Instructions for using empty micro spin columns with size exclusion resin of your choice:

For Cat. No.: 2010-050, 2010-250, 2060-050, 2060-250, 2070-050, 2070-250

Epoch Life Science's empty micro spin column for size exclusion resin is made of virgin PP housing and PE frit. They are compatible with protein, nucleic acid desalting and purification procedures.

1. Prepare slurry of the resin of your choice. For example, a 7% Sephadex G50 in MilliQ water
2. Load 650 µl to 700 µl slurry to the column. For example, load 650µl 7% G50 slurry
3. Snap off the bottom closure
4. Place column in a 1.5 ml to 2.0 ml centrifuge tube
5. Centrifuge at 2000 RPM for 2 minute
6. Size exclusion resin in the column should form a solid gel plug with top surface slanting towards the center of the centrifuge
7. If gel plug is broken, re-apply the flow through to the column, re-balance your centrifuge and repeat step 5.
8. Make sure the bottom of the column has NO excess liquid, blot it with paper towel otherwise.
9. Transfer the column to another clean micro centrifuge tube.
10. Carefully and slowly apply up to 100 µl PCR reaction or protein sample to the center of the gel plug, don't disturb the surface
11. Place back the unit into centrifuge with the gel surface slanting towards the center of the centrifuge as in step 4.
12. Centrifuge at 2000 RPM for 2 minutes to collect the desalted higher MW PCR product or protein. Discard the column.

Salts, primers, dNTPs, small molecule enzyme inhibitors can be effectively removed by this procedure. PCR products or protein is now ready for downstream applications.

Long term storage of your size exclusion column:

Add 0.05% sodium azide as a bacterial growth inhibitor to the slurry. Seal the column with the screw cap comes with the column, and store at 4 degree. Columns are good for at least one year if stored this way.