

Table 1. Summary of TFF Modules Used for Purification of Activated Polysaccharide

| Module Name | Surface Area (cm ²) | Membrane Chemistry | Nominal Molecular Weight Cut-Off (kDa) | Screen Type | Catalog Number |
|---|---------------------------------|------------------------|--|-------------|----------------|
| Pellicon [®] TFF Cassette (Small Scale) Biomax [®] membrane | 88 | Polyethersulfone (PES) | 30 | A | P3B030A00 |
| Pellicon [®] TFF Cassette (Small Scale) Ultracel [®] membrane | 88 | Regenerated Cellulose | 30 | C | P3C030C00 |
| Pellicon [®] TFF Cassette (Large Scale) Ultracel [®] membrane | 1100 | Regenerated Cellulose | 30 | C | P3C030C01 |
| Pellicon [®] TFF Capsule (Large Scale) Ultracel [®] membrane | 1000 | Regenerated Cellulose | 30 | C | PCC030C01 |

Table 2. Summary of TFF Operating Conditions

| Module Name | Diafiltration Buffer (g/L) | Diafiltration Concentration (g/L) | Cross Flow Rate (L/min/m ²) | Number of Diavolumes | Membrane Loading (g/m ²) |
|-------------|----------------------------|-----------------------------------|---|----------------------|--------------------------------------|
| All Modules | WFI | 2.5 | 3.5 | 20 | 20 |

Table 3. Sieving coefficient for clearance of quenching reagent for modules considered in this study

| Module Name | Sieving Coefficient \pm Error ¹ | R ² |
|---|--|----------------|
| Pellicon [®] TFF Cassette (Small Scale) Biomax [®] membrane | 0.65 \pm 0.03 | 0.99 |
| Pellicon [®] TFF Cassette (Small Scale) Ultracel [®] membrane | 0.58 \pm 0.06 | 0.96 |
| Pellicon [®] TFF Cassette (Large Scale) Ultracel [®] membrane | 0.64 \pm 0.04 | 0.97 |

| | | |
|---|-----------------|------|
| Pellicon [®] TFF Capsule (Large Scale) Ultracel [®] membrane | 0.69 ± 0.04 | 0.99 |
|---|-----------------|------|

¹The errors in the sieving coefficient were calculated through error propagation analyses considering 20% relative error in concentration assay results.

Table 4. Sieving coefficient for clearance of periodate/iodate for modules considered in this study

| Module Name | Sieving Coefficient \pm Error ¹ | R ² |
|--|--|----------------|
| Pellicon [®] TFF Cassette (Small Scale) Biomax [®] membrane | 0.50 ± 0.03 | 0.97 |
| Pellicon [®] TFF Cassette (Small Scale) Ultracel [®] membrane | 0.55 ± 0.02 | 0.99 |
| Pellicon [®] TFF Cassette (Large Scale) Ultracel [®] membrane | 0.56 ± 0.02 | 0.99 |
| Pellicon [®] TFF Capsule (Large Scale) Ultracel [®] membrane | 0.55 ± 0.02 | 0.99 |

¹The errors in the sieving coefficient were calculated through error propagation analyses considering 20% relative error in concentration assay results.