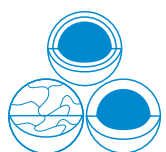


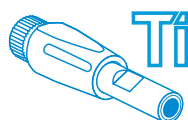
Biopharmaceutical Chromatography Solutions



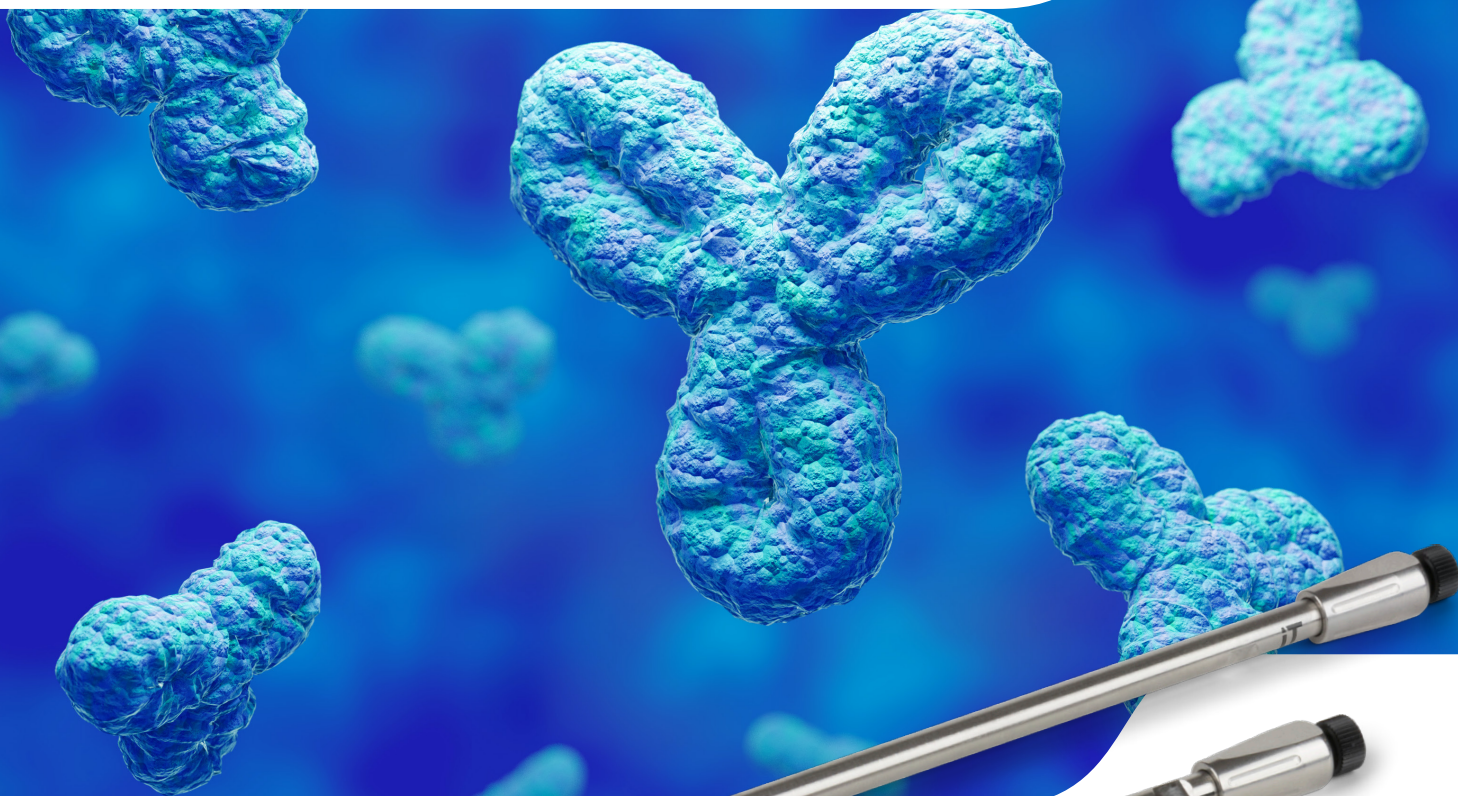
**Novel
Particles**



Chemistries



**Biocompatible
Hardware**



Peptide Mapping (RP)

Peptide Quantitation (RP)

Aggregate Analysis (SEC)

Charge Variant Analysis (IEX)

Glycan Analysis (HILIC)

Intact and Fragment Analysis (RP)

Intact Mass (RP)

Drug Antibody Ratio (RP)

Oligonucleotide Analysis (RP)

We've been busy.

From the minds of protein chemists, chromatographers, and mass spec gurus, we've forged something new.

- A comprehensive blend of innovative and acclaimed separation materials?
- A new titanium hardware to minimize priming and non-specific interactions?
- A product QC testing program to reflect customer applications?
- A team of savvy biopharma separation scientists to back your endeavors?
- A promise to drive successful bioseparations and fulfill the needs of our customers worldwide?

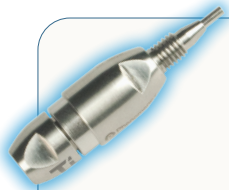
YES

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Biocompatible Column Hardware

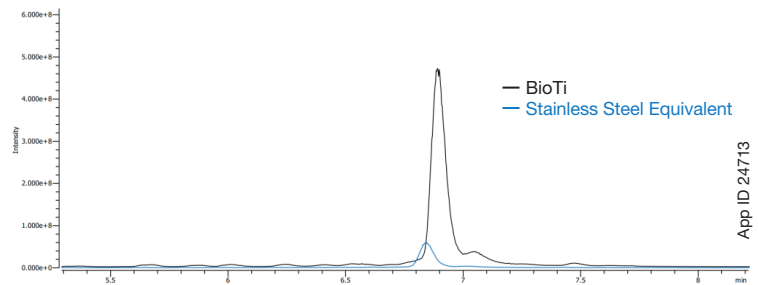
Utilizing titanium infused bioinert column hardware and frit BioTi™, you can rest assured knowing both the need for column priming as well chromatographic non-specific interactions are minimized. Whether it be oligos, proteins or peptides, maximal analyte recovery and reproducibility are assured.



Extend Column Lifetime with Biocompatible Guard Cartridges

Biocompatible SecurityGuard™ Standard and ULTRA guard cartridges remove unwanted contaminants before they clog your column or system. Each Biozen column has a matching guard to ensure workflow applicability.

Nusinersen on Biozen 2.6 µm Oligo Column Compared to stainless steel equivalent.



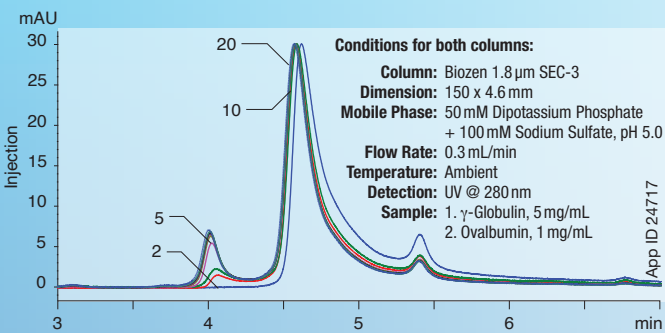
Column: Biozen 2.6 µm Oligo (BioTi)
Clarity 2.6 µm Oligo-XT (stainless steel)
Dimension: 100 x 2.1 mm
Part No.: OOD-4790-AN (Biozen)
Mobile Phase: A: 10 mM Hexylamine in Water + 12.5 mM Hexafluoro-2-propanol
B: 10 mM Hexylamine in Methanol + 12.5 mM Hexafluoro-2-propanol

Flow Rate: 0.3 mL/min
Injection Volume: 2 µL (12.5 ng)
Temperature: 55 °C
Instrument: Shimadzu LC-20A Prominence
Detection: TOF-MS
Detector: SCIEX TripleTOF6600

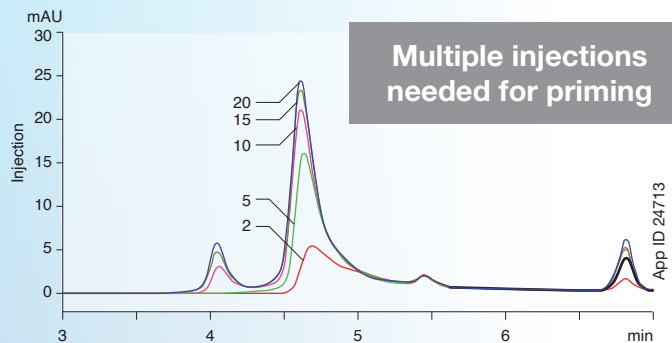
Gradient: Time (min)	% B
0	25
2	25
16	75
16.1	95
20	95
20.1	25

Overlaid Successive Injections – Protein Priming Comparison

Biozen Titanium BioTi Hardware



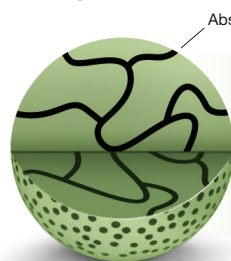
Traditional Stainless Steel



Advanced Particle Platforms

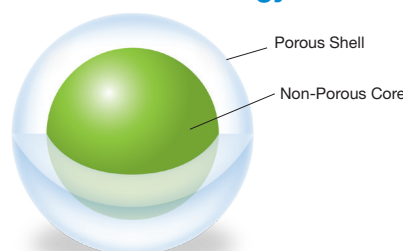
All Biozen particle platforms were individually designed and manufactured by Phenomenex to provide fit-for-purpose performance, ruggedness, and reproducibility across each of its supported applications. Each platform differs in the proprietary processing techniques used to control particle size, morphology and selectivity to offer flexibility to accommodate the unique properties and testing requirements of new emerging modalities.

