

Isolate Proteins and Peptides in

Less Time with Higher Response

Introducing bioZen MagBeads:
Streptavidin Coated Paramagnetic Beads



A hand is shown from the wrist up, palm up, holding a glowing, translucent sphere. The sphere has a bright white ring around its equator and a soft blue and white glow. The background is a deep purple and blue space scene with stars, nebulae, and a faint, glowing ring of Saturn in the upper right. The overall mood is serene and futuristic.

Find Your Sample Preparation State of Zen

Take a deep breath and let us take you
to a new state of biologics Zen. bioZen not only
is designed for your lab, but for the whole
self; mind, body, soul, and lab.

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?

YES

A product QC testing program to reflect
customer applications?

YES

A team of savvy protein and separation scientists
to back your endeavors?

YES

A promise to drive successful bioseparations
and fulfill the needs of our customers worldwide?

YES

We have so much more to offer you.

**Find your sample preparation
state of Zen.**



Uniform and Reliable Magnetic Beads

With a unique magnetic bead particle and rigorous specifications, bioZen MagBeads are created to ensure accurate binding of target proteins. Uniform beads make it easier than ever to ensure consistency and reliability.



bioZen MagBeads

- Ideal for binding biotinylated capture antibodies
- 1.0 μm streptavidin coated magnetic beads
- Available in 25 mg, 50 mg, and 500 mg formats

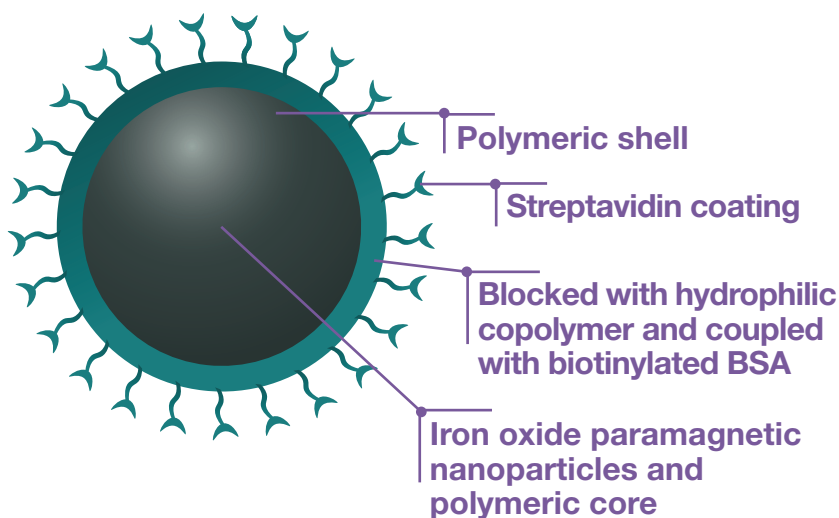
Specifications

Bead Type:	Iron coated
Bead Diameter:	1 μm
Outside Coating Type:	Streptavidin
Biotin Binding Capacity :	> 200 pmol Biotin/mg
Coating Specification:	Tosyl-Activated, blocked with hydrophilic copolymer
Concentration:	20 mg/mL
Available Formats:	25 mg, 50 mg, 500 mg

Non-saturated, accurate binding surface orientation

Blocked with copolymer and hydrophilic coupled with biotinylated BSA which:

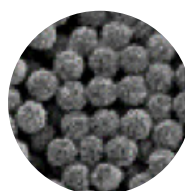
- Properly orients capture antibody
- Prevents surface crowding and ligand inactivation through non-specific binding
- Enhances dispersion of particles
- Improves binding efficiency



Uniform Particles

bioZen MagBeads offer smooth, even 1.0 μm paramagnetic particles providing an ideal surface for the streptavidin coating and making your purification steps even more effective!

Consistent and uniform beads make it easier than ever to automate your workflow and increase binding capacity to increase reactivity.



