FOR RESEARCH USE ONLY!

Multipurpose Mini Spin Columns

03/14

Store at Room Temperature.

Cat. No.: 6572-50 **50 Mini Spin Columns**

Salient Features:

Column Material:	Polypropylene
FRIT Material:	Polyethylene (PE)
Porosity:	20 µm
Bed Volume:	700 µl

Description:

Protein activity and functional studies rely largely on the availability of purified proteins. BioVision's Multipurpose Mini Spin Columns offer a convenient option to purify target proteins by multiple small scale laboratory techniques. Along with affinity purification and recombinant protein purification, these columns can also be used for techniques like immunoprecipitation, desalting etc. These spin columns are constructed of polypropylene with a polyethylene FRIT. They have a porosity of 20 µm and a total bed volume of 700 µl. Each of these columns can be packed with a variety of media/beads for centrifugation-based separation of biomolecules. The columns are equipped with tight top screw caps and a bottom plugs making them ideal also for storage of beads/media in buffers, incubation of beads with biological samples, etc.

Selected Applications:

- Immunoprecipitation and co-immunoprecipitation with protein A/G beads (Cat # 6501, 6503, 6511, 6513, 6520, etc).
- Antibody purification using protein A, G, L beads (Cat # 6501, 6503, 6511, 6513, 6520, 6531, 6541, etc).
- Affinity protein purification with beads like the EZEnrich™ Polyubiquitin Beads (Cat # 6568).
- Protein/DNA desalting using Sephadex G25 or Sephadex G50.
- Recombinant protein affinity purification of proteins with polyhistidine tag, GST tag, etc.

General Procedure

Note: This is a reference procedure for affinity purification. Modifications may be required based on the application. The centrifugation speeds depend on the bead type. Please follow the manufacturer's recommendation for best results.

1. Snap off the bottom plug of the column and **save** it for later use to plug the column during the elution step.
2. Open the top screw cap and place the column in a 2.0 ml microcentrifuge tube.
3. Load your resin/beads (packed bead volume: 10-500 µl) and spin it down once to remove the suspension solution.
4. Add the equilibrium buffer, centrifuge and discard the solution. Repeat this step twice if needed.
5. Close the column with the bottom plug (saved in step 1).
6. Carefully apply the sample to the column, close the top screw cap and mix end-over-end to incubate the sample.
7. Slightly loosen the top cap, remove the bottom plug and place the column in a microcentrifuge tube. Centrifuge once to collect the flow-through.
8. Place the column in another microcentrifuge tube, add the washing buffer, centrifuge and discard the solution. Repeat the washing as needed.
10. Close the bottom using the plug, add the elution buffer and tap the column gently to mix the beads and the elution buffer.
11. **Optional -** If boiling is required to elute the target protein, close both the top cap and the bottom plug and place column in a 1.5 ml tube. Heat the tube in a 100˚C heating block for 5 min to elute the proteins bound to the beads. Open the top cap first, before removing the bottom plug.
12. Place the column in a 1.5 ml microcentrifuge tube, and centrifuge to collect the eluate in the tube. Repeat the elution steps if needed.

RELATED PRODUCTS:

Hi-Bind™ Ni QR Agarose Beads (6562)
Heparin Sepharose (6553)
Glutathione Sepharose (6555)
Ready-to-use Ni QR Agarose Beads Buffer Kit (K6563-3)
Protein A-Agarose (6526)
Protein A-Sepharose Column (6508)
Protein G-Sepharose (6511)
Protein L-Sepharose (6531)
Protein A/G-Sepharose (6503)
Protein A/G/L-Sepharose (6541)
10K Spin Column (1997)
Heparin Sepharose Column (6554)
Jacalin Sepharose (6561)
Hi-Bind™ Protein A-Agarose (6520)
Protein A-Sepharose (6501)
Hi-Bind™ Protein G-Agarose (6513)
Protein G-Sepharose Column (6518)
Protein L-Sepharose Column (6538)
Protein A/G-Sepharose Column (6528)
Protein A/G/L-Sepharose Column (6548)

FOR RESEARCH USE ONLY! Not to be used on humans.

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