

## New Products

## CHIRAL MEDIA

Lux Cellulose-1 and -2 are unique and complementary chiral stationary phases, which are now available in a 10  $\mu\text{m}$  particle size for batch preparative chromatography. The two cellulose-based phases add to a dependable, high-resolution screening set with a wide range of selectivity. The new 10  $\mu\text{m}$  particles are available both in Axia-packed preparative columns, and in bulk, enabling customers to pack their own columns. Lux chiral phases Cellulose-1, -2, -3, and -4 are already offered in 20  $\mu\text{m}$  bulk media for use in batch preparative and simulated moving bed chromatography. Packing columns with new 10  $\mu\text{m}$  particles delivers increased efficiencies by enabling the use of shorter columns without compromising results. Lux Cellulose phases benefit from Phenomenex's unique manufacturing process and silica coating technology. Lux Cellulose-1 uses cellulose tris (3, 5-dimethylphenylcarbamate) as the chiral selector. Lux Cellulose-2 provides a second chiral selector, cellulose tris (3-chloro-4-methylphenylcarbamate), providing a unique chlorinated stationary phase with complementary selectivity to Lux Cellulose-1.

**Phenomenex**

For info: 310-212-0555 | [www.phenomenex.com](http://www.phenomenex.com)



## DNA CLONING AND ASSEMBLY KITS

GeneArt Seamless PLUS Cloning and Assembly Kits use a proprietary enzyme mix to recognize and precisely assemble DNA fragments without the need for restriction digestion, ligation, or introduction of extra DNA sequence (seamless). The kits are designed to work with any vector a researcher chooses plus one to four fragments (or more depending on fragment sizes and workflow) in an *in vitro*, typically  $\leq 30$  minute room temperature reaction to create constructs up to 40 kb in size. The GeneArt Seamless Cloning and Assembly Enzyme Mix is the economical choice for creating constructs up to 13 kb with the option for high throughput assembly. The GeneArt Site-Directed Mutagenesis PLUS System can be employed to introduce deletions, insertions, and substitutions ranging from small to large fragment sizes and can facilitate single or multisite mutagenesis. Up to three sites can be edited in a single plasmid at greater than 90% efficiency.

**Life Technologies**

For info: 800-955-6288 | [www.lifetechnologies.com](http://www.lifetechnologies.com)

## UV CROSSLINKER

A high-quality, inexpensive ultraviolet crosslinker that makes it possible to identify and analyze trace amounts of DNA/RNA with far greater sensitivity, accuracy, and speed than with conventional analysis. The Select XLE-Series UV crosslinker covalently binds nucleic acids to membranes in under 30 seconds—240 times faster than vacuum-oven baking. It has a unique true-ultraviolet (UV)-monitoring circuitry that safeguards valuable test results from washouts, even when the tubes age. Researchers also rely on this versatile instrument for eliminating polymerase chain reaction contamination, nicking ethidium-bromide-stained DNA in agarose gels, gene mapping for creating cleavage-inhibiting thymine dimers, RecA mutation screening in *E. coli*, UV sterilization, and miscellaneous UV-dosage applications. The Select Series crosslinker features a “smart” user-friendly, fully programmable microprocessor, built-in “help” messages, and an auto-repeat function that make its operation amazingly fast and simple. It features five 8-watt tubes and is available in a choice of 254 nm, 312 nm, and 365 nm versions.

**Spectroline**

For info: 800-274-8888 | [www.spectroline.com](http://www.spectroline.com)

## MODULAR CHROMATOGRAPHY SYSTEM

The ÄKTA pure is a chromatography system for flexible, reliable, and intuitive purification of proteins. ÄKTA pure is an easy-to-use modular system that offers the flexibility to support both routine and challenging purification requirements, as well as being adaptable to changing research needs. In today's research environment, scientists are often expected to undertake all aspects of the protein discovery workflow, from genomics to purification and characterization, and the requirement to isolate specific proteins at high purity in short timelines makes chromatography conditions and methodologies more challenging. ÄKTA pure is specifically designed to enable researchers—from beginners to experts—to easily isolate their target protein, whether under simple or complex conditions. ÄKTA pure eliminates the need for programming skills to control the chromatography run, with the addition of simple drag-and-drop method templates in the UNICORN 6 control software.

**GE Healthcare**

For info: 800-526-3593 | [www.gelifesciences.com/aktapure](http://www.gelifesciences.com/aktapure)

## C-MOUNT SPECTROMETERS

A new series of adapters simplify the integration of c-mount CMOS and CCD cameras with McPherson high-performance spectrometers. Easy and secure c-mount adapters are suitable for cryogenic, TE-cooled, deep depletion, near infrared InGaAs, and sensitive Silicon visible range cameras. They fasten via one-inch, 32-pitch screw thread with 17.526 mm back distance to focal plane. C-mount adapters are widely used for many types of digital cameras. Two dimensional detectors like digital cameras are essential for techniques like spectral imaging and multi-fiber spectroscopy. The new McPherson adapters have a nested design to accommodate the threaded, rotating c-mount. The new adapters allow mounting c-mount detectors firmly, precisely, and in the correct rotational orientation on spectrometers to intercept well focused spectra at the focal plane. A micrometer inside the spectrometer—not a wiggly draw tube—allows precise and reproducible focus trimming (if required). The adapters are available as optional accessories for all new and legacy McPherson instruments.

**McPherson**

For info: 978-256-4512 | [www.mcphersoninc.com](http://www.mcphersoninc.com)

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# Science

## New Products

*Science* **338** (6108), 825.  
DOI: 10.1126/science.338.6108.825-a

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