Uneven beads will cause:

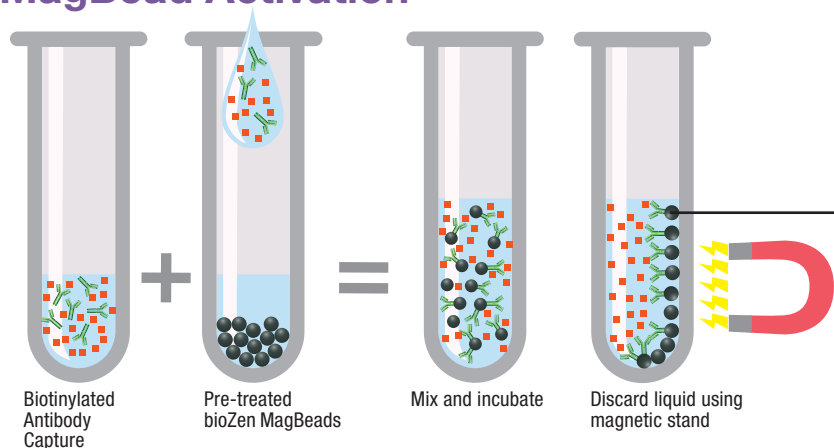
- Unpredictable results
- Variable binding capacity
- Inconsistent methods

Advanced Particle Platform

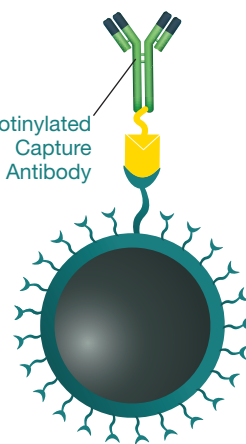
bioZen MagBeads are used for the purification, clean-up, and isolation of proteins and peptide molecules using a paramagnetic affinity bead with a streptavidin coated surface. Magnetic beads offer a rapid solution compared to traditional sample preparation options by maximizing high capacity binding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