Thermally Modified Fully Porous

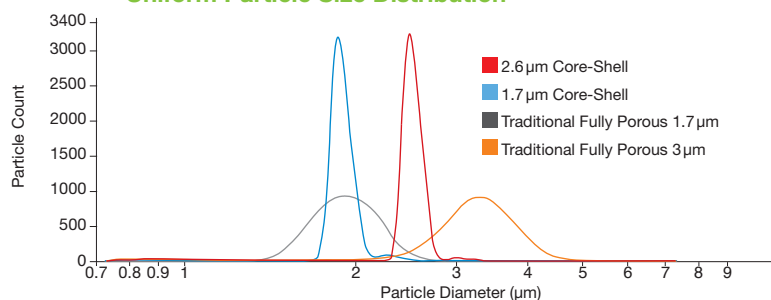


Through a series of proprietary thermal processing steps, we eliminate micropores and improve consistency—leading to high column efficiency and inertness.

Core-Shell Technology

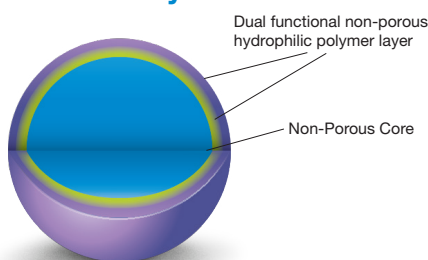


Uniform Particle Size Distribution

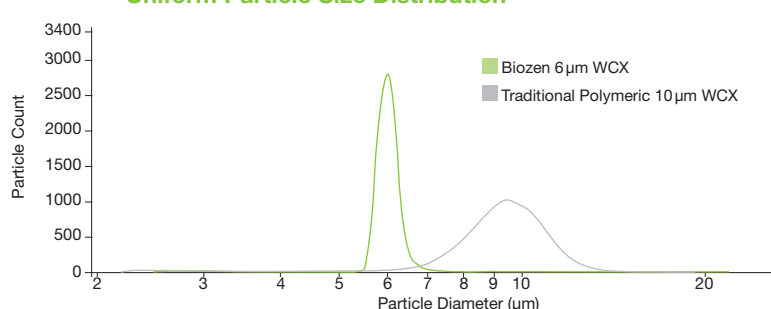


Using sol-gel processing techniques that incorporate nano structuring technology, a durable, homogeneous porous shell is grown on a solid silica core. This optimized process combined with industry leading column packing technology produces **highly reproducible columns that generate extremely high efficiencies and sensitivity.**

Monosized Polymeric Non-Porous

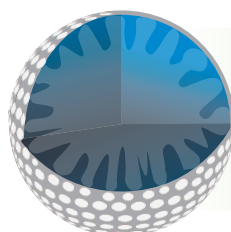


Uniform Particle Size Distribution



Meticulously controlled monosized particle technology **enhances particle consistency to improve chromatographic efficiency and reproducibility.** This innovative non-porous particle serves as the perfect backbone for complex ion-exchange chemistries.

Pore Controlled Technology




dSEC columns are packed with low pore volume silica coupled with a proprietary hydrophilic diol-type bonded surface chemistry that **prevents secondary interactions** between the analyte silica surface and **enhances column lifetime, stability, and analyte recovery.**

9 Particle Chemistries

With 4 innovative particle morphologies providing solutions for biological workflows, you can easily find the chemistry necessary for your separation needs. Gain confidence in knowing these high quality chemistries are designed as control strategies to achieve quality data and confidently make critical drug development decisions.

SEC



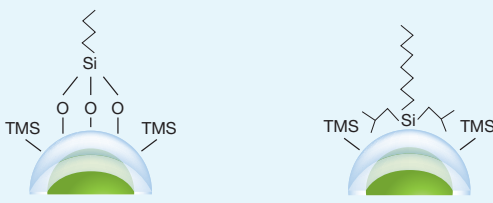
Biozen dSEC-2
1.8 μm and 3 μm

Inert, high-strength porous particle for the separation and quantitation of monoclonal antibody aggregate and fragments.

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.

Intact



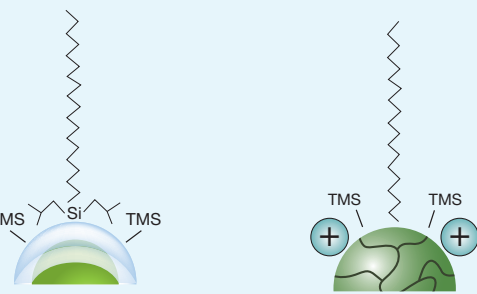
Biozen WidePore C4
2.6 μm

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

Biozen Intact XB-C8
3.6 μm

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

Peptide



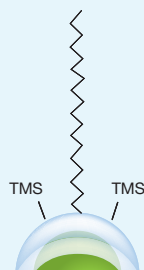
Biozen Peptide XB-C18
1.7 μm and 2.6 μm

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

Biozen Peptide PS-C18
1.6 μm and 3 μm

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

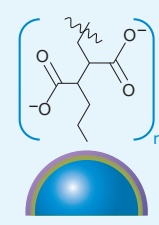
Oligonucleotides



Biozen Oligo
1.7 μm and 2.6 μm

Organo-silica core-shell particle bonded with a C18 stationary phase offers high selectivity for even minute oligo differences alongside high and low pH robustness.

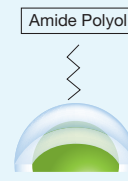
Ion-Exchange



Biozen WCX
6 μm

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

Glycan



Biozen Glycan
2.6 μm

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

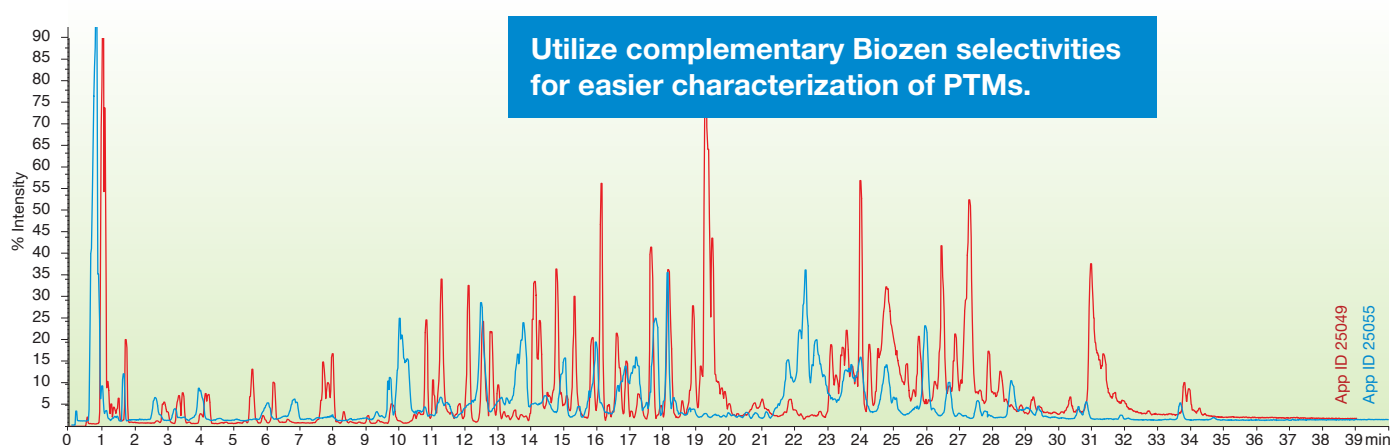
All Biozen chemistries are available in analytical columns and select chemistries are available for nano LC use.

Chat to learn more
www.phenomenex.com/chat

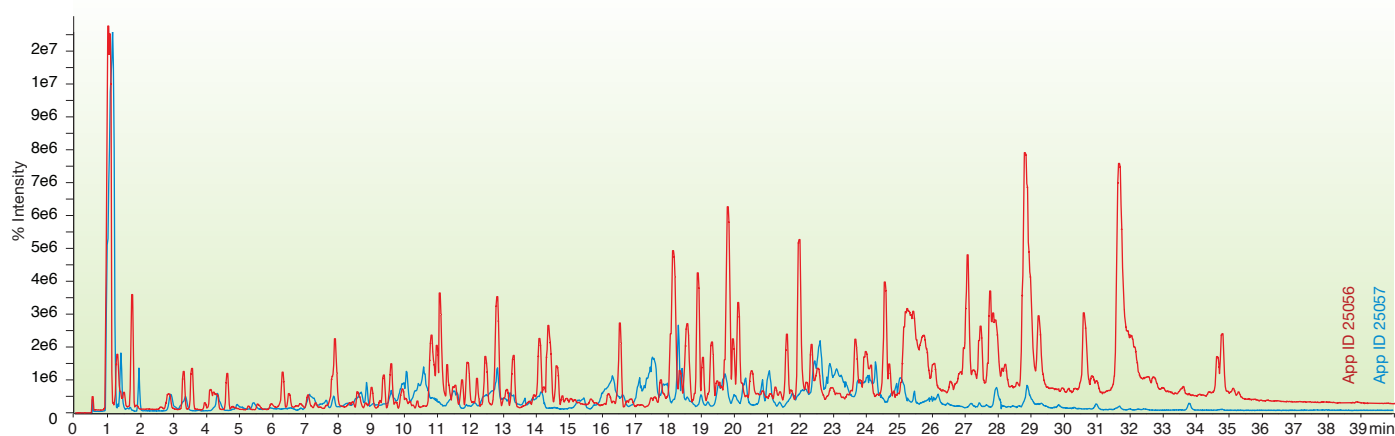
Peptide Mapping

Digesting proteins into their peptide components is crucial to understanding post translation modifications. We have designed two Biozen Peptide columns offering unique orthogonal selectivities to achieve full sequence coverage. Achieve full sequence coverage through higher peak capacities, improved peak shapes and higher sensitivity.

