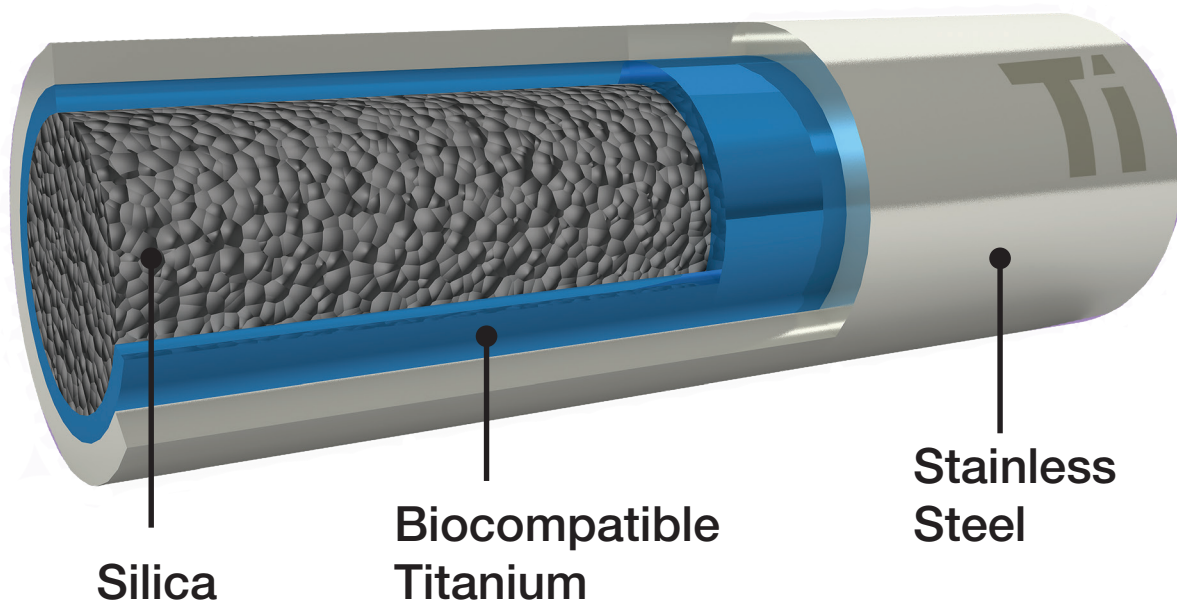


UNPARALLELED UHPLC/HPLC INERTNESS FOR BIOLOGICS



 **phenomenex**[®]
...breaking with traditionSM

www.phenomenex.com/bioTi



Biocompatible Hardware “Primed” to Help You!

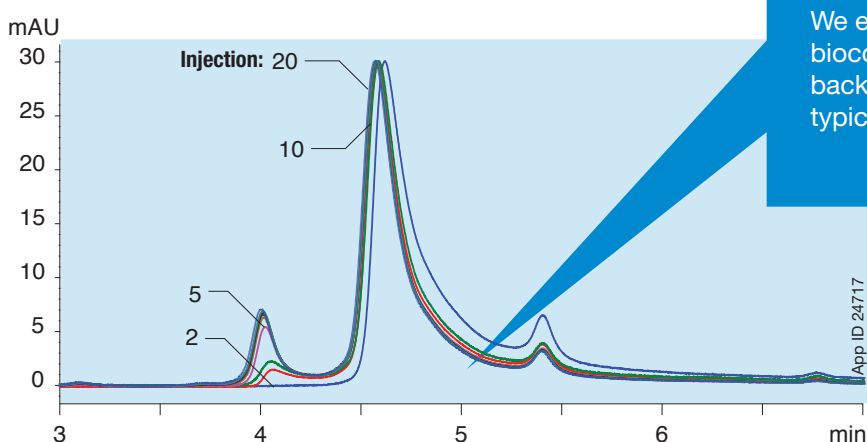
We've minimized the need for priming with a new titanium infused biocompatible hardware and frit that doesn't interfere with protein or peptide integrity!

