**Superdex resin column cleaning**

Solutions should be applied at 1ml/min or less.

## Light cleaning

1. Wash with one column volume (cv) of **0.5 M NaOH**. Do not let NaOH sit on the column.
2. Rinse with **H2O** until conductivity is low and stable, typically 2-3 cv.
3. Wash with one cv **20% (v/v) EtOH** (optional)
4. Rinse with one cv **H2O**.

## Heavy cleaning

1. Reverse the flow to the column.

Disconnect the tubing at the exit end of the column. Attached a 5 ml syringe to the column at the disconnected end. Flow ~1 ml through the column and into the syringe at 1 ml/min. Disconnect the tubing at the opposite end of the column; attach a second syringe to this end; and depressed the original syringe to fill the second syringe with ~0.5 ml. Now detach the original syringe; start the FPLC; depress the second syringe to produce a drop at the open end of the column tubing and connect this end to the line of the FPLC producing flow. Finally, detach the second syringe and attach the column tubing to the remaining disconnected tubing from the FPLC.

1. Wash with one cv of **1 M NaOH**. Do not let NaOH sit on the column.
2. Rinse with **H2O** until conductivity is low and stable, typically 3-4 cv.
3. Wash with one cv 30% (v/v) isopropanol.
4. Rinse with one cv **H2O**.
5. Restore the original flow direction to the column by reversing the process described in step 1.

**Sephacryl resin column cleaning**

Solutions should be applied at 1ml/min or less; do not exceed 0.15MPa pressure on the column

Protocols are the same as for Superdex resin except the concentrations of the cleaning solutions are *lower*.

**Light cleaning**

0.2M NaOH

**Heavy cleaning**

0.5M NaOH

30% Isopropanol