

Running Resource Q Column

Sample and Buffer Preparation

1. Prepare buffers:
 - a. QA: 100 mM KCl, 20 mM Tris pH 8.0, 1 mM MgCl₂, 10% Glycerol, 1 mM DTT
 - b. QB: 1 M KCl, 20 mM Tris pH 8.0, 1 mM MgCl₂, 10% Glycerol, 1 mM DTT
2. Filter (0.45 µm) and degauss (stir while filtering)
3. Filter (0.45 µm) sample

Pump and Column Wash

1. Under Manual Control: Pumpwash ON (A) and ON (B)
 - Automatically stops when completed (~5 min)
2. Perform Column position #2, Alarm Pressure 1.3 Mpa, Gradient 100% B, 5 min, Flow 2 mL/min
 - Automatically stops when completed (~5 min)
3. Perform Column position #2, Alarm Pressure 1.3 Mpa, Gradient 0% B, 0 min, Flow 2 mL/min
 - Stop after ~2 min

Resource Q Program Setup

1. Flow rate: 2.5 mL/min
2. Column Pressure: 1.5 MPa
3. Ave time UV: 5.1
4. Column Equilibrium: 5 CV
5. Flowthrough fraction (unbound): 8 mL
6. Sample Injection: 15 mL
7. Wash out unbound fraction: 5 CV
8. Fraction (gradient): 3 mL
9. Gradient Target B: 70%
10. Length of gradient: 20 CV
11. Gradient delay: 5 mL – extra volume after top of gradient reached
12. Clean out after elution : 5 CV
13. Re-equilibrate: 5 CV

Prepare for Running Samples

1. Put tubes in rack - ~50
2. Wash injection column (10 or 50 mL) with water then buffer using syringe
3. Connect injection column – top to position #6 and bottom to position #2
4. Inject sample to bottom of column - avoid bubbles

Run Program