Trastuzumab Biosimilar Peptide Map



Infliximab Biosimilar Peptide Map



Conditions for all columns:

Columns: ■ Biozen 1.6 µm Peptide PS-C18
■ Biozen 2.6 µm Peptide XB-C18
Dimension: 150 x 2.1 mm
Part No.: [00F-4770-AN](#)
[00F-4768-AN](#)
Mobile Phase: A: 0.1% Formic Acid in Water
B: 0.1% Formic Acid in Acetonitrile

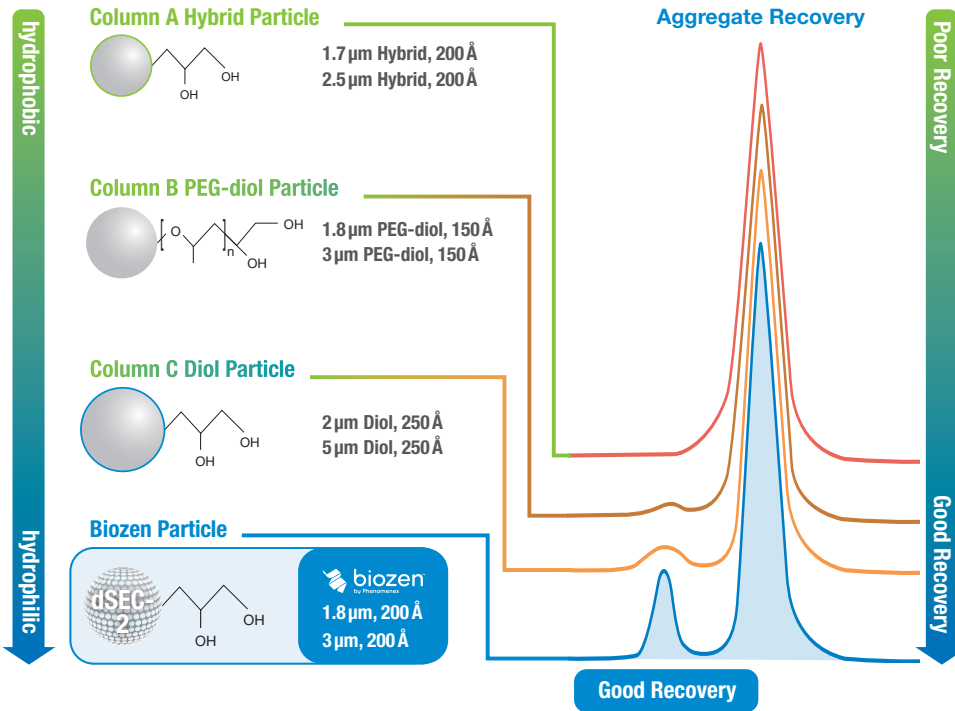
Gradient:	Time (min)	% B
	0	1
	0.5	1
	50	50
	55	50
	56	95

Flow Rate: 0.3 mL/min
Temperature: 40 °C
Detector: QTOF (SCIEX® X500B)

Aggregate Analysis

With the expectation of low level protein aggregation (<0.1% peak area compared to monomer, robust aggregate analysis is critically sought after. Biozen SEC columns are designed to address deficiencies in traditional SEC columns through low pore volume silica packed into BioTi™ hardware. Rest assured your resolution, peak shape, and %recovery demands, even at low concentrations, will be achieved.

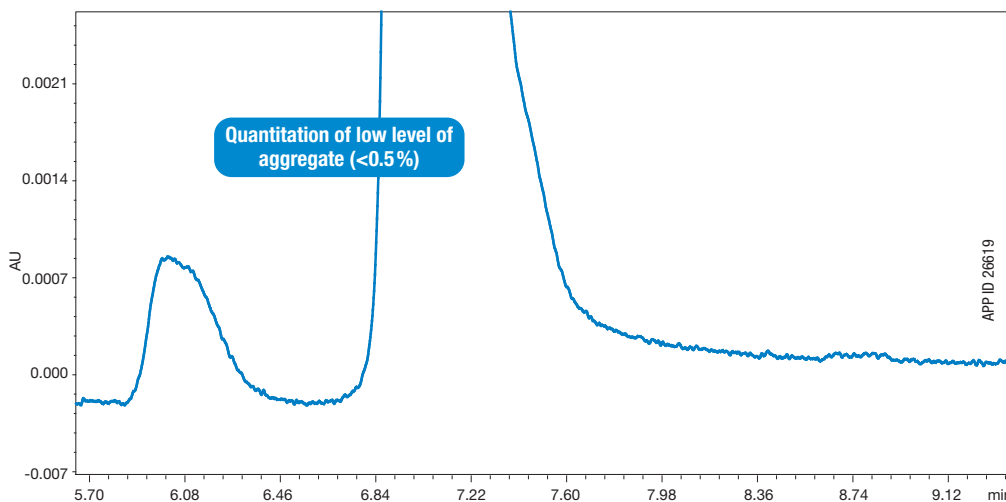
Biozen dSEC-2 Hydrophilic Surface Chemistry Improves Aggregate Analysis



New Standard for Platform SEC Methods

Whether IgG2 or IgG4 isotypes, bispecifics, or Fc-Fusions, dSEC-2 provides excellent separation and sample recovery for many different classes of antibodies and related recombinant proteins.

Bispecific Emicizumab



Method Conditions:

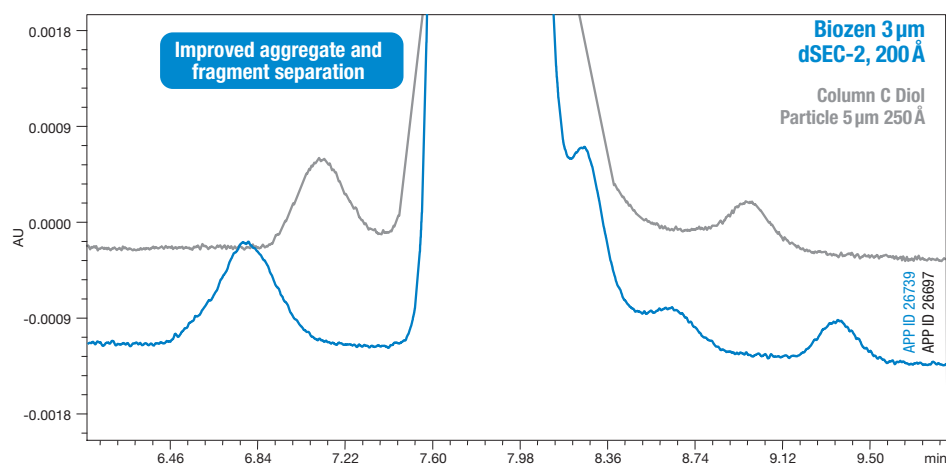
- Column:** Biozen 1.8 μm dSEC-2, 200 Å
- Dimension:** 300 x 4.6 mm
- Part No.:** 00H-4787-E0
- Mobile Phase:** 200 Potassium Phosphate + 250 mM KCl, pH 6.2
- Flow Rate:** 0.35 mL/min
- Injection Volume:** 10 μL
- Detector:** UV @ 280 nm
- Temperature:** 25 °C
- Sample:** Various, 10 mg/mL

Aggregate Analysis

Improved Aggregate Recovery and Separation

Although many silica-based SEC columns use both similar stationary phases and standard pore diameters, pore structure and surface chemistry vary significantly. Biozen dSEC-2 columns provide the optimum pore volume and surface chemistry finely tuned for monoclonal antibodies and related large protein biotherapeutics.