BioTi™ HPLC/UHPLC hardware is designed to curtail:

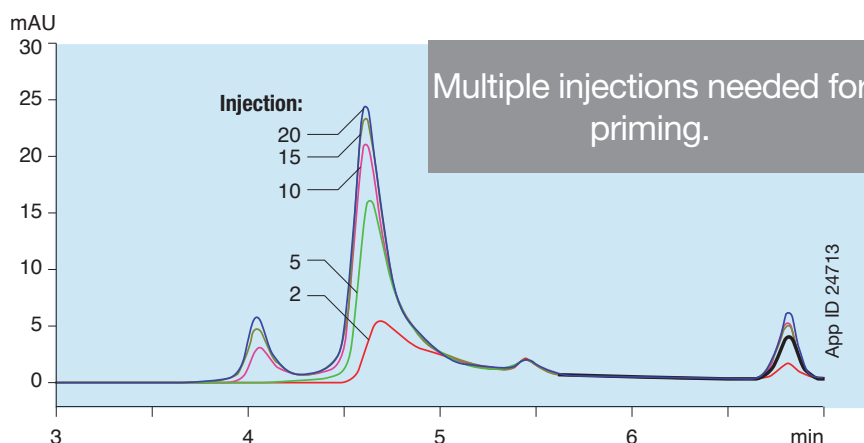
- Unwanted secondary interactions
- Problematic carryover
- Recovery issues between injection to detection

Overlaid Successive Injections – Protein Priming Comparison

bioZen™ Titanium BioTi Hardware



Traditional Stainless Steel



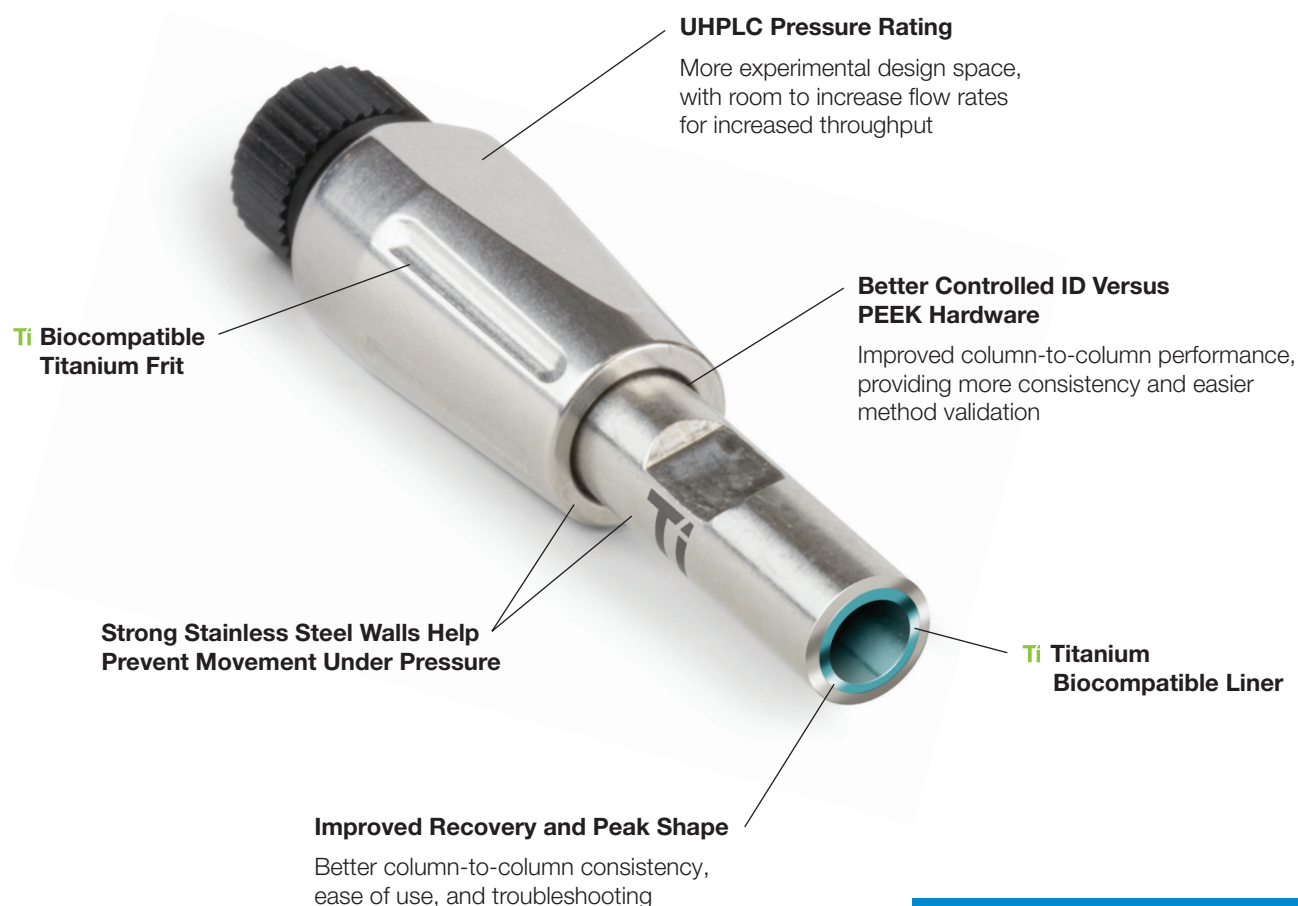
Conditions for both columns:

