

Power-Sep™

Biomolecule separation & purification

The Power-Sep™ System is a fully automated liquid chromatography system, capable of automating the purification and production of biomolecules using chromatography techniques such as ion exchange, gel filtration and affinity chromatography.

The Power-Sep™ System has the unusual flexibility to run laboratory, pilot or full scale production employing the same basic unit. The Power-Sep™ System can be expanded to control multi-column and multi-sample applications. The DMS-6000 Data Management Software allows real time plotting and automatic documentation of purification data.

Cost Effective Automation of Manual Purification



Features

- Chromatography Cleanup
- Real-time plotting of UV, pH, Conductivity, and Temperature
- Purification parameters can be changed during the run.
- Ability to save UV, pH, conductivity and temperature data every 0.5 seconds
- Flow rate ranges 0.02 ml ~ 1000 ml/min
- Saved data can be reviewed and compressed.
- Method development tool
- Runs from small scale to production scale purification.

Precision

The heart of the Power-Sep™ System is FMS's patented calibration process. It is capable of learning the optimum purification conditions and reproducing the same purification conditions over and over again.

Flowrates & pumphead

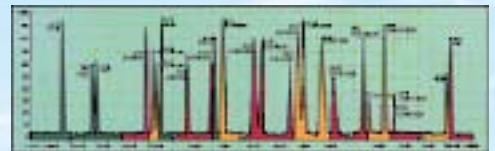
The Power-Sep™ System allows you to program a range of flow rates from 0.020 to 1000 ml/minutes with the same basic unit. For large scale purifications, higher flow rate pumps are available.

The Power-Sep™'s modular pumphead design allows you to choose the best size and type of pumphead for your primary process and optional pumpheads for other processes. We offer a variety of different pumphead materials including Teflon, ceramic, stainless steel, kynar and tygon. Pumpheads can be manually replaced in less than a minute.

Software: Graphs and Tables

The purification data; UV, pH, and conductivity, can be superimposed on one screen. The Power-Sep™ DMS-6000 Software allows you to review saved data from up to four runs on your display screen at once.

The saved data can be printed as a graph or a table along with the corresponding purification program.



Scale-up

Unlike other commercial systems, which have been marketed for either laboratory, pilot, or process scale purification, the Power-Sep™ System is designed to be used from laboratory to production scale purification with the same basic unit. The modularity of the Power-Sep™ allows the transition from small to large scale purification to be as easy as replacing the pump and the valve modules. This feature of the Power-Sep™ System saves money and makes the process development and scale-up an easier task.

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