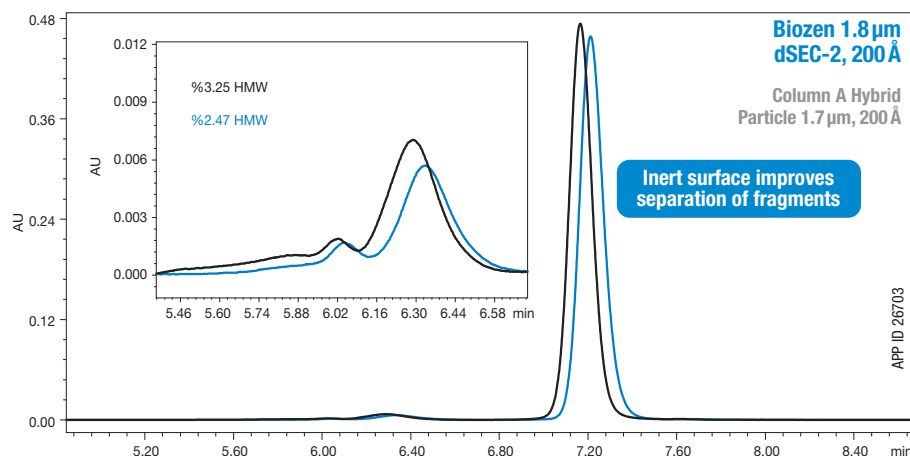
Trastuzumab



Conditions for both columns:

Columns: Biozen 3 μm dSEC-2, 200 Å
Column C 5 μm 250 Å
Dimension: 300 x 7.8 mm
Part No.: 00H-4788-K0 (Biozen)
Mobile Phase: 50 mM Sodium Phosphate + 300 mM NaCl, pH 6.8
Flow Rate: 1.0 mL/min
Injection Volume: 10 μL
Temperature: 25 °C
Detector: UV @ 280 nm
Sample: Trastuzumab, 10 mg/mL

NIST mAb



Conditions for both columns:

Columns: Biozen 1.8 μm dSEC-2, 200 Å
Column A 1.7 μm, 200 Å
Dimension: 300 x 4.6 mm
Part No.: 00H-4787-EQ (Biozen)
Mobile Phase: 200 Potassium Phosphate + 250 mM Potassium Chloride pH 6.2
Flow Rate: 0.35 mL/min
Injection Volume: 10 μL
Temperature: 25 °C
Detector: UV @ 280 nm
Sample: NIST mAb, 10 mg/mL

Comparative separations may not be representative of all applications.

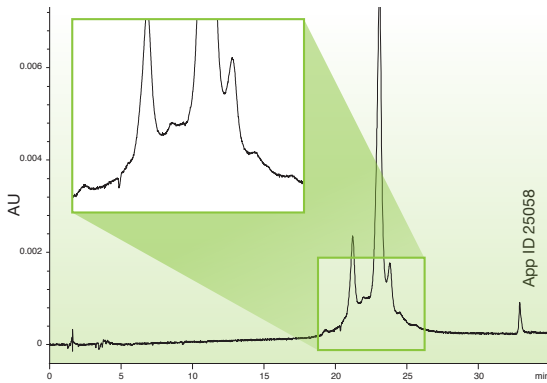
Find more size exclusion applications such as improving lifetime and ability to use organic solvents without compromising results at

www.phenomenex.com/dSEC

Charge Variant Analysis

Biozen WCX was crafted to consistently differentiate between native protein charge variants that arise from PTMs within biotherapeutics throughout discovery, development and manufacturing. The linear polycarboxylate chains grafted to monosized non-porous polymeric particles envelop and separate proteins from acidic and basic variants in both ionic strength and pH-based method extremes. Biozen WCX media enables scientists to reproducibly characterize charge heterogeneity while ensuring excellent recovery through both particle inertness and bioinert titanium BioTi™ column hardware.

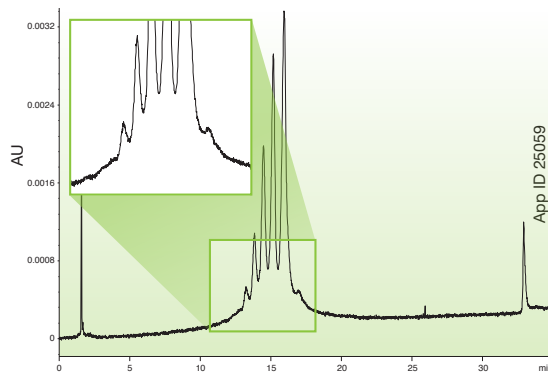
Trastuzumab (MES Salt Gradient)



Column: Biozen 6µm WCX
Dimension: 250 x 4.6 mm
Part No.: 00G-4777-E0
Mobile Phase: A: 20 mM MES (pH 5.6)
 B: 20 mM MES + 300 mM NaCl (pH 5.6)

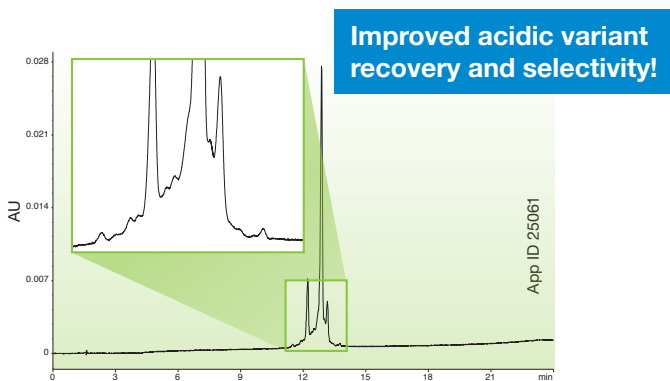
Gradient: Time (min)	% B
0	15
1	15
31	45
31.1	100
34	100
35	15

Cetuximab (MES Salt Gradient)



Flow Rate: 1 mL/min
Temperature: 30 °C
Detection: UV @ 280 nm
Sample: Trastuzumab

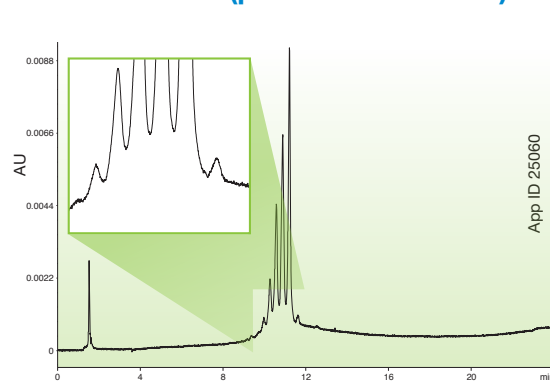
Trastuzumab (pH Gradient Buffer)



Column: Biozen 6µm WCX
Dimension: 250 x 4.6 mm
Part No.: 00G-4777-E0
Mobile Phase: A: CX -1 (pH 5.6) Gradient Buffer*
 B: CX -1 (pH 10.2) Gradient Buffer*

Gradient: Time (min)	% B
0	0
1	0
21	100
23	100
24	0

Cetuximab (pH Gradient Buffer)



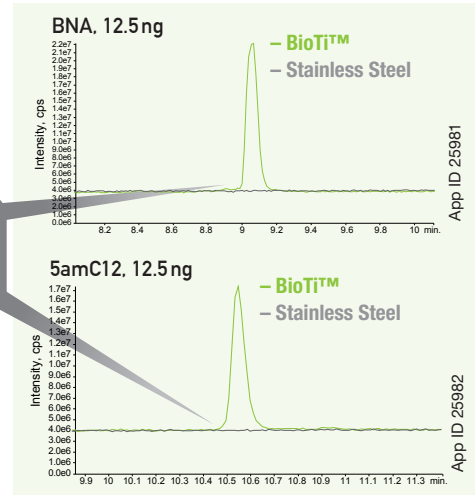
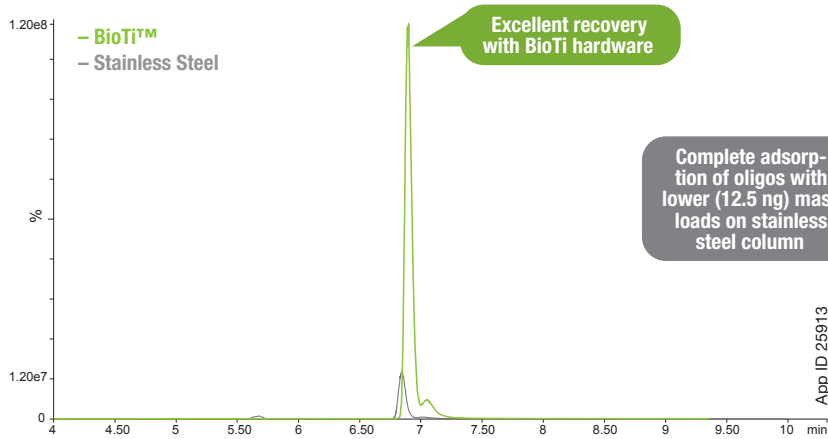
Flow Rate: 1 mL/min
Temperature: 30 °C
Detection: UV @ 280 nm
Sample: Cetuximab, biosimilar expressed in HEK

Acknowledgment: Sample graciously gifted by Catherine Bladen, Absolute Antibody
 * From Thermo Fisher Scientific Inc.

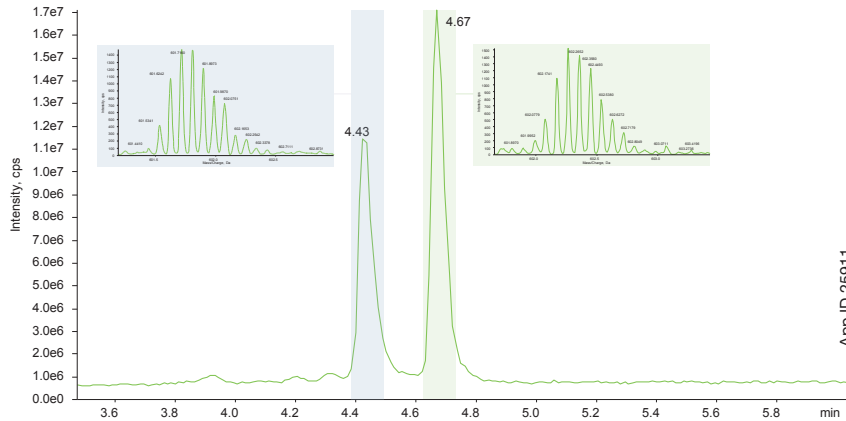
Oligonucleotide Analysis

The Biozen Oligo LC column brings a unique combination of improved chromatographic efficiency from its core-shell morphology and high pH stability necessary for oligonucleotide separations. Biozen Oligo is packed in enables BioTi to mitigate non-specific interactions that lead to analyte loss, distortions in peak shape and carry over. Confidently maximize resolution and reproducibility, even under the most demanding and extreme method conditions, with Biozen Oligo.