Column: bioZen 1.8 µm SEC-3
Dimension: 150 x 4.6 mm
Mobile Phase: 50 mM Dipotassium Phosphate + 100 mM Sodium Sulfate, pH 5.0
Flow Rate: 0.3 mL/min
Temperature: Ambient
Detection: UV @ 280 nm
Sample: 1. γ-Globulin, 5 mg/mL
2. Ovalbumin, 1 mg/mL

BioTi™ Hardware Product Features!

A biocompatible HPLC/UHPLC hardware affords scientists with a bioinert pathway between injection and detection.

Inside bioZen™ Biocompatible Hardware:



BioTi Questions

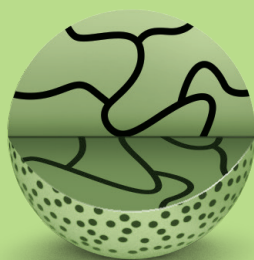
Ask a ZenMaster:

www.phenomenex.com/bioZenChat

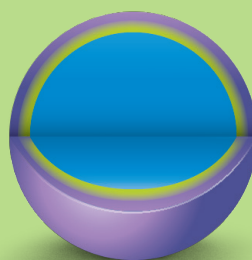
bioZen™ Columns Available in Biocompatible Hardware

With a single innovative product line, bioZen separation products provide enhanced characterization over an incredibly wide range of techniques.

3 Particle Platforms



Thermally Modified Fully Porous



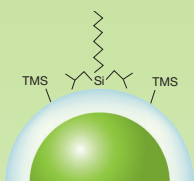
Monosized Polymeric Non-Porous



Core-Shell Technology

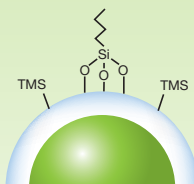
8 Particle Chemistries

Intact



bioZen Intact XB-C8
3.6µm

Large pore core-shell particle for fast intact biologic entry. C8 provides highly useful moderate hydrophobic selectivity.



bioZen WidePore C4
2.6µm

Core-shell particle with butyl stationary phase and optimal wide pore size distribution for better resolution of large biologics, including monoclonal antibodies and sub-unit analysis.

Size Exclusion (SEC)



bioZen SEC-2
1.8µm

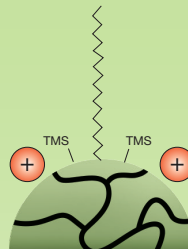
Extremely inert, high density fully porous particle with high efficiency and low molecular weight (LMW) separation range of 1k–450 kDa.



bioZen SEC-3
1.8µm

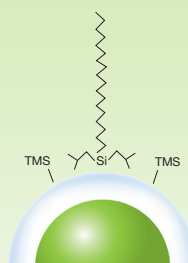
Extremely inert, high density fully porous particle with high efficiency and high molecular weight (HMW) separation range of 10k–700 kDa.

Peptide



bioZen Peptide PS-C18
1.6µm and 3µm

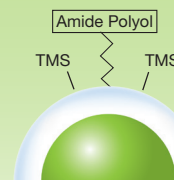
Excellent retention by combined positively charged surface ligand and C18 ligand.



bioZen Peptide XB-C18
1.7µm and 2.6µm

Overall retention of both acidic and basic peptides through C18 stationary phase with di-isobutyl side chains.