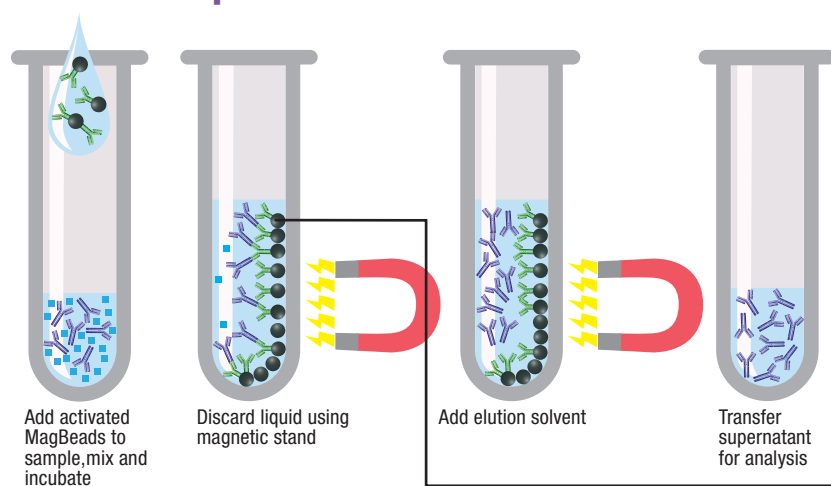
MagBead Activation



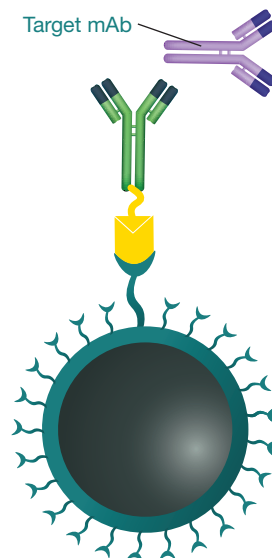
Biotinylated Capture Antibody



Immunocapture



Target mAb



Learn how to use bioZen MagBeads
at www.phenomenex.com/bioZenSP

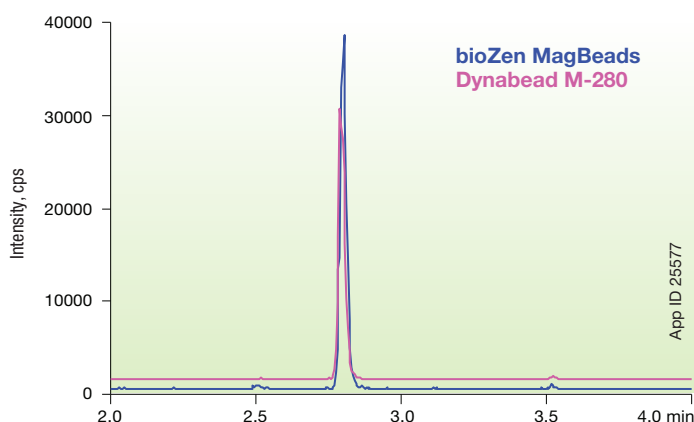
High Recoveries and Exceptional Consistency

In order to properly analyze specific Rituximab signature peptides from rat plasma, Rituximab must be targeted and isolated prior to digestion and analysis. To help achieve the desired assay linear dynamic range, bioZen MagBeads were utilized and compared with Thermo Fisher® Dynabeads™ magnetic beads. bioZen MagBeads display high sensitivity and reproducibility with low variation between samples and batches to be a guaranteed replacement in current immunocapture methods.



Rituximab Signature Peptide - ASGYTFTSYNMHWVK

Comparison of Dynabeads M-280 vs. bioZen MagBeads



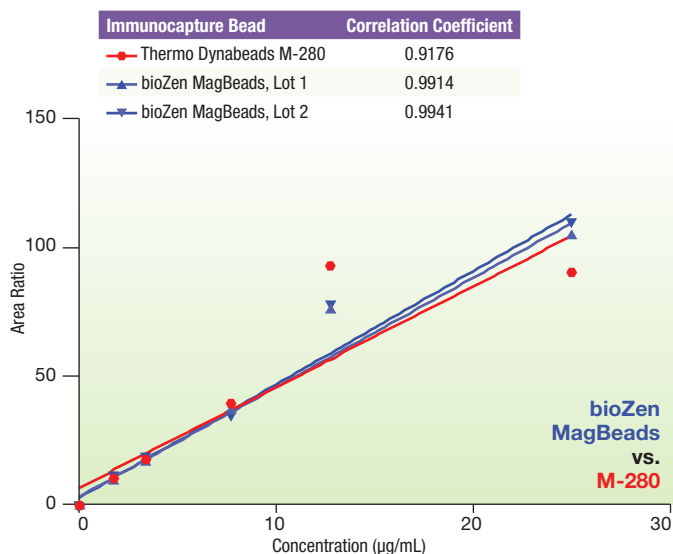
bioZen MagBeads offer **improved recovery and provides greater accuracy for the peptide quantitation.**

Column: bioZen 3 μ m Peptide PS-C18
Dimension: 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: 3-50 % in 4.5 minutes
Flow Rate: 0.3 mL/min
Temperature: 40 °C
Detection: SCIEX X500B Q-TOF
Sample: Rituximab 1.5 μ g/mL (ASGYTFTSYNMHWVK)