BioTi versus Traditional Stainless Steel Hardware



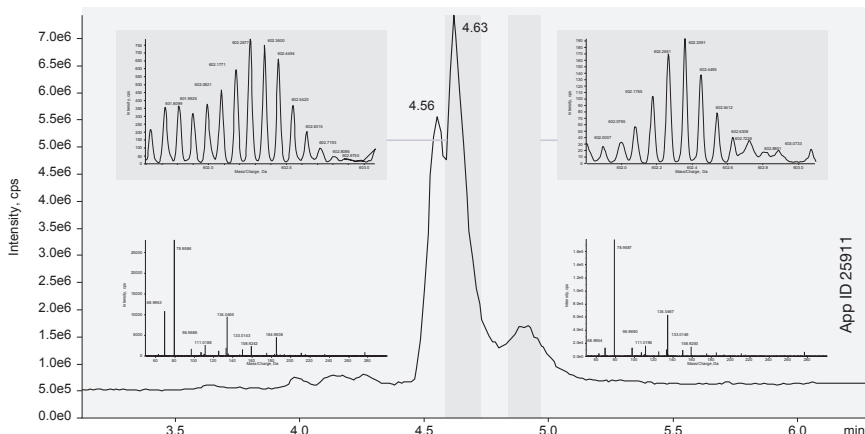
LC-MS Analysis of siRNA using BioTi UHPLC Hardware



Achieve clear separation between sense and antisense strands.

Vs

LC-MS Analysis of siRNA using Stainless Steel UHPLC Hardware

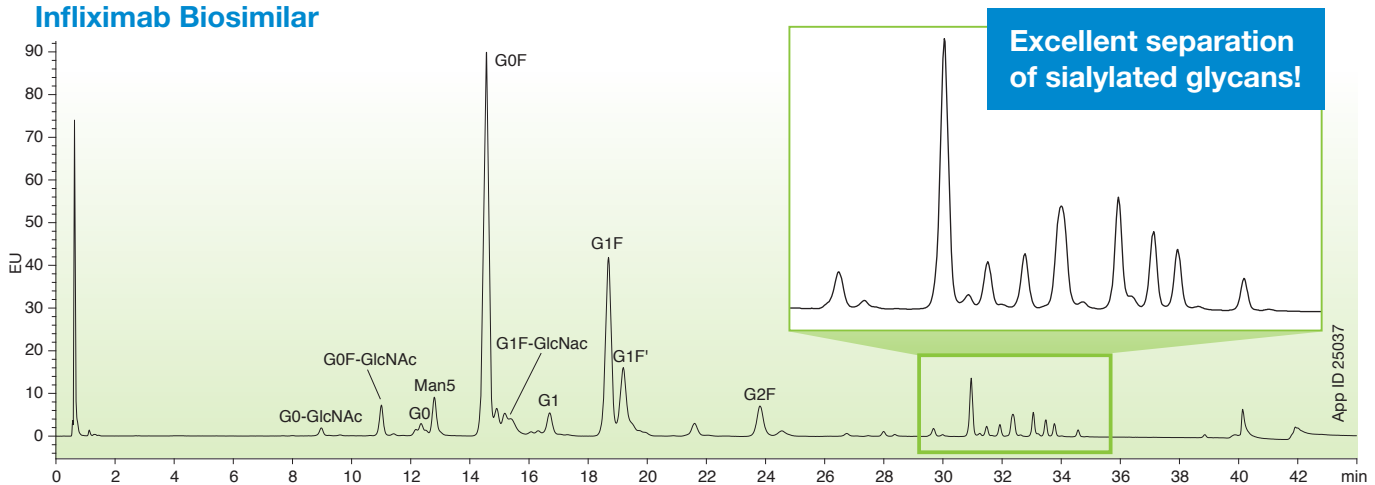


Observe Bimodal peaks within antisense strand due to stainless steel interactions

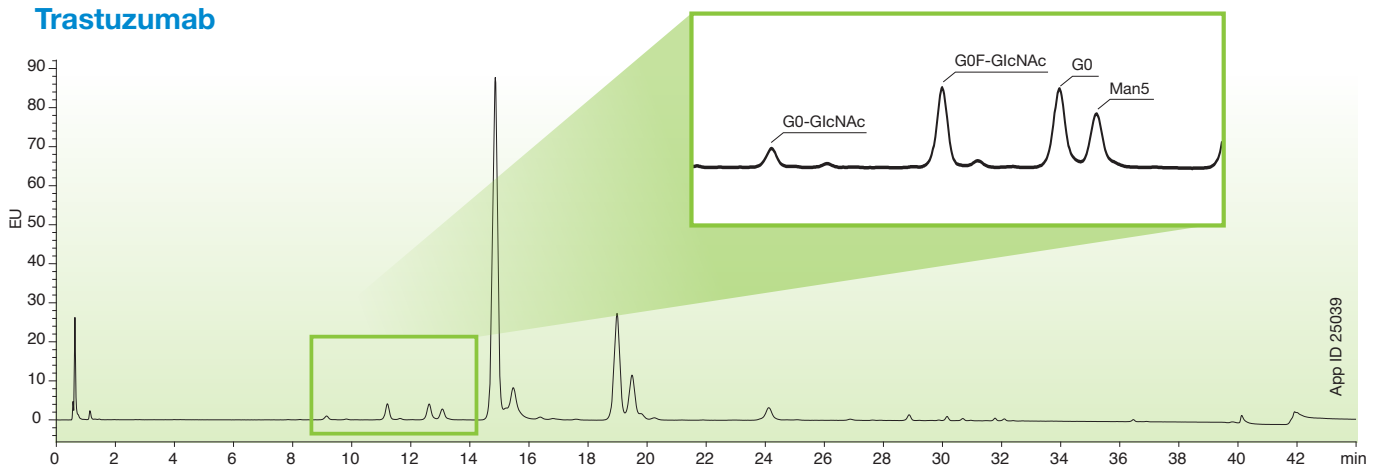
Glycan Analysis

The unique selectivity of Biozen Glycan are designed to resolve highly chemically similar sugar moieties of released and labeled N- and O-linked glycans. With a 2.6 μm core-shell particle, both HPLC or UHPLC systems can benefit from its high efficiency particle morphology to achieve sharper peak shapes within faster run times. Under HILIC-FLR or HILIC-MS conditions, the Biozen Glycan column excels with increased polar retention and selectivity to enable fast reproducible characterization of your biotherapeutic's glycosylation profile.

Infliximab Biosimilar



Trastuzumab

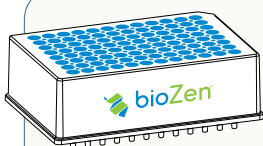


Conditions for both columns:

Column: Biozen 2.6 μm Glycan
Dimensions: 150 x 2.1 mm
Part No.: [00F-4773-AN](#)
Mobile Phase: A: 100 mM Ammonium Formate, pH 4.5
 B: Acetonitrile

Gradient: Time (min)	% B
0	78
10	74.5
24	72
38.5	55.9
38.6	40
40.6	40
40.7	78
48	78

Flow Rate: 0.5 mL/min
Temperature: 50 $^{\circ}\text{C}$
Detection: FLD ex/em 285/345 nm
Sample: As noted



Biozen N-Glycan Clean-Up

Novel solid phase extraction (SPE) HILIC stationary phase that excels at retention and recovery of labeled, released N-glycans. Available in microelution 96-well plate format that works well for processing and clean-up of limited sample volumes.

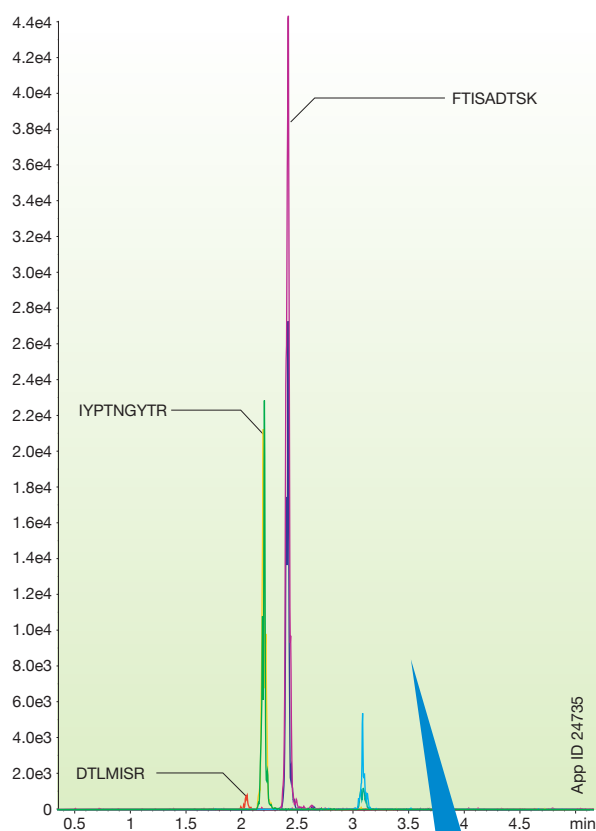
www.phenomenex.com/GlycanSPE

Peptide Quantitation

When quantifying signature peptides, sharp peak shape and sufficient retention of hydrophilic and hydrophobic peptides are pivotal. Both Biozen Peptide columns are developed to deliver orthogonal selectivities for highly chemically similar peptides. In addition to providing excellent peak capacity and higher sample loads for improved detection of low-level analytes, both peptide columns improve overall peak shape by minimizing unwanted secondary interactions of basic peptides. Biozen Peptide XB-C18 blocks secondary interactions via isobutyl side chains, while the Biozen Peptide PS-C18 contains a positively charged weak base that improves peak shapes, especially for basic peptides.

