When you say "why FPLC" you are halfway there...

... because Superose™ from Pharmacia is the peak of evolution in high performance gel filtration for the separation of labile biomolecules.

Over the past 25 years, Pharmacia has developed a broad range of chromatography media, including Sephadex®, Sepharose®, Sephacryl®, MonoBeads™, ProRPC™, and PepRPC™, together with the FPLC System, to meet the ever-growing requirements of experienced, innovative and demanding groups of researchers throughout the world.

Now, the FPLC System and Superose from Pharmacia allow you to use high performance gel filtration without the limitations imposed by silica and stainless steel.

With the introduction of Superose, the Pharmacia range of high performance chromatography media, including MonoBeads, ProRPC and PepRPC, has been extended to provide you with gel filtration media for fast, high resolution separations of biomolecules, from small peptides to large proteins and DNA-fragments.

Superose pre-packed glass columns with high chemical and pH stability, up to pH 14, provide you with unequalled flexibility in your choice of eluents and greatly simplify your column cleaning routines.

Superose allows you to perform rapid separations (20–60 min) while obtaining high resolution and high recovery, facilitating and improving your work in research, quality control or process development.

Superose has been especially developed for bioscientists and is optimized for high performance separation of proteins, DNA-fragments, peptides and other biomolecules.
This one combines

If it's genuine versatility you're looking for, then you need look no further than the LKB Vertical Electrophoresis System. With a dual gel capacity that allows you to run up to 40 samples at a time, its design ensures that all gels are always run under uniform conditions, thereby guaranteeing superior reproducibility. And now we have further enhanced the already impressive versatility of this system by adding a 30 cm gel capability for even higher resolution, a tube gel kit for greater 2-D flexibility, and the new LKB Transphor Electroblotting Unit for improved visualization.

No grease, no leaks, no mess
One clear benefit of using the LKB Vertical Electrophoresis System is the simplicity it brings to the job of gel casting. The basic system includes everything you need to cast and run perfect gels first time, every time. The gels are cast between glass plates, avoiding both the use of grease and the probability of leaks and turning gel casting into a clean and pleasant activity.

The Tube Gel Kit allows the LKB system to perform both the first and second dimensions in 2-D applications.

PAGE and gradient PAGE techniques
Conventional PAGE and SDS/PAGE techniques, using either continuous or discontinuous buffers, are fully catered for by the basic LKB system. The addition of our Gradient Gel Kit provides a quick and convenient method of casting both linear and exponential gradient polyacrylamide gels. Due to their relatively small pore size, these gels effectively limit diffusion. Linear gradients counteract band broadening effects, while exponential gradients are useful for resolving components with widely differing molecular weights.

The Vertical Electrophoresis System, based on the LKB 2001 Electrophoresis Unit, also includes a power supply, thermostatic circulator and all the necessary accessories, kits and quality chemicals.

THE LKB SYSTEMS APPROACH
At LKB we believe that we should be able to give you professional training, advice and support in the use and application of our products. And we should certainly be able to supply you with everything you need to perform your experiments, so you never have to worry about where each item comes from, how good it is, whether it will work properly with all the other pieces of apparatus, and who to turn to when you have problems. That is why we offer complete integrated systems, not merely a range of individual units. LKB systems contain all the instruments, kits, chemicals, accessories and supplies you will need in your laboratory. Every component of the system is designed to work together with and enhance the high performance of all the other components. Every item carries our name, and we take full responsibility for it.

LKB - the electrophoresis experts
different techniques

Agarose gel techniques
For researchers who sometimes want to use agarose, there is a special kit to help you cast and run the 3 mm agarose gels on the LKB Vertical Electrophoresis System. The kit includes frosted glass plates to provide essential support for the gel.

Two-dimensional techniques
This is the only complete vertical electrophoresis system that can carry out both the first and second phases of 2-D electrophoresis in a single unit, and can offer the user a choice of either tube or slab gels for the first dimension. Our 2-D Kit includes a special cleaver for preparing slab gels, while tube gels are easily applied to the top of a standard slab gel by means of the trough built into the upper buffer chamber.

LKB's new Transphor Electroblotting Unit improves the sensitivity and resolution of detection procedures.

Autoradiography techniques
Another kit, containing all the accessories you need to cast accurate gels only 0.75 mm thick, makes it easy for you to use the LKB Vertical Electrophoresis System for high resolution autoradiography using thin gels. The LKB Slab Gel Dryer, which combines dry heat and reduced pressure to rapidly dry and affix the gel onto paper or film for later analysis and storage, is ideal for drying down thin gels onto disposable plastic sheets prior to detection.

The result of gradient gel electrophoresis of two crude extracts from Beneckea harveyi on the LKB system.

Electroblotting techniques
The new LKB Transphor uses the principles of electrophoresis to transfer proteins or nucleic acids from polyacrylamide or agarose gels onto nitrocellulose or other immobilizing matrices. In this way the electrophoresis bands are made easily accessible for faster and more sensitive visualization than on the original gel. The resulting patterns can be stored for months without deteriorating and multiple analyses can be performed using just the one pattern.

Want proof?
These may sound like extravagant claims, but just call us and we'll be happy to come and demonstrate the versatility of the LKB Vertical Electrophoresis System for you and your colleagues. At your convenience.
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