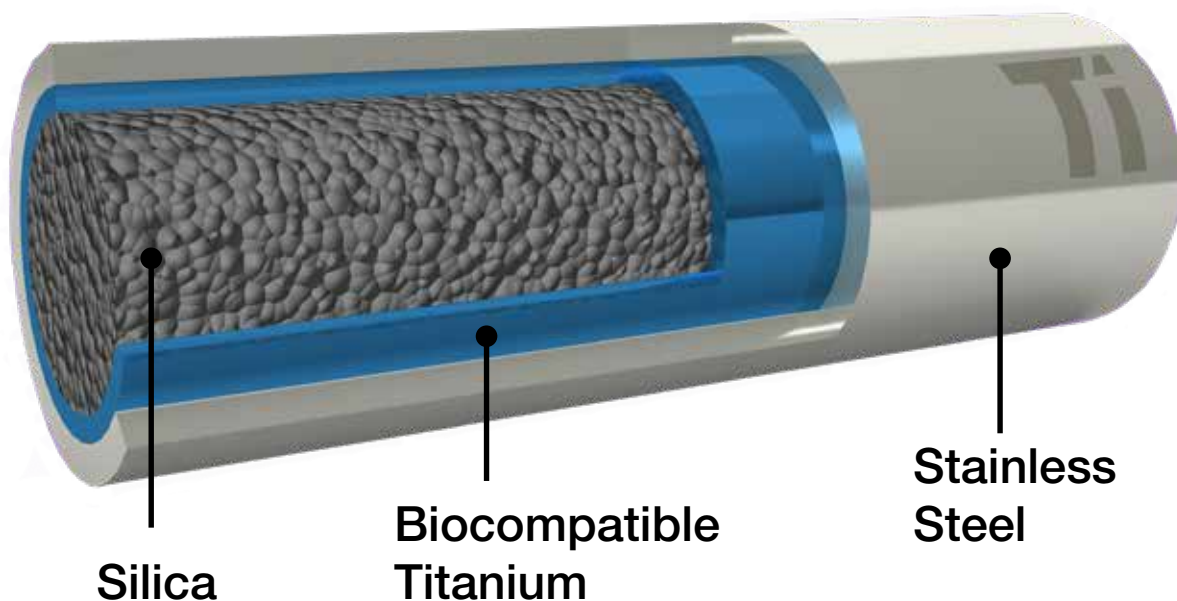


UNPARALLELED UHPLC/HPLC INERTNESS FOR BIOLOGICS



Biocompatible Hardware “Primed” to Help You!

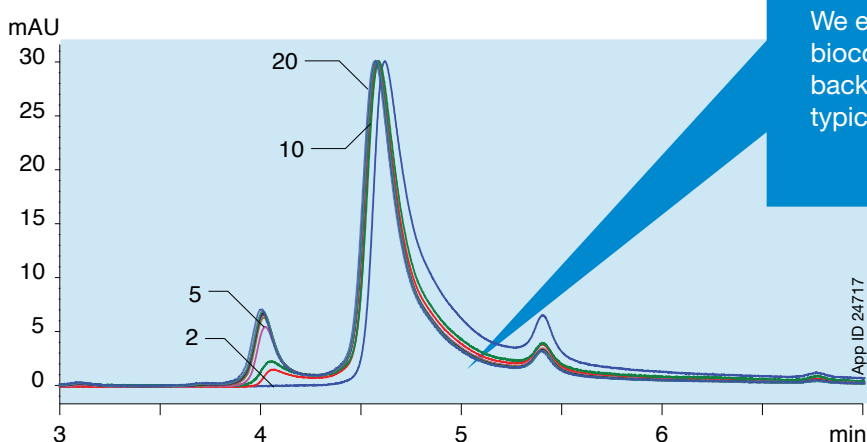
We've minimized the need for priming with a new titanium infused biocompatible hardware and frit that doesn't interfere with protein or peptide integrity!

BioTi™ HPLC/UHPLC hardware is designed to curtail:

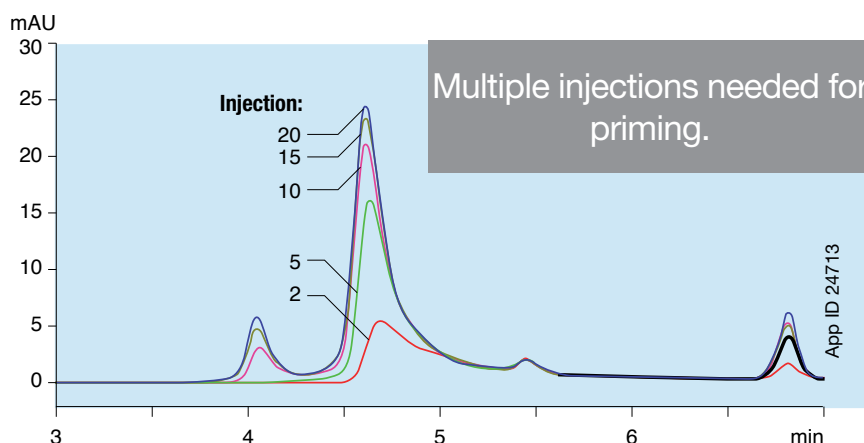
- Unwanted secondary interactions
- Problematic carryover
- Recovery issues between injection to detection

