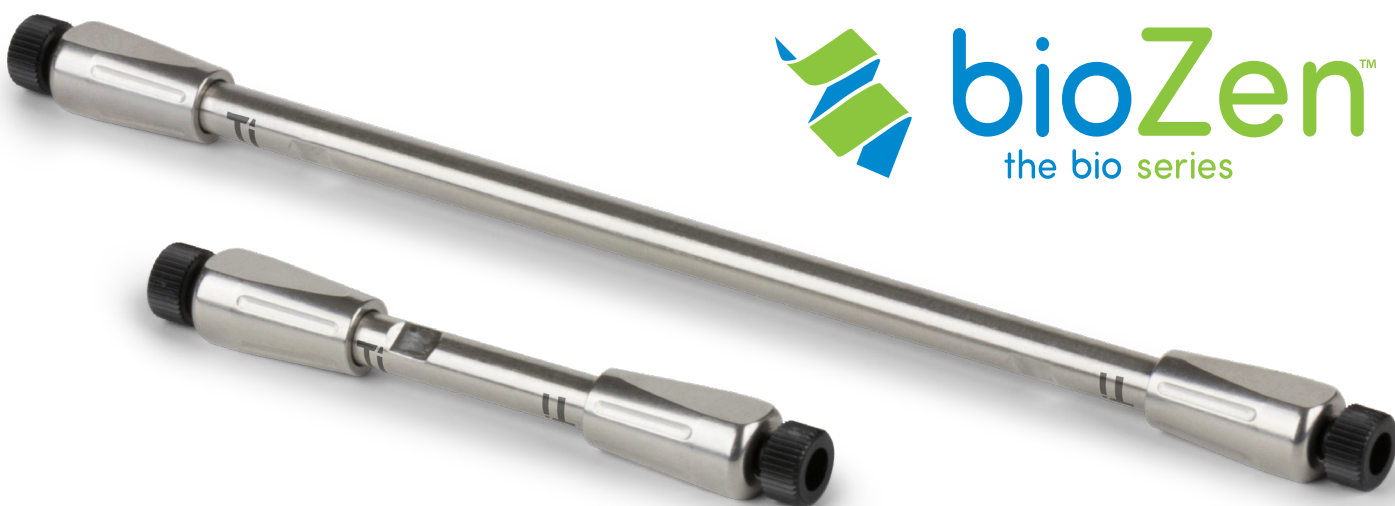


**bioZen™**  
the bio series

# TRANSITION TO BIOZEN WCX

From Thermo Scientific™ ProPac™ WCX-10  
to Ease Your Mind in Charge Variant Analysis



 **bioZen™**  
the bio series

- Exquisite separation of acidic and basic variants
- Excellent recovery
- Robust bioinert titanium flow path

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

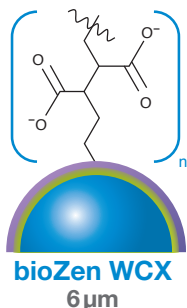


[www.phenomenex.com/bioZen](http://www.phenomenex.com/bioZen)

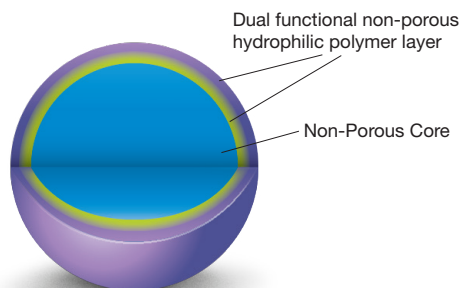
# Reliable Charge Variant Analysis

bioZen™ WCX was constructed with linear polycarboxylate chains grafted to monosized non-porous polymeric particles, to sinusously envelop and separate proteins from acidic and basic variants. With a highly tuned and controlled manufacturing process, bioZen WCX affords scientists a way to reproducibly characterize heterogeneity with an added advantage of excellent recovery using bioinert titanium column hardware.

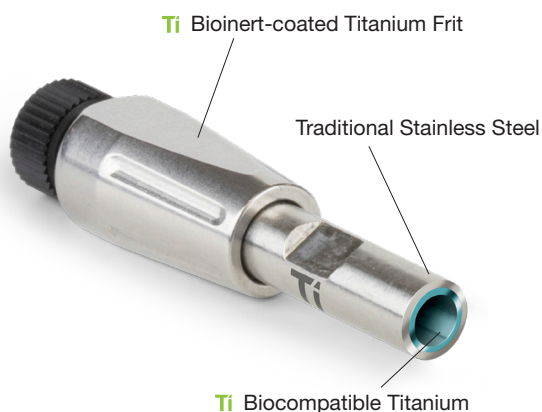
Give your MIND a break with this high quality particle chemistry designed and tested for biologics.