bioZen MagBeads Binding Activity Leads to Accurate and Sensitive Results

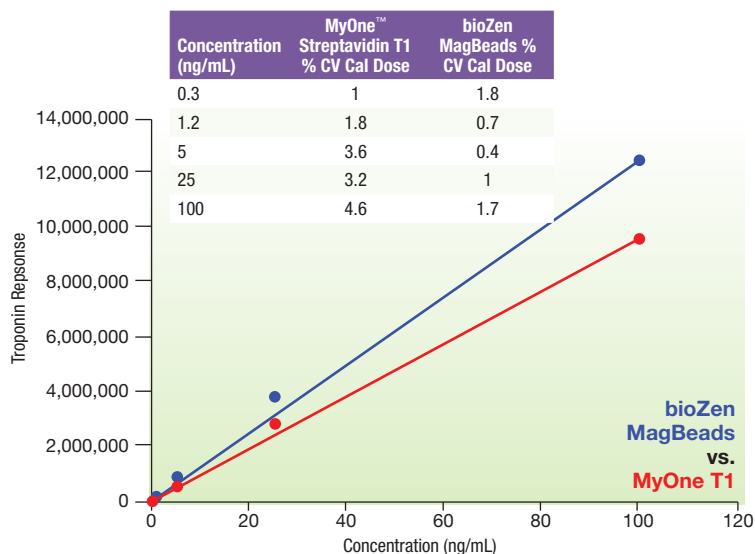
Rituximab

- Reduction in non-specific binding
- Excellent reproducibility lot-to-lot



Troponin

- Increased assay precision
- Improvements in response



Comparative separations may not be representative of all applications.

Ordering Information

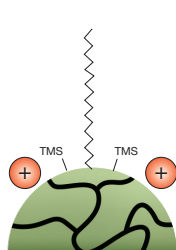


bioZen Products - Powered by Biocompatible Hardware

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
						3/pk	—	ea
bioZen 2.6 µm Glycan	—	00D-4773-AN	00F-4773-AN	—	—	AJO-9800	—	AJO-9000
						3/pk	—	ea
bioZen 1.6 µm Peptide PS-C18	00B-4770-AN	00D-4770-AN	00F-4770-AN	—	—	AJO-9803	—	AJO-9000
						10/pk	10/pk	ea
bioZen 3 µm Peptide PS-C18	00B-4771-AN	—	00F-4771-AN	00B-4771-E0	00F-4771-E0	AJO-7605	AJO-7606	KJO-4282
						3/pk	—	ea
bioZen 1.7 µm Peptide XB-C18	00B-4774-AN	00D-4774-AN	00F-4774-AN	—	—	AJO-9806	—	AJO-9000
						3/pk	3/pk	ea
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
						3/pk	3/pk	ea
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 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 1.8 µm SEC-2	00B-4769-AN	—	00F-4769-AN	—	—	—	00F-4769-E0	—	00H-4769-E0	AJO-9850	AJO-9000
bioZen 1.8 µm 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 6 µm 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

Recommended LC Phase for Use with bioZen MagBeads

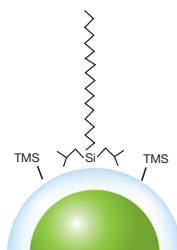


bioZen Peptide PS-C18

Fully porous, thermally modified with positively charged surface

Improved peak shape under formic acid conditions especially for later eluting peptides

1.6 µm and 3 µm



bioZen Peptide XB-C18

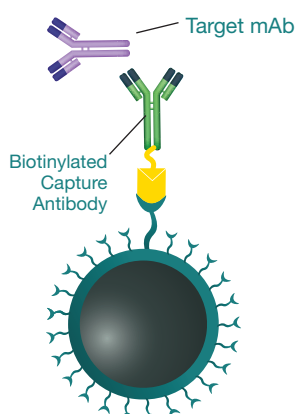
Core-shell particle with sterically hindered C18

Improved retention of hydrophilic peptides and orthogonal selectivity to traditional C18

1.7 µm and 2.6 µm

bioZen N-Glycan Clean-Up

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



bioZen MagBeads Streptavidin

Formats	Part No.	Price	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			

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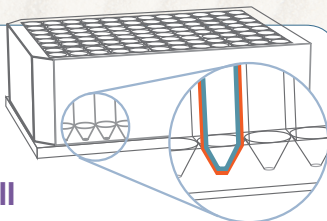
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