Overlaid Successive Injections – Protein Priming Comparison

bioZen™ Titanium BioTi Hardware



Traditional Stainless Steel

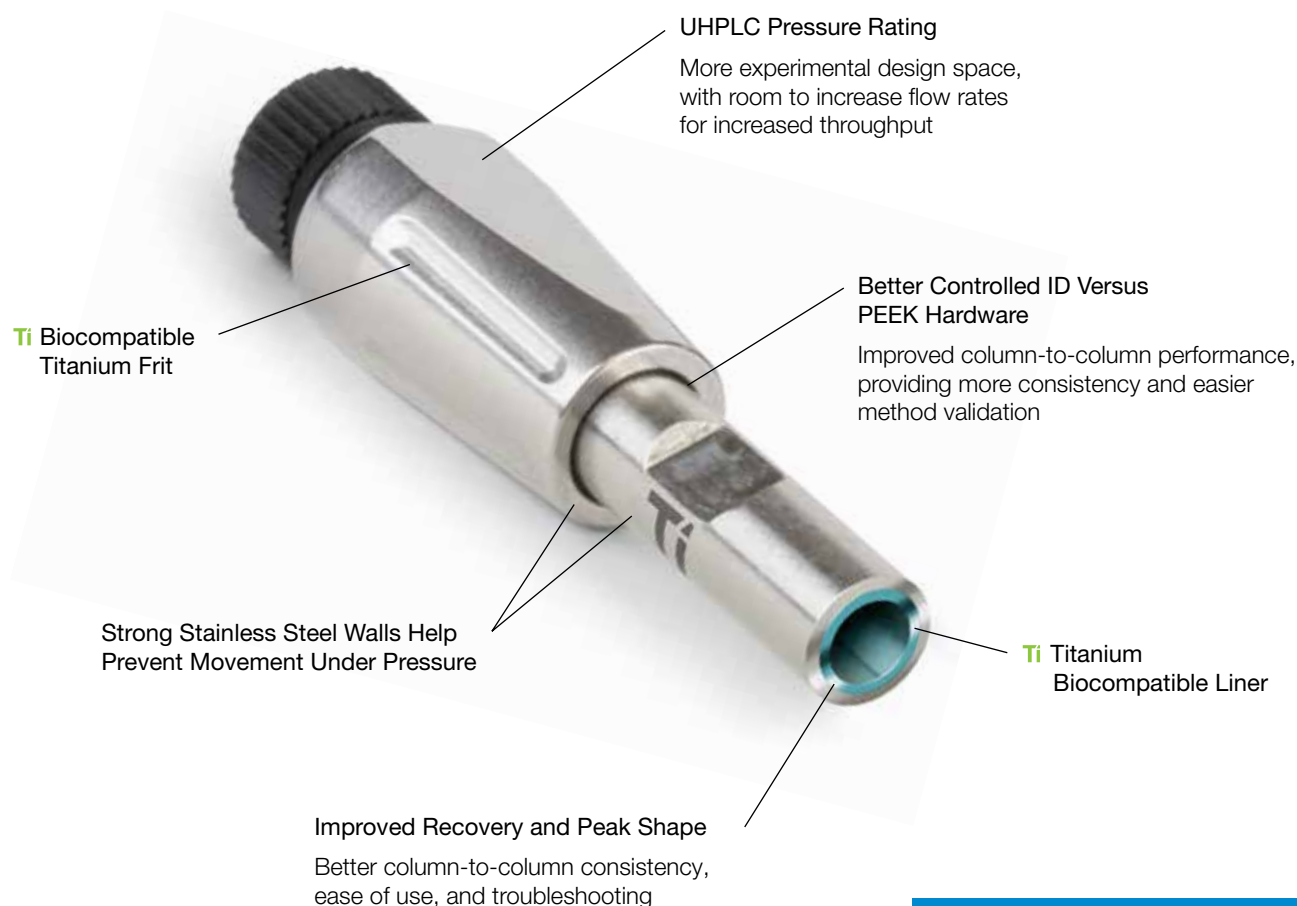


Conditions for both columns:
Column: bioZen 1.8 µm SEC-3
Dimension: 150 x 4.6 mm
Mobile Phase: 50 mM Dipotassium Phosphate + 100 mM Sodium Sulfate, pH 5.0
Flow Rate: 0.3 mL/min
Temperature: Ambient
Detection: UV @ 280 nm
Sample: 1. γ-Globulin, 5 mg/mL
2. Ovalbumin, 1 mg/mL