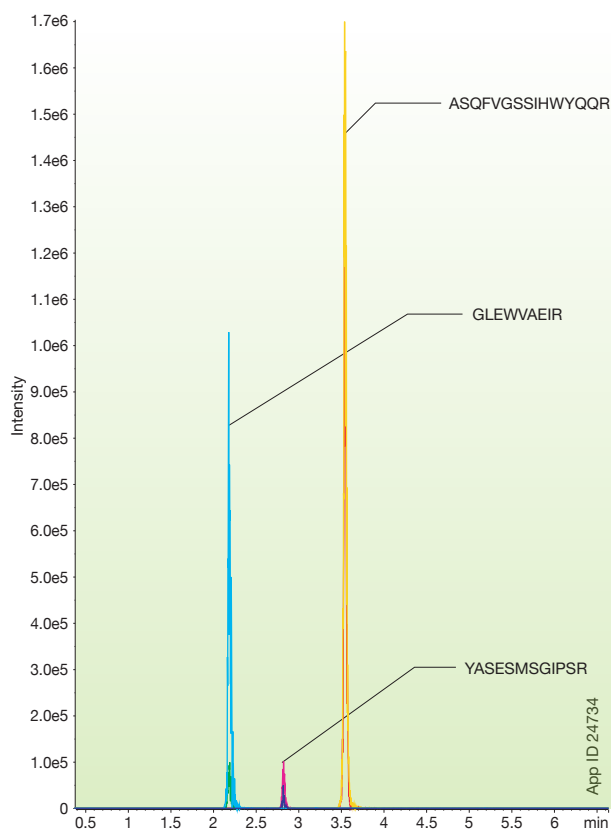
Kadcyla

(4 Signature Peptides)



Infliximab

(3 Signature Peptides)



Excellent peak symmetry and height make quantification of low-level peptides with PS-C18 efficient.

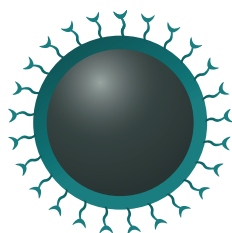
Conditions for both samples:

Column: Biozen 3 μ m Peptide PS-C18
Dimensions: 50 x 2.1 mm
Part No.: [00B-4771-AN](#)
Mobile Phase: A: 0.1 % Formic Acid in Water
B: 0.1 % Formic Acid in Acetonitrile
Gradient:

Time (min)	% B
0	3
1	3
4.5	25

Flow Rate: 0.5 mL/min
Temperature: 22 °C
LC System: ExionLC™ AD HPLC
Detection: MS/MS
Detector: SCIEX® QTRAP® 5500
Sample: As noted

Magnetic Bead Clean-up Available



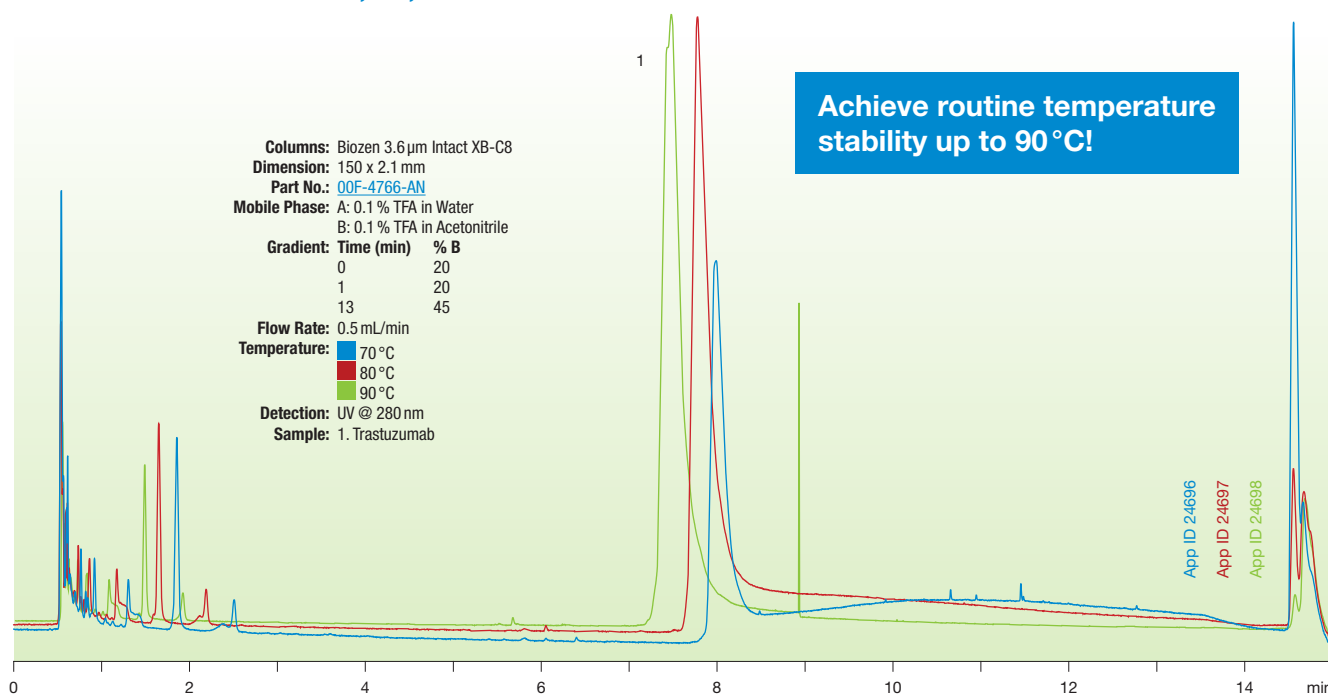
Streptavidin Coated

Biozen MagBeads utilize magnetic particles to offer higher binding capacity relative to traditional extraction techniques, resulting in a faster more reliable purification, clean-up, and isolation of proteins and peptide molecules.

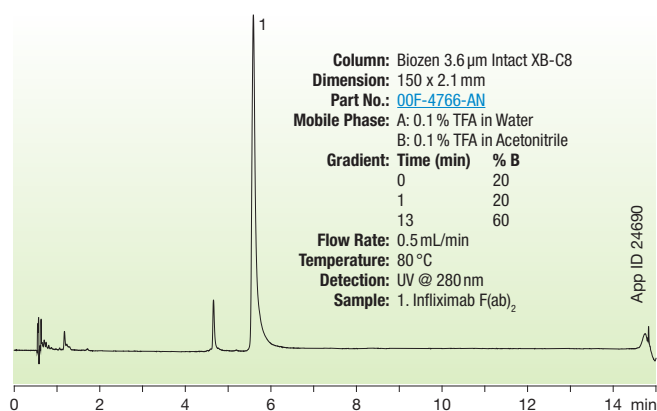
Intact & Subunit Analysis

Impurity profiling and characterization of intact proteins and their subunits are challenging because of the need to identify small differences between variants. Both Biozen intact columns are designed to offer faster mass transfer kinetics of large biomolecules through a large pore core-shell particle morphology that facilitates narrower, taller peaks. Thus, providing higher resolution between the target HC/LC, Fc/Fab, or chemically similar isoforms.

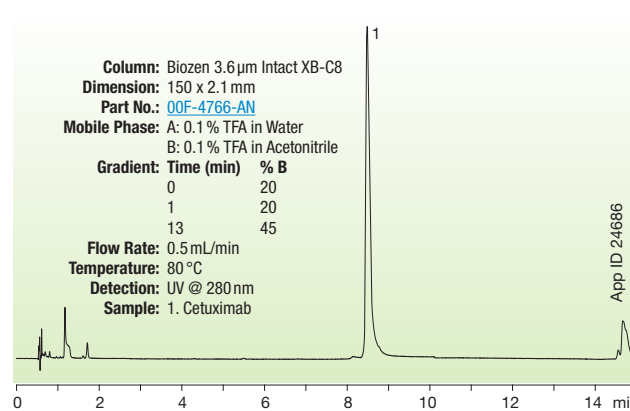
Intact Trastuzumab at 70, 80, and 90 °C



Infliximab F(ab)₂



Cetuximab



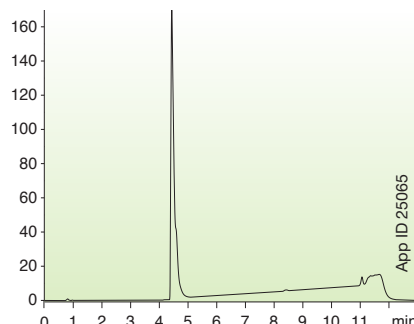
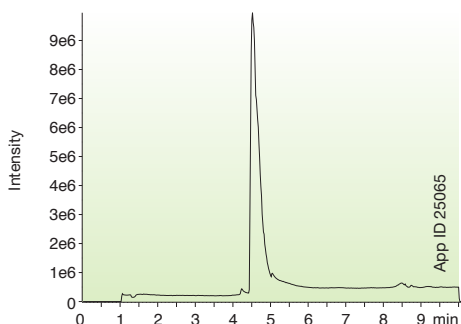
Intact Mass Analysis

Mass spectrometric analysis of intact proteins provides pivotal information required by regulatory agencies to ensure protein drug efficacy. Analysis offers accurate molecular weight information about the protein as well as relative abundance of its isoforms. This information often serves as a benchmark for characterizing further variabilities in PTMs, protein sequence, impurities and degradation products. Biozen WidePore C4 and Intact XB-C8 offer orthogonal selectivities for robust intact mass method development to facilitate fast run times and sharp peak shapes to maximize the information collected from MS characterization.

