

bioZen MagBeads Frequently Asked Questions



Question

Answer

Can adjustments be made to the recommended protocol from the bioZen™ MagBeads user guide?	Yes, the starting method from the MagBead user guide is completely adjustable for different methods. Many labs have a unique workflow in which bioZen MagBeads will fit into as a an alternative but offer higher affinity for biotinylated antibody binding.
Can MagBeads be used in place of other magnetic beads?	Yes, bioZen MagBeads are uniform, high capacity paramagnetic beads that can be used in place of magnetic beads from other manufacturers and also can be used in place of ELISA for a faster and more reliable way to perform immunocapture.
How do you recommend adding the activated beads to the sample?	We recommend adding samples (double blank, blanks, unknowns, QCs, etc.) to the wells and then adding the activated and mixed MagBeads. Some methods will recommend adding the beads to the wells, removing the liquid and then adding samples to those same wells, which also works with our beads but most straightforward technique is usually applied first.
What concentration are bioZen MagBeads shipped in?	All bioZen MagBeads Streptavidin are sent out at a set concentration of 20 mg/mL to ensure consistency and reliability in every batch of MagBeads. If you notice any leaking of the tube upon arrival that may have been caused by transport, please notify your local Phenomenex representative to get a replacement.
What temperature or pH should bioZen MagBeads be stored at to ensure high binding activity? What is the shelf life?	Store bioZen MagBeads at 2-8°C upon arrival. They will be shipped in cold packaging, ensuring stability during the shipping process, but should be received and placed in a cool temperature-controlled environment for long term storage. The MagBeads are shipped in a Tris buffer with a pH of 7.4 and should stay suspended in this buffer until they are ready to be used. The shelf life of bioZen MagBeads is 12 months from date of shipment.
If am getting low antibody binding using magnetic beads for immunocapture, what could I do to improve the results?	Ensure that the MagBeads are fully mixed in between steps, this will ensure that the full binding capacity is met. The substantial mixing ensures that the antibodies are meeting the surfaces of the paramagnetic beads. You may need to increase the amount of biotinylated antibody to help increase the target binding activity.
How can I help improve the recovery of my target antibodies?	Ensure that the correct elution solvent is selected and confirm that the pH of the solvent is below 3. If you are still having recovery issues, reach out to our technical experts at www.phenomenex.com/chat and they can help.
What LC column is recommended to perform the analysis after immunocapture with magnetic beads?	bioZen Peptide PS-C18 and Peptide XB-C18 offer two different selectivities for peptide quantitation depending on the signature peptides being analyzed. bioZen Peptide PS-C18 displays excellent retention by combined positively charged surface ligand and C18 ligand. bioZen Peptide XB-C18 excels at overall retention of both acidic and basic peptides through C18 stationary phase with di-isobutyl side chains.
What type of equipment is required for set-up when working with bioZen Mag-Beads?	Some of the necessary equipment for set-up is a pipette, 96-magnetic separation device, 2 mL 96-Well Collection Plate, low protein binding (Phenomenex Part No.: AH1-7036), Sealing Tape (Phenomenex Part No.: AH0-7362), deep well plate thermoshaker and Verex™ vials. The low bind collection plates can be used with most magnetic separation devices and work well to reduce sample loss for sensitive results. To learn more about bioZen MagBeads, go to www.phenomenex.com/bioZenSP

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