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

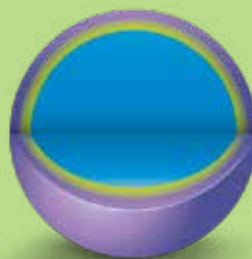
bioZen™ Columns Available in Biocompatible Hardware

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



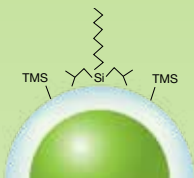
Monosized Polymeric Non-Porous



Core-Shell Technology

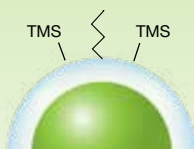
8 Particle Chemistries

Intact



bioZen Intact XB-C8
3.6 μm

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



bioZen Intact C4
3.6 μm

Large pore core-shell particle for fast intact biologic entry. C4 stationary phase provides highly sought after low hydrophobic retention, especially important for highly retentive biologics.

Size Exclusion (SEC)



bioZen SEC-2
1.8 μm

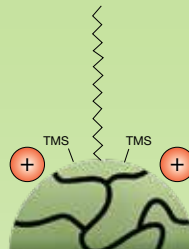
Extremely inert, high density fully porous particle with high efficiency and low molecular weight (LMW) separation range of 1 K–450 kDa.



bioZen SEC-3
1.8 μm

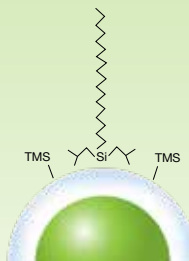
Extremely inert, high density fully porous particle with high efficiency and high molecular weight (HMW) separation range of 10 K–700 kDa.

Peptide



bioZen Peptide PS-C18
1.6 μm and 3 μm

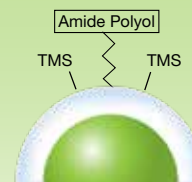
Excellent retention by combined positively charged surface ligand and C18 ligand.



bioZen Peptide XB-C18
1.7 μm and 2.6 μm

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

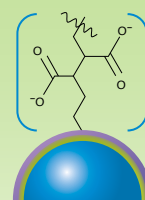
Glycan



bioZen Glycan
2.6 μm

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

Ion-Exchange



bioZen WCX
6 μm

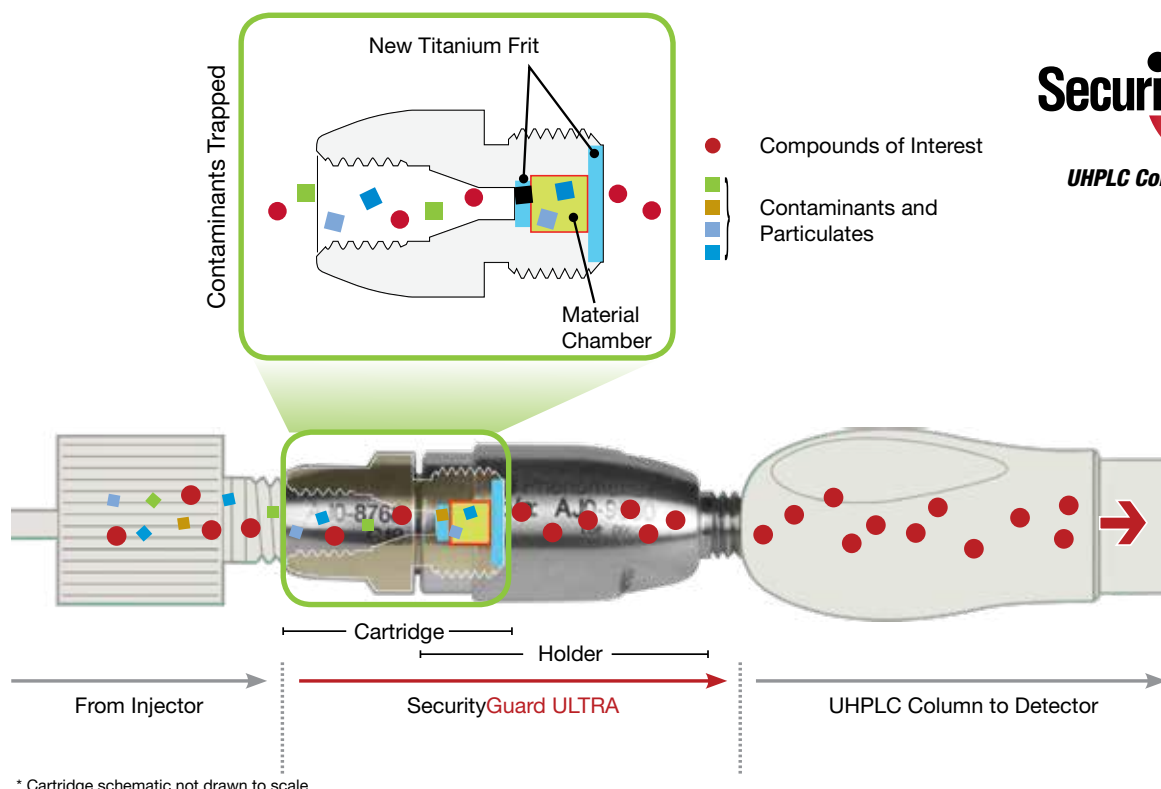
Monosized particles grafted with linear polycarboxylate chains to envelop and separate proteins from acidic/basic variants