Intact Mass of Trastuzumab using a Biozen Intact XB-C8 and SCIEX® X500B

TIC

UV

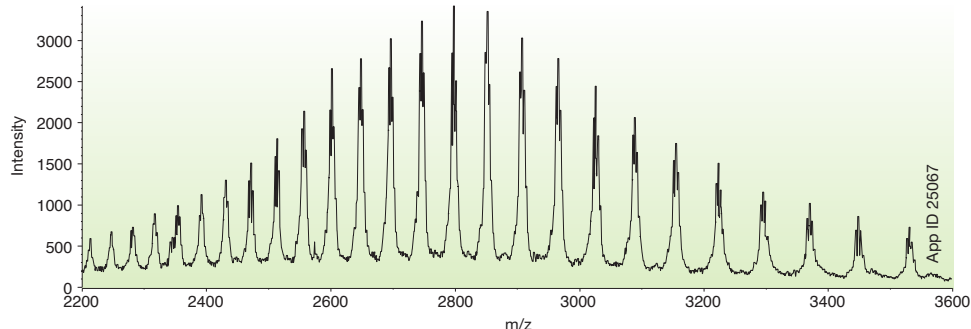


Columns: Biozen 3.6 µm Intact XB-C8
Dimension: 150 x 2.1 mm
Part No.: [00F-4766-AN](#)
Mobile Phase: A: 0.1% Formic Acid in Water
 B: 0.1% Formic Acid in Acetonitrile / Isopropyl alcohol (50:50)
Gradient:

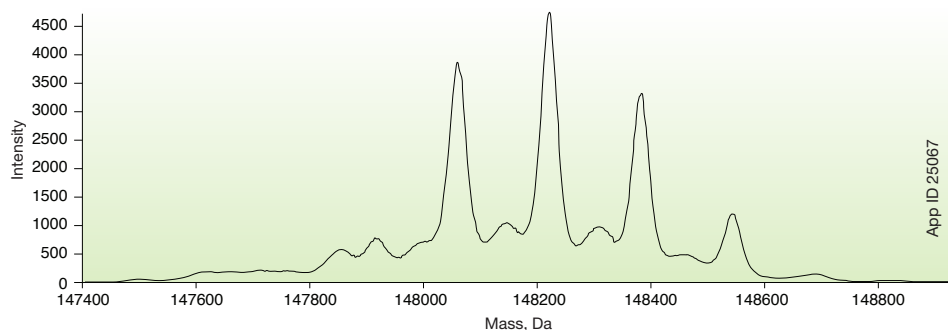
Time (min)	% B
2.5	20
10	65
10.1	95

Flow Rate: 0.3 mL/min
Temperature: 90 °C
Detection: QTOF (SCIEX X500B)
Sample: Trastuzumab

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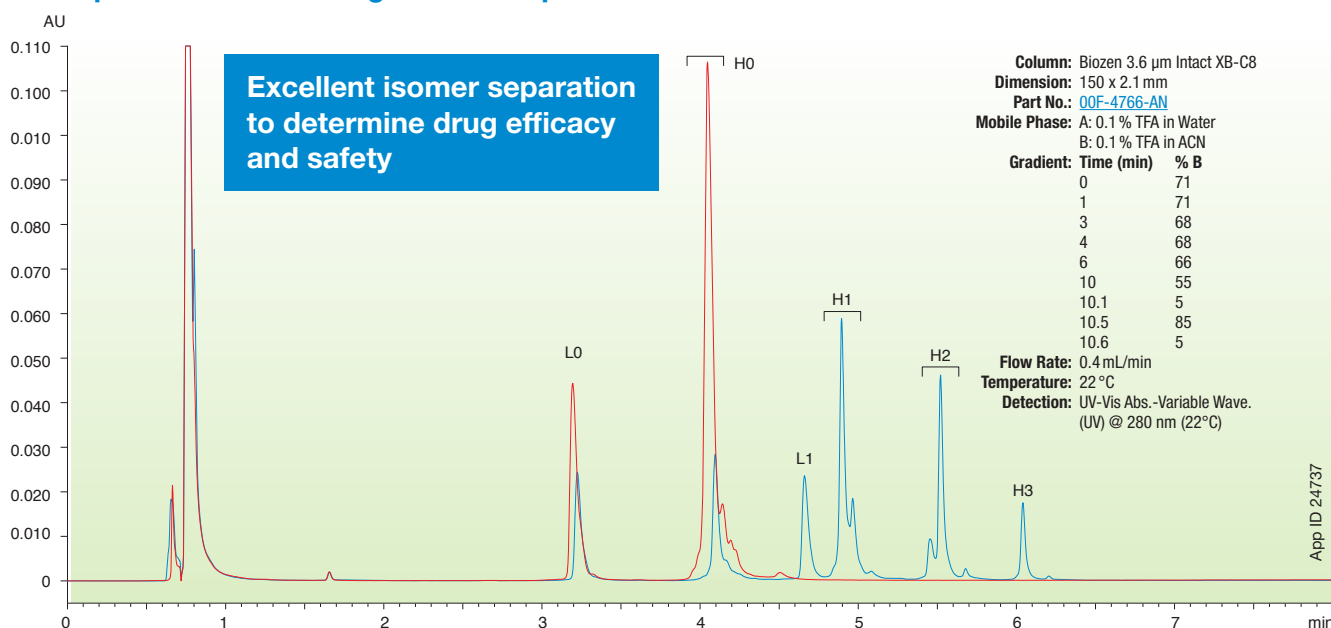
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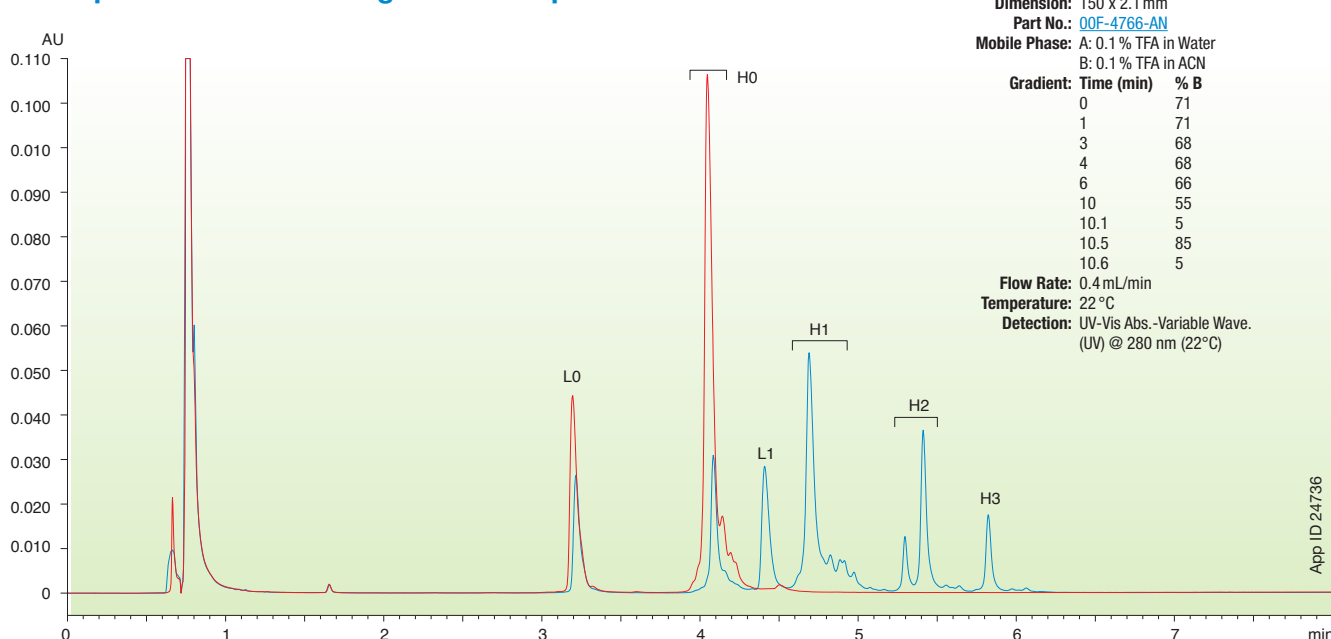
Drug to Antibody Ratio (DAR)

The drug-to-antibody ratio of ADCs must be well understood to determine drug efficacy and safety. The Biozen Intact XB-C8 is an excellent solution for determining drug load distribution and DAR for cysteine conjugated mAbs. Its large pore size allows intact ADCs to interact with a moderately retentive stationary phase while the core-shell particle supplies increased efficiency. With the ease of reverse phase method development combined with the resolving power of a moderately retentive, core-shell particle stationary phase, Biozen XB-C8 offers optimum separation and recovery between DAR species.