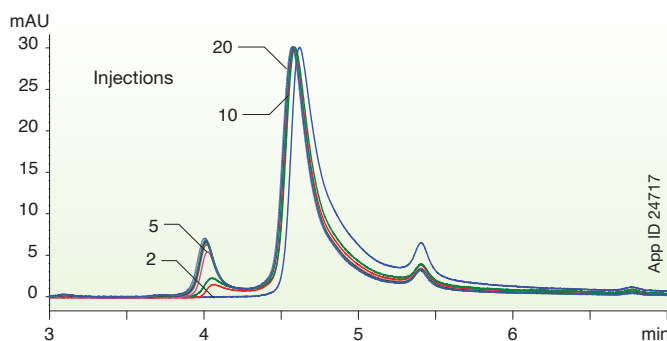
Monosized particles grafted with linear polycarboxylate chains to envelop and separate proteins from acidic/basic variants



Minimize your priming and promote better recovery with our BioTi™ biocompatible hardware.



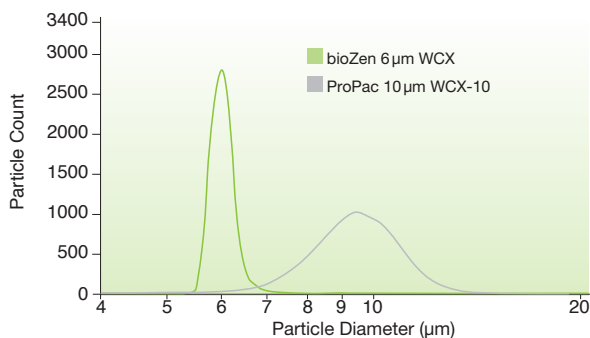
**bioZen Titanium BioTi Hardware**



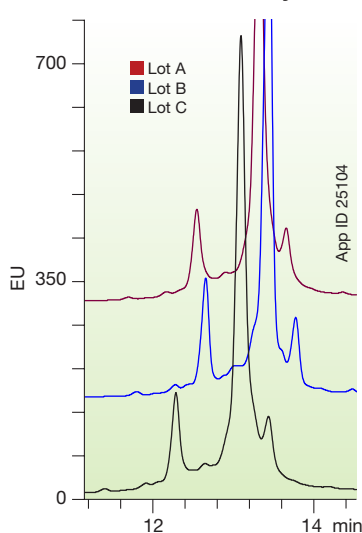
## Monosized Particles for Optimal Consistency

Our specially crafted polymeric particle is produced with outstanding precision so that you can be confident in increased performance and minimized variation between lots.

### Uniform Particle Size Distribution



### Lot-to-Lot Consistency



**Columns:** bioZen 6 μm WCX  
**Dimension:** 250 x 4.6 mm  
**Part No.:** 00G-4777-E0  
**Mobile Phase:** A: CX-1 Gradient Buffer A (pH 5.6)  
 B: CX-1 Gradient Buffer B (pH 10.2)  
**Gradient:** 0-100% B in 20 minutes  
**Flow Rate:** 1 mL/min  
**Temperature:** 30 °C  
**Detection:** FLD @ 280 nm/360 nm (ex/em)  
**Sample:** Trastuzumab

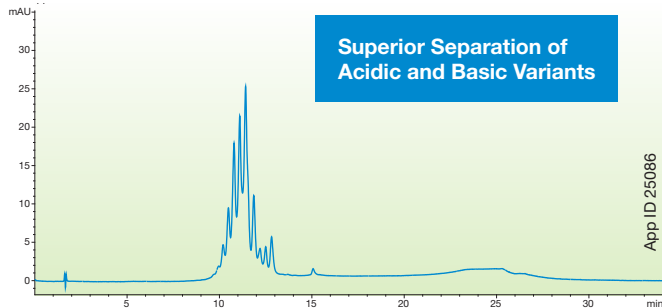
Note: CX-1 Gradient Buffers available from Thermo Fisher Scientific™

Comparative separations may not be representative of all applications.

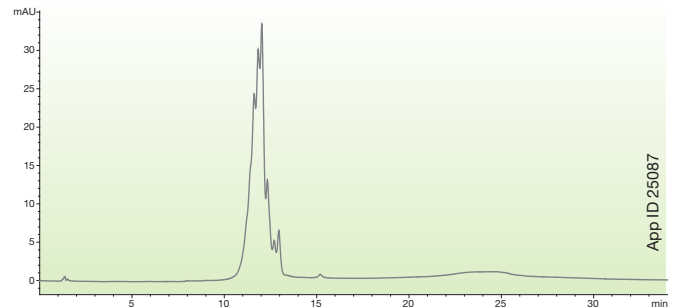
# Acidic and Basic Variant Analysis

Whether using a pH gradient or salt gradient, the bioZen™ 6µm WCX consistently outperforms ProPac™ WCX-10 in charge variant analysis.