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



SecurityGuard
ULTRA
UHPLC Column Protection

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



Strata-X Polymeric SPE

De-salt your sample before injection onto your column for more accurate results and longer column lifetimes.

www.phenomenex.com/StrataX

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



Suggestion:

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



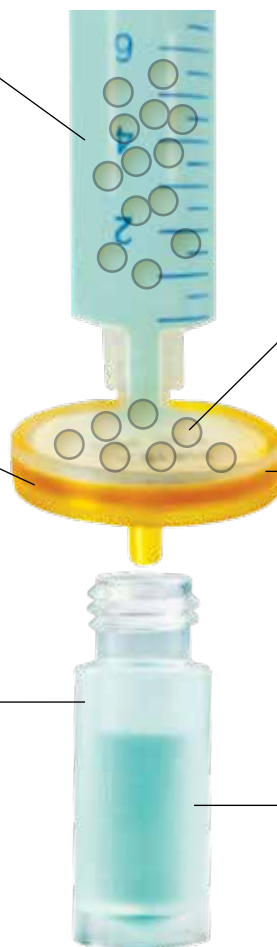
Syringe Filters Reduce:

- 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

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	150 x 4.6	for 2.1 mm	for 4.6 mm	Holder
bioZen 2.6 µm Glycan	00B-4773-AN	00D-4773-AN	00F-4773-AN	—	—	AJO-9800	—	AJO-9000
bioZen 1.6 µm Peptide PS-C18	00B-4770-AN	00D-4770-AN	00F-4770-AN	—	—	AJO-9803	—	AJO-9000
bioZen 3 µm Peptide PS-C18	00B-4771-AN	—	00F-4771-AN	00B-4771-E0	00F-4771-E0	AJO-7605	AJO-7606	KJO-4282
bioZen 1.7 µm Peptide XB-C18	00B-4774-AN	00D-4774-AN	00F-4774-AN	—	—	AJO-9806	—	AJO-9000
bioZen 2.6 µm 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 3.6 µm Intact C4	00B-4767-AN	00D-4767-AN	00F-4767-AN	00B-4767-E0	00F-4767-E0	AJO-9809	AJO-9811	AJO-9000
bioZen 3.6 µm 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 4.6	100 x 4.6	150 x 4.6	250 x 4.6	300 x 4.6	for 4.6 mm		Holder
bioZen 1.8 µm SEC-2	—	—	00F-4769-E0	—	00H-4769-E0	—	AJO-9850	AJO-9000
bioZen 1.8 µm SEC-3	—	00D-4772-E0	00F-4772-E0	—	00H-4772-E0	—	AJO-9851	AJO-9000
bioZen 6 µm WCX	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



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	ARO-9993-12-C	ARO-9993-13-C
Plastic Vial	Polypropylene	9 mm Screw Thread	700 µL	<5 µL	PTFE/Silicone, preSlit	ARO-9994-12-C	ARO-9994-13-C
Plastic Vial	Polypropylene	9 mm Screw Thread	300 µL	<2 µL	PTFE/Silicone	ARO-9991-12	ARO-9991-13
Plastic Vial	Polypropylene	9 mm Screw Thread	300 µL	<2 µL	PTFE/Silicone, preSlit	ARO-9992-12	ARO-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	ARO-9691-12-C	ARO-9691-13-C
Plastic Vial	Polypropylene	11 mm Snap Top	300 µL	<2 µL	PTFE/Silicone, preSlit	ARO-9692-12-C	ARO-9692-13-C

Phenex™ Biocompatible Syringe Filters

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

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Strata-X is patented by Phenomenex. U.S. Patent No. 7,119,145

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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