Herceptin – vcMMAE using Biozen 3.6µm Intact XB-C8



Herceptin – mcMMAF using Biozen 3.6µm Intact XB-C8



Sample Preparation Solutions & Vials

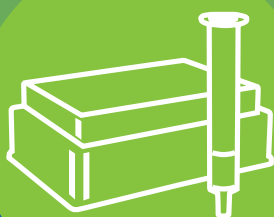
Oligonucleotide Extraction

Clarity OTX Solid Phase Extraction (SPE)

Prior to LC-MS analysis, therapeutic oligonucleotides must be isolated from interferences such as salts, sugars, large proteins, and genomic DNA. Using a mixed-mode solid phase extraction (SPE) sorbent in conjunction with carefully formulated buffers, Clarity OTX consistently reduces matrix effects and delivers high recoveries.

- Works for desalting and clean up of biological samples
- Formulated buffer solutions available for optimal performance
- Quick, simple 4-step protocols for rapid LC-MS/MS results
- No liquid-liquid extractions (LLE)

- Available in 96-well plate in 2 mg, 25 mg, 100 mg and 500 mg formats



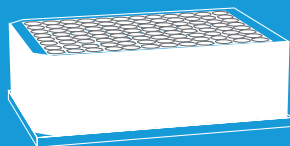
N-Glycan Clean Up

Biozen N-Glycan Clean-up SPE

Novel solid phase extraction (SPE) HILIC stationary phase that streamlines processing and clean-up of small volume samples to achieve high retention and recovery of labeled, released N-glycan compounds.

- Small volume format allows for more concentrated samples
- Minimal elution solvent
- Excellent retention and recovery of labeled, released N-glycans
- Faster, simple 5-step clean-up protocol to save on sample clean-up time

- Available in 96-well plate in 5 mg format



Immunocapture for Peptide Mapping

Biozen MagBeads Streptavidin Coated

Ideal for the purification, clean up, and isolation of proteins and peptide molecules using a paramagnetic affinity bead with a streptavidin coated surface. Magnetic beads offer a rapid solution compared to traditional sample preparation options by maximizing binding capacity with a uniform particle for accurate and reliable results in less time.

- Excellent for binding biotinylated capture antibodies
- Prevents ligand inactivation through non-specific binding correct formatting issue
- Improved recovery and accuracy
- >200 pmol biotin/mg binding capacity

- Available in 25mg, 50mg, and 500mg formats



High Recovery & Biocompatible Vials

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- 8 different vial formats to maximize sample recovery
- Polypropylene vials designed to mitigate non-specific binding to achieve high sample recoveries
- Compatible with all major LC vendors and ANSI-certified vial plates

- Standard, low-bleed and ultra-clean certifications to accommodate application demands
- Various formats and dimensions available to accommodate desired total and residual sample volumes



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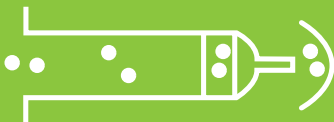
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Product Ordering Information

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
Biozen 2.6µm Glycan	00B-4773-AN	00D-4773-AN	00F-4773-AN	—	—	—	—	/3pk AJ0-9800	—	AJ0-9000
Biozen 1.6µm Peptide PS-C18	00B-4770-AN	00D-4770-AN	00F-4770-AN	—	—	—	—	/3pk AJ0-9803	—	AJ0-9000
Biozen 3µm Peptide PS-C18	00B-4771-AN	—	00F-4771-AN	00B-4771-E0	—	00F-4771-E0	—	/10pk AJ0-7605	/10pk AJ0-7606	KJ0-4282
Biozen 1.7µm Peptide XB-C18	00B-4774-AN	00D-4774-AN	00F-4774-AN	—	—	—	—	/3pk AJ0-9806	—	AJ0-9000
Biozen 2.6µm Peptide XB-C18	00B-4768-AN	00D-4768-AN	00F-4768-AN	00B-4768-E0	—	00F-4768-E0	—	/3pk AJ0-9806	/3pk AJ0-9808	AJ0-9000
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	/3pk AJ0-9816	/3pk AJ0-9818	AJ0-9000
Biozen 3.6µm Intact XB-C8	00B-4766-AN	00D-4766-AN	00F-4766-AN	00B-4766-E0	—	00F-4766-E0	—	/3pk AJ0-9812	/3pk AJ0-9814	AJ0-9000
Biozen 1.7µm Oligo	00B-4791-AN	00D-4791-AN	00F-4791-AN	—	—	—	—	/3pk AJ0-9822	ea KJ0-9000	
Biozen 2.6µm Oligo	00B-4790-AN	00D-4790-AN	00F-4790-AN	00B-4790-E0	00D-4790-E0	00F-4790-E0	—	/3pk AJ0-9822	ea KJ0-9000	

	50 x 2.1	150 x 2.1	150 x 4.6	300 x 4.6	150 x 7.8	300 x 7.8
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Biozen 3µm dSEC-2	—	—	00F-4788-E0	00H-4788-E0	00F-4788-K0	00H-4788-K0
Biozen 1.8µm dSEC-2	00B-4787-AN	00F-4787-AN	00F-4787-E0	00H-4787-E0	—	—

	30 x 4.6	40 x 7.8
Biozen 3µm dSEC-2 Guard	03A-4788-E0	03Q-4788-K0



Biozen 6µm WCX								for 4.6 mm		Holder
	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	/10pk	ea
	00B-4777-AN	00D-4777-AN	00F-4777-AN	00G-4777-AN	00B-4777-E0	00D-4777-E0	00F-4777-E0	00G-4777-E0	AJ0-9400	KJ0-4282

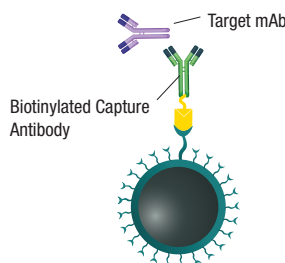
Sample Preparation

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 Coated

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



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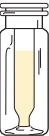
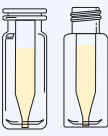



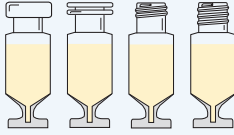
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Product Ordering Information

Clarity OTX			
Part No.	Description		Unit
KSO-8494	Clarity OTX Starter Kit-Tubes	Includes: 100 mg/3 mL cartridges (x50) Lysis-loading buffer (100 mL) Equilibration buffer (250 mL) Wash buffer (350 mL) Elution buffer (100 mL)	ea
KSO-9253	Clarity OTX Starter Kit-96-Well Plate	100 mg/ 96-well plate (x1) Lysis-loading buffer (100 mL) Equilibration buffer (250 mL) Wash buffer (350 mL) Elution buffer (100 mL)	ea
8M-S103-4GA	Clarity OTX Microelution Well Plate	2 mg/ well	1/box
8E-S103-CGA	Clarity OTX Well Plate	25 mg/ well	1/box
8E-S103-EGA	Clarity OTX Well Plate	100 mg/ well	1/box
8B-S103-EBJ	Clarity OTX Cartridge	100 mg/3 mL	50/box
8B-S103-HCH	Clarity OTX Cartridge	500 mg/6 mL	30/box
ALO-8579	Clarity OTX Lysis-Loading Buffer V2.0	1 L	ea



Verex 12 x 32mm Limited Volume Specialty Vials and Kits

	Type and Description	Finish	Material	Total Volume	Residual Volume	Available as	Page Number	Part Numbers
	High-Recovery CD Vial Center-draining	9 mm Screw Thread	Glass	1.5 mL	< 20 µL	Convenience Kits (certified and regular)	37 37 36 36	ARO-9981-13 ARO-9982-13 ARO-9985-13-C ARO-9986-13-C
	Max-Recovery CD Vial Center-draining	11 mm Snap or 9 mm Screw Thread	Glass	1.5 mL	< 2 µL	Vials (regular) Convenience Kits (certified)	34 36 36	ARO-3680-12 ARO-9987-13-C ARO-9988-13-C
	Insert Vial µVial i2V	11 mm Snap	Glass	500 µL	< 2 µL	Vials (regular)	34 34	ARO-3630-13 ARO-3631-13
	Insert Vial µVial i3 (Qsert)	11 mm Snap or 9 mm Screw Thread	Glass	300 µL	< 4 µL	Convenience Kits (certified and regular)	34 34 37 37 36	ARO-9671-13 ARO-9672-13 ARO-9973-13 ARO-9974-13 ARO-9974-13-C
	Insert Vial µVial i3 (Qsert)	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread	Glass	475 µL	< 4 µL	Vials (regular)	34 33 33 37 37	ARO-3625-13 ARO-3725-13 ARO-3726-13 ARO-3920-13 ARO-3921-13
	Insert Vial µVial i3 (Qsert)	10 mm Screw Thread	Glass	450 µL	< 2 µL	Vials (regular)	40 40	ARO-3020-13 ARO-3021-13
	Plastic Vial	9 mm Screw Thread	Polypropylene	1.7 mL 700 µL 300 µL	< 2 µL	Vials (certified and regular)	37	ARO-39P0-13 ARO-39P1-13 ARO-39P2-13
	Micro Vial with Tapered Base v-Vial	11 mm Crimp or 11 mm Snap or 9 mm Screw Thread or 10 mm Screw Thread	Glass	1.5 mL	< 4 µL	Vials (regular)	40 34 34 33 33 33 37 37	ARO-3040-13 ARO-3640-13 ARO-3641-12 ARO-3740-13 ARO-3741-13 ARO-3940-13 ARO-3941-13

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Biozen Oligo 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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