

Non-GMP Packed Columns

0.8 x 10 cm (5 ml)
0.8 x 20 cm (10 ml)
1.1 x 10 cm (9.5 ml)
1.1 x 20 cm (20 ml)
2.6 x 10 cm (50 ml)
2.6 x 20 cm (100 ml)

General Information

Column body (i.e., the tube): made of acrylic. It has an appearance similar to a glass tube, i.e., clear, and transparent. This material is compatible to most commonly used aqueous chemicals.

WARNING: *It is not compatible with concentrated alcohols. 20% ethanol can be used for storage purpose. Do not use any alcohols greater than 20% v/v.*

End plunger: made of PP with polyamide support mesh (15 µm). Its O-ring is of NBR. They are inert to most aqueous buffers.

Connection: 1/16" female thread in both sides, compatible to most chromatography systems including AKTA.

Blue End Cover: Made of POM

Operating pressure: column hardware rating is less than **5 bar** (or 0.5 MPa, or 70 psi).

Instruction of Use

Each packed column is sealed with a pressured syringe at the **bottom** end of the column. It is then placed in sealed plastic bag.

1. Cut the plastic bag to take out the packed column with care.
2. Follow the flow direction to clamp the column to a vertical stand.
3. Unscrew the stop plug. Some liquid may come out.
4. Connect the column top to the inlet of the chromatography system.
5. Gently unhook the springs from the syringe using balanced force.
Unscrew the male-thread adaptor from the column and keep the storage syringe for later use.
6. Connect the bottom side of the column to the chromatography system.
7. Run at reduced flowrates to wash away the storage solution then run at increased flowrate until the column is equilibrated.

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Storage after Use

For short term storage, seal both ends of the column with stop plugs.

For longer term storage, follow the instructions:.

1. Flush the column with suitable storage solution (i.e., 20% Ethanol) for at least 3 CV's.
2. Stop the pump.
3. Suck the storage solution to fully fill the storage syringe (including the male-thread and the tubing part). Leave the syringe upside-down and push out the air bubble.
Adjust the liquid level inside the syringe to 3.5 ml to 4 ml (for 0.8 to 1.1 cm ID columns) or 11 to 12 ml (for 2.6 cm ID columns).
4. Carefully screw the male thread part of the syringe system to the outlet of the column.
Finger tight is enough.
5. Dis-connect the column top from the chromatography system.
6. Screw a 1/16" stop plug to seal the column top.
7. Use balanced force to hook the springs back the top shaft of the syringe.
8. Check and make sure no leakage.
9. Place the column in a cold room.

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