#### ChromLab Method Report -SuperDex75XEG1-28-09-23



Fluidic Scheme: Created: 3/21/2024 11:27 AM Default Last Modified: 5/14/2024 10:50 AM Pump Head: F10 Control Flow Rate: Project: Scott No Size Exclusion Technique: pH Monitoring: No

Method Notes: METHOD DESCRIPTION: This method is used to separate molecules on the basis of molecular size. Sample is applied after column

equilibration, and eluted isocratically. Protein molecules separate and elute from the column according to their size (largest first).

COLUMN/SAMPLE: This method is designed for a 23-ml gel filtration column (but can be scaled to work with columns of different sizes. Typically, sample volumes should be 1-3 % of the column volume. The flow rate and max pre-column pressure limit vary depending on the selected column type.

MINIMUM REQUIRED DEVICES: Gradient Pumps A and B, Mixer module, Sample Inject Valve module, Single-Wavelength UV-Conductivity detector, BioFrac Fraction Collector

**METHOD PARAMETERS** Flow Rate 1.0 ml/min Sample Size: 2.0 ml Fraction Size 1.0 ml

Fraction Collector Rack: F1 (12-13 mm x 100 mm tubes)

### Fraction Collection:

| Phase | Rack Type / Outlet Valve | Max Fraction<br>Size (ml) |
|-------|--------------------------|---------------------------|
| 3     | F1                       | 0.50                      |

#### **Buffer Selection**

Inlet A: Buffer A 1 Inlet B: Buffer B

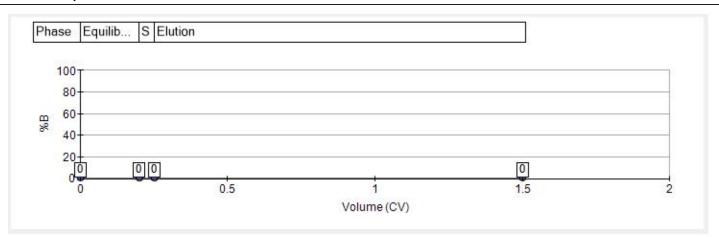
#### Columns

| Position | Name                  | Volume   | Max Pre Column<br>Pressure | Max Delta Column<br>Pressure | Default Flow<br>Rate | Max Flow Rate |  |
|----------|-----------------------|----------|----------------------------|------------------------------|----------------------|---------------|--|
| N/A      | Superdex 75 10/300 GL | 23.56 ml | 200 psi                    | 200 psi                      | 0.5 ml/min           | 1 ml/min      |  |

#### **UV Detector**

Wavelengths: 214 nm, 260 nm, 280 nm

#### **Gradient Graph**



Page 1/2 Report Time: 11/5/2024 3:38 PM

# ChromLab Method Report -

# SuperDex75XEG1-28-09-23



### Method Steps

| Step# | Total Vol<br>(CV) | Step Description                          | Vol (CV) | Flow Rate (ml/min) | %В | Phase              | Step Parameters                               |
|-------|-------------------|---|----------|--------------------|----|--------------------|---|
| 1     | 0                 | Gradient Segments                         | 0.2      | 0                  | 0  | Equilibration      | Forward Flow                                  |
| 1.1   | 0.2               | Isocratic Flow                            | 0.2      | 0.3                | 0  | Equilibration      | Buffer A 1, Buffer B                          |
| 2     | 0.2               | Hold Until (Disabled)                     | 0        | 0                  | 0  | Equilibration      |   |
| 3     | 0.2               | Zero Baseline                             | 0        | 0                  | 0  | Equilibration      |   |
| 4     | 0.2               | Fraction Collection (Waste)               | 0        | 0                  | 0  | Sample Application |   |
| 5     | 0.2               | Load Inject Sample                        | 0.05     | 0                  |    | Sample Application |   |
| 5.1   | 0.25              | Inject Sample                             | 0.05     | 0.3                | 0  | Sample Application | System Pump Inject Loop, Buffer A 1, Buffer B |
| 5.2   | 0.25              | Change Valve (Sample Inject Valve)        | 0        | 0                  |    | Sample Application | Manual Load Loop / System<br>Pump to Column   |
| 6     | 0.25              | Fraction Collection (Frac. Size: 0.50 ml) | 0        | 0                  | 0  | Elution            | Scheme: Collect All (BioFrac)                 |
| 7     | 0.25              | Gradient Segments                         | 1.25     | 0                  | 0  | Elution            | Forward Flow                                  |
| 7.1   | 1.5               | Isocratic Flow                            | 1.25     | 0.3                | 0  | Elution            | Buffer A 1, Buffer B                          |

Page 2/2 Report Time: 11/5/2024 3:38 PM