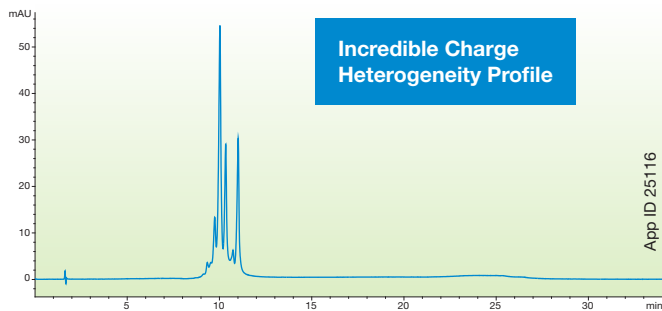
## bioZen 6µm WCX Cetuximab



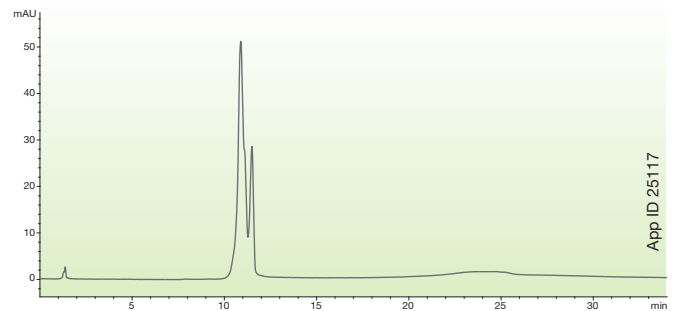
## Thermo Scientific™ ProPac 10µm WCX-10 Cetuximab



## bioZen 6µm WCX Infliximab



## Thermo Scientific™ ProPac 10µm WCX-10 Infliximab



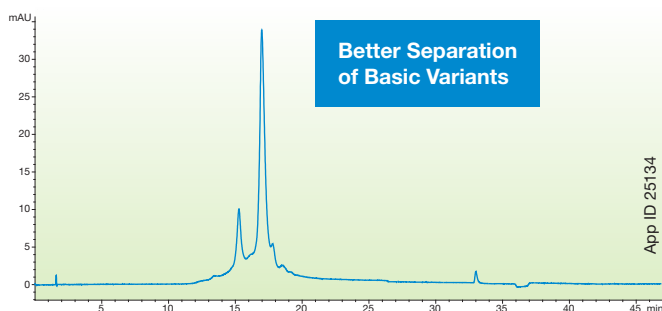
Conditions for all columns:

**Columns:** bioZen 6µm WCX  
ProPac 10µm WCX-10  
**Dimension:** 250 x 4.6 mm (bioZen)  
250 x 4 mm (ProPac)  
**Mobile Phase:** A: CX-1 Gradient Buffer A (pH 5.6)  
B: CX-1 Gradient Buffer B (pH 10.2)

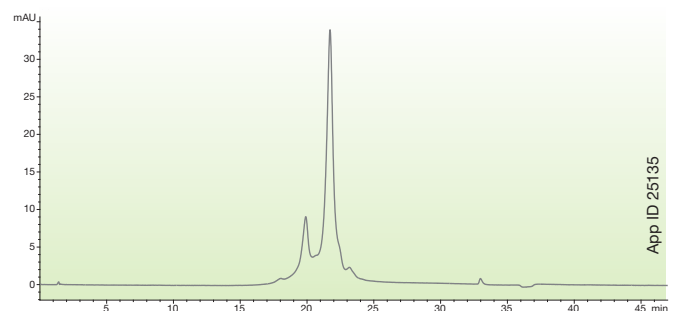
**Gradient:** 0-100% B in 20 minutes  
**Flow Rate:** 1.0 mL/min (bioZen)  
0.8 mL/min (ProPac)  
**Temperature:** 30 °C  
**Detection:** UV @ 280 nm  
**Sample:** As indicated

Note: CX-1 Gradient Buffers available from Thermo Fisher Scientific™

## bioZen 6µm WCX Trastuzumab



## Thermo Scientific ProPac 10µm WCX-10 Trastuzumab



Conditions for all columns:

**Columns:** bioZen 6µm WCX  
ProPac 10µm WCX-10  
**Dimension:** 250 x 4.6 mm (bioZen)  
250 x 4 mm (ProPac)  
**Mobile Phase:** A: 20 mM MES (pH 5.6)  
B: 20 mM MES + 300 mM NaCl (pH 5.6)

**Gradient:** 20-50% B in 20 minutes  
**Flow Rate:** 1.0 mL/min (bioZen)  
0.8 mL/min (ProPac)  
**Temperature:** 30 °C  
**Detection:** UV @ 280 nm  
**Sample:** Trastuzumab

Comparative separations may not be representative of all applications.

# 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



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guarantee

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