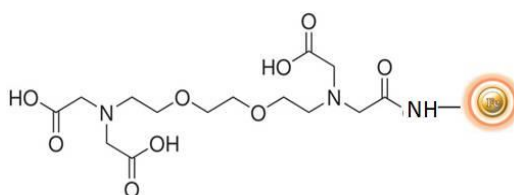


EGTA Metal Ion Removal Kit

Ethylene glycol tetraacetic acid (EGTA) is a chelating agent and a polycarboxylic amino acid. EGTA has a stronger affinity for calcium ions but a lower affinity for magnesium ions than EDTA. EGTA, like EDTA, can be used as a buffer to simulate the pH of a living cell. Because of this feature, EGTA can be used in Tandem Affinity Purification, a protein purification process. EGTA has a higher boiling point than EDTA.

BcMag™ EGTA Metal Ion Removal Kit uses magnetic beads coated with high-density EGTA (Ethylene glycol tetraacetic acid) functional groups on the surface. Compared to EDTA, EGTA has a higher affinity for calcium ions but a lower affinity for magnesium ions. The EGTA beads are an ideal tool for removing the metal ions such as Ca, As, Gd, La, Ni, Se, Zn, Co, Fe, Mg, Pd, Pt & Rh, etc.



EGTA structure

Features and Advantages:

- Quick, Easy, and one-step high-throughput procedure to chelate metal ions.
Eliminates columns or filters, and a laborious repeat of pipetting or centrifugation
- High capacity
- Reproducible results

Product Specificities	
Composition	Magnetic beads grafted with EGTA on the surface
Magnetization	~40-45 EMU/g
Type of Magnetization	Superparamagnetic
Molecular loading	0.78 mmol/g
Formulation	Lyophilized Powder
Best scavenger for	Ca, As, Cu, Gd, La, Ni, Se & Zn
Good scavenger for	Co, Fe, Mg, Pd, Pt & Rh.
Storage	Store at 4°C upon receipt.

Catalog # (BII01)	Catalog # (B-102)
150 mg	300 mg

Protocol

Magnetic Beads Preparation

1. Suspend the bead with dH₂O to 30mg/ml concentration.
2. Transfer the desired amount of magnetic beads to a centrifuge tube.
3. Place the tube on the magnetic separator for 1-3 minutes. Remove the supernatant while the tube remains on the separator. Remove the tube and resuspend the beads thoroughly with dH₂O. Place the tube on the magnetic separator for 1-3 minutes. Remove the supernatant while the tube remains on the separator.
4. The beads are ready to use.



Related Products	
Product Name	Product Name
One-Step Lipids Removal Kit	Quick Albumin Removal Kit
One-Step Deproteinizing Kit	Quick HSA and IgG Depletion Kit
One-Step SDS Removal Kit	One-Step Dye Removal Kit
One-Step Detergent Removal Kit	Quick Endotoxin Removal Kit
EDTA Metal Ion removal Kit	Immobilized TCEP Disulfide Reducing Kit
EGTA Metal Ion removal Kit	One-Step PCR Inhibitor Removal Kit
One-Step DNA and RNA Cleanup Kit	One-Step DNA and RNA Removal Kit
One-Step Sequencing Cleanup Kit	One-Step Single-Stranded DNA Removal Kit
One-Step Fluorescent Labeling Cleanup Kit	One-Step RNA Removal Kit
One-Step NGS Cleanup Kit	One-Step PCR Cleanup Kit