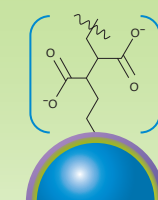
Glycan



bioZen Glycan
2.6µm

Provides optimal combination of high efficiency and selectivity for released glycans.

Ion-Exchange



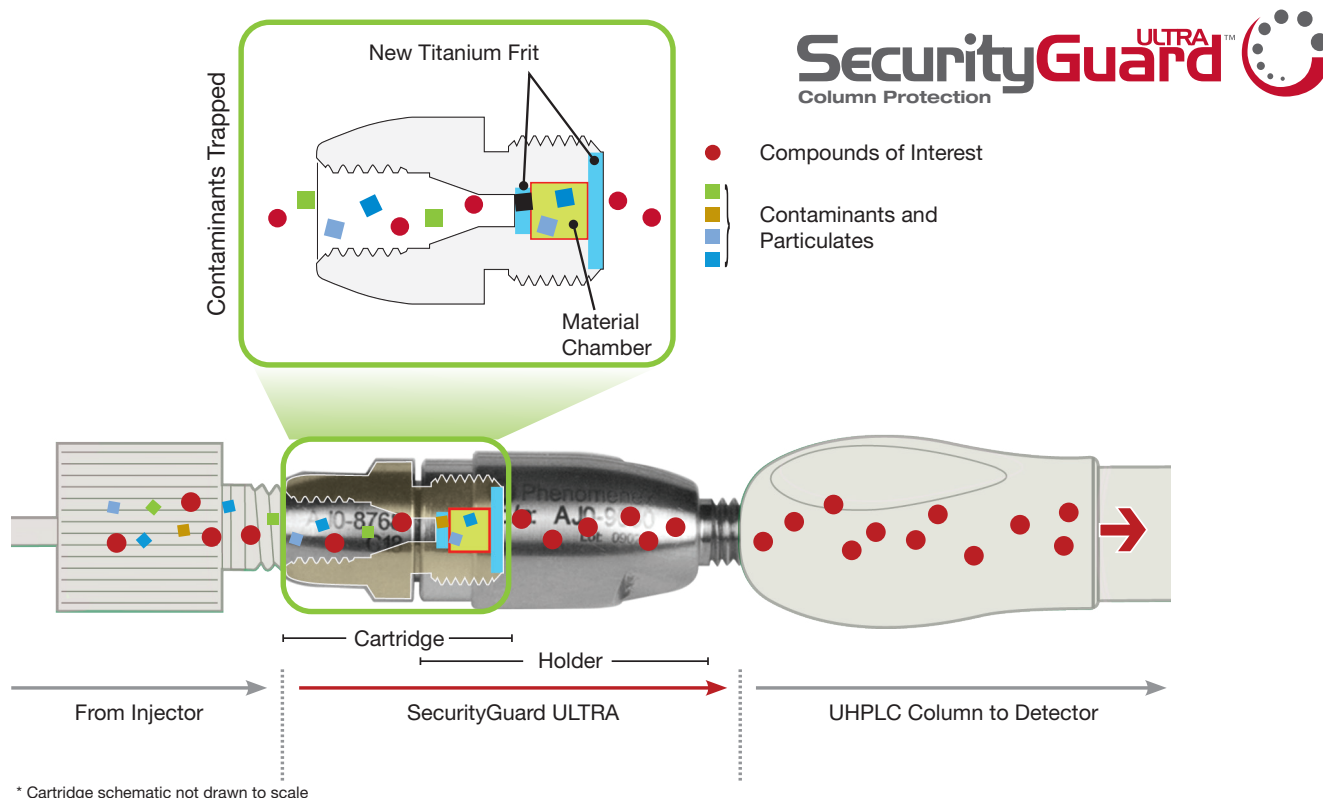
bioZen WCX
6µm

Monosized particles grafted with linear polycarboxylate chains to envelop and separate proteins from acidic/basic variants

Biocompatible Column Protection System

Extend column performance and minimize costly system and detector upkeep by preventing contaminants and particulates from getting into your column with a guard system.

