For use with chiral columns, such as Lux® Cellulose-1, -2, -3, -4, &amp; Amylose-1, -2 (Phenomenex); CHIRALCEL® OD-H®, CHIRALCEL® OJ-H® &amp; Chiralpak® Ad®-H (DAICEL Corporation)</i>							
Lux Cellulose-1	Cellulose tris (3, 5-dimethyl-phenylcarbamate)	2 - 9	AJO-8402	AJO-8403	AJO-8404	AJO-8405	AJO-8406
Lux Cellulose-2	Cellulose tris (3-chloro-4-methylphenylcarbamate)	2 - 9	AJO-8398	AJO-8366	AJO-8399	AJO-8400	AJO-8401
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-methylphenylcarbamate)	2 - 9	AJO-8626	AJO-8627	AJO-8628	AJO-8629	AJO-8630
Lux Amylose-1	Amylose tris (3, 5-dimethyl-phenylcarbamate)	2 - 9	—	AJO-9336	AJO-9344	AJO-9338	AJO-9339
Lux Amylose-2	Amylose tris (5-chloro-2-methylphenylcarbamate)	2 - 9	AJO-8471	AJO-8470	AJO-8472	AJO-8473	AJO-8474
<b>Guard Cartridge Holders (one-time purchase only)</b>			kit	holder	kit	kit	
*For Core-Shell Media UHPLC Columns 2.1 to 4.6 mm ID, use SecurityGuard ULTRA Holder and Cartridges, see p. 289 of our 2016 catalog.			KJO-4282	AJO-9281	AJO-8223	AJO-8277	



**A** Cutaway view showing cartridge — can be easily inspected for contaminants

**B** Universal Fingertight connection to HPLC column — no wrenches required

△ contaminants  
● compounds of interest

# Don't Forget Your Clinical Research Accessories!

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Gemini and Kinetex EVO are 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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