Product Information

50ml Empty Column Set

Product Information for SD6609:

Introduction

One 50ml Empty Polypropylene Column set contain one Disposable Polypropylene Column, appropriate for 5-10ml gel beds, two Porous Polyethylene Discs, 30µm pore size, for use above and below the packed gel bed, one Top Cap, water-tight polypropylene caps for the column top and one bottom stopper, water-tight polypropylene caps for the column tip, are economical and convenient for packing gel supports for gravity-flow affinity and size exclusion chromatography procedures. The durable columns have leak-proof top and bottom caps that enable long-term storage of packed columns without risk of dehydration. The porous polystyrene discs, when positioned above and below the packed gel bed, confer a unique stop-flow action to the column. Solutions applied to a column will automatically stop dripping from the column tip when the surface of solution drains down to the top disc, thereby keeping air bubbles from being drawn into the gel bed and preventing the gel from drying out if the column is left unattended for brief periods of time. Also, use of a top porous disc prevents suspension of the gel when pouring or pipetting solutions into the column and ensures that the quantity of solution applied to the column always equals the volume of eluate emerging from the tip.

Package size:

Contain 10 of 50ml Empty Column set

Storage:

Upon receipt store at room temperature. Product shipped at ambient temperature

Procedure for Packing Gel into a Column

1. Equilibrate column, degassed 50% gel slurry, and degassed buffer solution (or water) to room temperature.
2. Secure a bottom stopper on the column tip and clamp the column upright in a laboratory stand.
3. Add 10-20ml of degassed buffer/water to the column ,then gently tap the end and side of the column to dislodge any air bubbles
4. Add a porous disc on top of the liquid within the column.
5. Using the reverse end of a Pasteur pipette or reverse end of a serum separator, push the disc evenly to the bottom of the column.
6. Decant most of the liquid from the empty column, being sure to avoid getting air bubbles in the tip region of the column below the inserted disc. Place the column back in its stand with bottom cap still in place
7. Add sufficient volume of degassed gel slurry to obtain the desired settled gel volume.
8. Allow gel to settle in the column for at least 20 minutes.
9. Position a second porous disc on top of the settled gel bed by floating it on the liquid within the column and pushing it down to just above the settled gel. Leave 5-10mm of space between the top of the gel bed and the top disc; do not compress the gel bed.

10. Wash the inside top part of the column with buffer/water to remove residual gel that may have remained along the sides during packing.
11. The packed column is now ready for storage or use.