SecurityGuard ULTRA Guard Cartridge System with Titanium



Targeted Sample Preparation



N-Glycan Clean-Up SPE

HILIC stationary phase that excels at retention and recovery of labeled, released N-glycans.

www.phenomenex.com/GlycanSPE



MagBeads Streptavidin Coated

Uniform magnetic bead particles for isolating and cleaning up proteins and peptide.

www.phenomenex.com/bioZenSP

Biocompatible Vials, Filters, and Syringes

Large molecules such as proteins and peptides are easily adsorbed onto even the most inert positively or negatively charged sites on the surfaces therefore biocompatible accessories are a must!

Accessories You Can Trust



Plastic Disposable Syringes:

- Use for all syringe filter applications
- Luer-lock outlet easy connection
- 3 to 20 mL capacities
- Ultra-clean, high-purity plastic



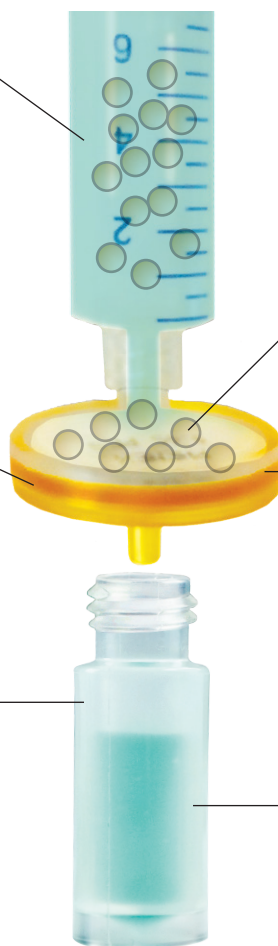
Syringe Filters Reduce:

- Extraneous peaks
- False quantitation
- Sample co-elution
- Instrument damage



Plastic Vials Provide:

- Inert and free from clarifiers and antioxidants
- 100 % virgin medical grade polypropylene
- No contribution to adsorption, pH change, or baseline noise



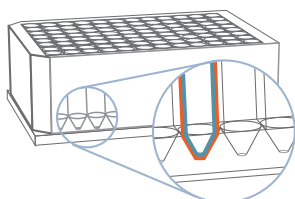
Contaminants and Particulates Trapped



Polyethersulfone (PES) Membrane:

- Hydrophilic membrane
- Fast flow
- High-throughput characteristics
- Ultra-low protein binding

Contaminants and Particulates-Free Sample



Strata Low-Bind 96-Well Collection Plate (Part No.: AH1-7036)

Utilizing glass-lined low-bind 96-well collection plates saves your recovery and sensitivity for your analysis. Available in 120/pk for a high-throughput option!

Product Ordering Information

bioZen™ Products - Powered by Biocompatible Hardware

bioZen Columns (mm)								Biocompatible Guard Cartridges		
	50 x 2.1	100 x 2.1	150 x 2.1	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	for 2.1 mm	for 4.6 mm	Holder
								/3pk	/10pk	ea
bioZen 2.6µm Glycan	00B-4773-AN	00D-4773-AN	00F-4773-AN	—	—	—	—	AJO-9800	—	AJO-9000
bioZen 1.6µm Peptide PS-C18	00B-4770-AN	00D-4770-AN	00F-4770-AN	—	—	—	—	AJO-9803	—	AJO-9000
bioZen 3µm Peptide PS-C18	00B-4771-AN	—	00F-4771-AN	00B-4771-E0	—	00F-4771-E0	—	AJO-7605	AJO-7606	KJO-4282
bioZen 1.7µm Peptide XB-C18	00B-4774-AN	00D-4774-AN	00F-4774-AN	—	—	—	—	AJO-9806	—	AJO-9000
bioZen 2.6µm Peptide XB-C18	00B-4768-AN	00D-4768-AN	00F-4768-AN	00B-4768-E0	—	00F-4768-E0	—	AJO-9806	AJO-9808	AJO-9000
bioZen 2.6µm WidePore C4	00B-4786-AN	00D-4786-AN	00F-4786-AN	00B-4786-E0	00D-4786-E0	00F-4786-E0	00G-4786-E0	AJO-9809	AJO-9811	AJO-9000
bioZen 3.6µm Intact XB-C8	00B-4766-AN	00D-4766-AN	00F-4766-AN	00B-4766-E0	—	00F-4766-E0	—	AJO-9812	AJO-9814	AJO-9000

