

PolyHunter MagBeads



Product	Catalog No.	Package size
PolyHunter Agarose (10 ml)	19205	5 ml
PolyHunter Agarose (100 ml)	19225	25 ml

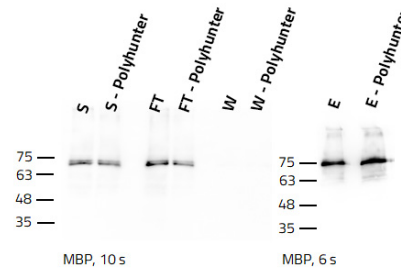
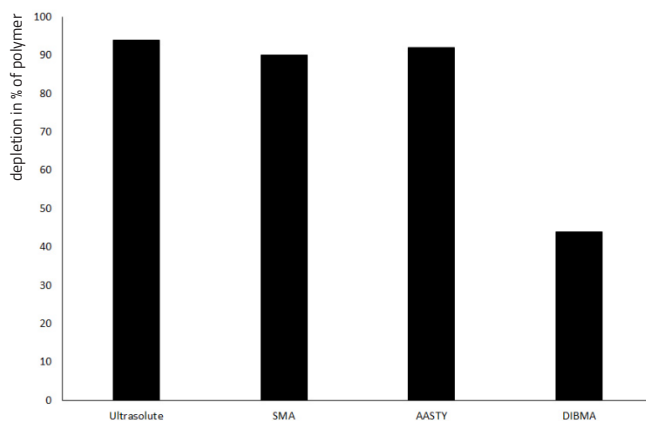


Figure 3: Affinity chromatography (AC) of a 9-transmembrane-domain protein. Each step of the protein purification procedure was performed with and without PolyHunter treatment.

S: Original solubilizates, both of them containing the same amount of protein

FT: Flow-through after the binding step of the AC. The PolyHunter treated flow-through contains less protein and therefore more has successfully bound to the affinity beads.

W: Wash fractions (near invisible), in both cases next to no protein was eluted during the washing steps.

E: Elution fractions, PolyHunter treated sample shows a higher protein yield.

Product Description

PolyHunter MagBeads were developed for the depletion of synthetic polymers used in solubilization steps. This matrix is based on spherical magnetic 6% cross-linked agarose. The material is highly porous to allow optimal polymer interaction. The novel PolyHunter magnetic agarose has excellent properties in batch purification. PolyHunter MagBeads have a particle diameter of 30 μm on average. Cross-linked magnetic agarose is also physically very stable, making it suitable for purification processes without deformation or destruction. Through their homogenous size and dispersion of magnetic particles you can achieve a high degree of reproducibility between individual depletion runs.

A hydrophobic ligand is coupled to the magnetic agarose matrix to obtain an affinity matrix with binding capacity for polymer residues.

PolyHunter MagBeads are delivered as a 25% (v/v) suspension so that 5 ml of suspension yield a 1.25 ml bed volume. The suspension contains 20% ethanol to prevent microbial growth.

Product Description

Depletion ability

The polymer depletion capacity is possible up to 99% polymer residue in your reaction volume, as determined by depletion of SMA, DIBMA, AASTYs and Ultrasolute™ Amphipol and quantified via UV-spectrophotometry.

Technical Details

Bead Ligand	hydrophobic alkyl groups
Bead size	30 µm medium diameter
Filling quantity	25% suspension (e.g. 5 ml slurry will be 1.25 ml pure beads + 3.75 ml storage buffer)
Depletion capacity	up to 99% depletion (tested with polymers SMA, DIBMA, AASTY and Ultrasolute™ Amphipol)

Shipping & Storage

Shipping Temperature	Ambient temperature
Short-term Storage	In neutral buffer at 4 °C
Long-term Storage	In neutral buffer with 20% ethanol at 4 °C

Additional Information

For the protocols and other related information about this product visit our homepage at: <https://cube-biotech.com/> and enter the catalogue number in the search bar above.

For depletion of polymers with FPLC®, we recommend using PolyHunter Agarose. For affinity purification of 6xHis-tagged, GST-tagged, Rho1D4-tagged or Strep®-tagged proteins, Cube Biotech offers dedicated agarose resins, magnetic beads and prepacked cartridges.

Also available are a range of ultrapure detergents and buffers for extraction and purification of proteins. See <https://cube-biotech.com/products/protein-purification-products/> for details.

Disclaimer

Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

Trademarks: FPLC® is a trademark of GE Healthcare.