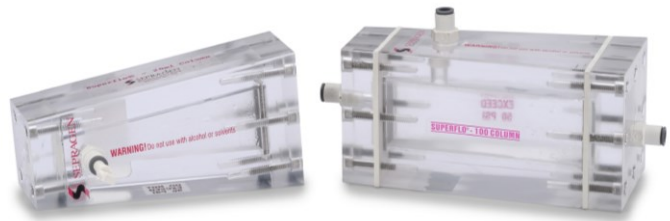




Wedge® Column

True Scaled down Model of Process Scale Superflo Columns

Column chromatography is being extensively used as a tool for purifying small quantities of biomolecules from complex mixtures. However, its application for the production of biomolecules from crude sources, in commercially viable quantities, has been restricted. One of the reasons is that until now there has not been much effort put into "in-tandem" design of both production scale and lab scale columns. Consequently, conventional axial process scale columns are not able to support the low cost and high capacity softer media without resulting in high back pressures, over compacting and curtailed resolution. Further, since the separation has to be optimized continuously as the scale of operation changes, valuable time and resources may be sacrificed. Frequently, this can make the difference between finishing successful research and quickly bringing a product into market at a reasonable cost.



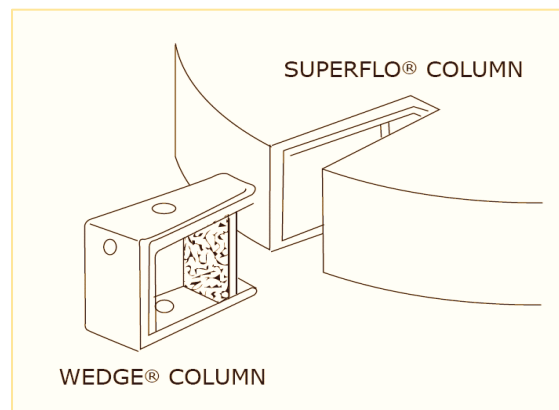
Sepragen's dedicated process chromatographic engineers and scientists have responded to this scalability problem by designing the WEDGE® radial column. The WEDGE® fully exploits the separation capability and high capacity of low cost soft media as well as the faster flow media currently available. It does this without compromising performance in terms of chromatographic separation, efficiency and productivity. WEDGE® columns incorporate the patented design of radial flow and traditional axial flow column chromatography. This permits simple linear scale-up of your bioprocess from lab scale axial columns to large-scale radial flow chromatographic columns.

- ✓ True Linear Easy Scale-up
- ✓ Easy Validated Packing method
- ✓ High Flow Rates
- ✓ Low Back Pressure

- ✓ High Productivity
- ✓ Higher Yields
- ✓ Superior Distribution
- ✓ Consistency in Performance

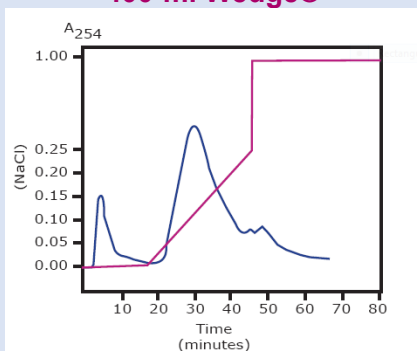


The Wedge – A section of the Process scale Superflo Columns



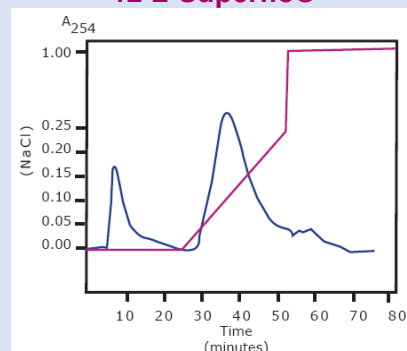
SCALE-UP OF 400ML WEDGE® TO 12L

400 ml Wedge®



System: QuantaSep® 1000
Sample: 20 mls Bovine Serum
Flow Rate: 95 ml/min
Media: DEAE
Protein Content: 7.1 grams/100ml Diluted serum
Buffer: 0.05 M Tris-HCl, pH 7.1
Gradient: 0.25 M NaCl in Tris Buffer

12 L Superflo®



System: QuantaSep® 5L ISOLC
Sample: 600 mls Bovine Serum
Flow Rate: 2850 ml/min
Media: DEAE
Protein Content: 7.1 grams/100ml Diluted serum
Buffer: 0.05 M Tris-HCl, pH 7.1
Gradient: 0.25 M NaCl in Tris Buffer



Wedge Columns Sizes and Materials

Wedge® Columns come in various sizes or they can be customized to your specific needs. Our standard Acrylic Wedge® columns come in sizes 5 mL to 1000 mL with 10 cm bed height. The standard Stainless Steel Wedge® Columns range in size from 250 mL to 1000 mL with 10 cm bed height. The Stainless Steel Wedge® Columns come with 10 micron stainless steel frits. Columns exhibit excellent chemical resistance in the range of pH 2-12.

To learn more call: (510) 475-0650

E-mail: info@sepragen.com

SEPRAGEN
Innovators in Bioprocessing

33470 WESTERN AVE, UNION CITY, CA 94587
PHONE: 510-475-0650 FAX: 510-440-5395
[HTTP://WWW.SEPRAGEN.COM](http://WWW.SEPRAGEN.COM)