	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	300 x 4.6	for 4.6 mm	Holder
										/3pk	ea
bioZen 1.8µm SEC-2	00B-4769-AN	—	00F-4769-AN	—	—	—	00F-4769-E0	—	00H-4769-E0	AJO-9850	AJO-9000
bioZen 1.8µm SEC-3	00B-4772-AN	—	00F-4772-AN	—	—	00D-4772-E0	00F-4772-E0	—	00H-4772-E0	AJO-9851	AJO-9000
										for 4.6 mm	Holder
										/10pk	ea
bioZen 6µm WCX	00B-4777-AN	00D-4777-AN	00F-4777-AN	00G-4777-AN	00B-4777-E0	00D-4777-E0	00F-4777-E0	00G-4777-E0	—	AJO-9400	KJO-4282

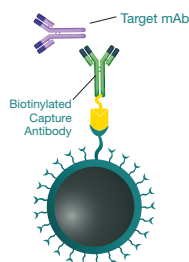
Sample Preparation

bioZen Solid Phase Extraction	Format	Sorbent Mass	Part Number	Unit
bioZen N-Glycan Clean-Up	Microelution 96-Well Plate	5 mg/well	8M-S009-NGA	1/box

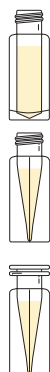


bioZen MagBeads Streptavidin

Formats	Part No.	Concentration	Bead Size
25 mg (≈50 samples)	KS0-9531	20 mg/mL	1.0 µm
50 mg (≈100 samples)	KS0-9532		
500 mg (≈1000 samples)	KS0-9533		



Verex™ Biocompatible Vials



Screw Top Vials							
Type	Material	Finish	Total Volume	Residual Volume	Caps (Included)	Part Number 100/pk	Part Number 1000/pk
Plastic Vial	Polypropylene	9 mm Screw Thread	700 µL	<5 µL	PTFE/Silicone	AR0-9993-12-C	AR0-9993-13-C
Plastic Vial	Polypropylene	9 mm Screw Thread	700 µL	<5 µL	PTFE/Silicone, preSlit	AR0-9994-12-C	AR0-9994-13-C
Plastic Vial	Polypropylene	9 mm Screw Thread	300 µL	<2 µL	PTFE/Silicone	AR0-9991-12	AR0-9991-13
Plastic Vial	Polypropylene	9 mm Screw Thread	300 µL	<2 µL	PTFE/Silicone, preSlit	AR0-9992-12	AR0-9992-13
Snap Top Vials							
Type	Material	Finish	Total Volume	Residual Volume	Caps (Included)	Part Number 100/pk	Part Number 1000/pk
Plastic Vial	Polypropylene	11 mm Snap Top	300 µL	<2 µL	PTFE/Silicone	AR0-9691-12-C	AR0-9691-13-C
Plastic Vial	Polypropylene	11 mm Snap Top	300 µL	<2 µL	PTFE/Silicone, preSlit	AR0-9692-12-C	AR0-9692-13-C

Phenex™ Biocompatible Syringe Filters

28 mm Diameter for 10 - 100 mL sample volumes		
Membrane Type/Size	Part No.	Unit
0.45 µm		
Phenex-PES ¹ (Polyethersulfone)	AF0-8108-12	100/pk
	AF0-8108-52	500/pk
0.20 µm		
Phenex-PES ¹ (Polyethersulfone)	AF0-8208-12	100/pk
	AF0-8208-52	500/pk

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

Plastic Disposable Syringes

Disposable Syringes			
Part No.	Description	Capacity (mL)*	Unit
AS0-8408	Plastic Disposable Syringes, Luer-lock	3	100/pk
AS0-8409	Plastic Disposable Syringes, Luer-lock	5	100/pk
AS0-8410	Plastic Disposable Syringes, Luer-lock	10	100/pk
AS0-8411	Plastic Disposable Syringes, Luer-lock	20	100/pk

*Choose larger volume syringe to reduce force on syringe filter membrane. 10 mL syringe is recommended.

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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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