Automated Sample Storage System

The Verso automated sample storage system from Hamilton Storage provides new flexibility for medium- to large-capacity storage needs, from ambient temperatures to −20°C. Verso's new Universal Picker, available on all configurations, accommodates 96-well tubes, 1-dram vials, and other vial types and plates, and eliminates the hassle associated with storing disparate labware containers separately. The 96-tube Picker–Puncher processes REMP 300-µL and REMP 900-µL punching tubes in addition to normal 96-well format tubes, for a seamless transition between labware types. Complete walkaway automation allows users to attend to other tasks or program Verso to operate overnight, as it processes up to 1,500 tubes/hour and up to 170 plates/hour. Applications benefiting from the Verso system include drug discovery/compound management, biobanking, forensics, pharmaceuticals, and more.

Hamilton Storage
For info: 800-648-5950
www.hamiltoncompany.com/samplestorage

Supercritical Fluid Chromatography Columns

Waters Corporation expanded its Torus supercritical fluid chromatography (SFC) column line with the addition of four new preparative columns. The new achiral SFC columns are designed for purification laboratories scaling up their separations of investigatory drug compounds, natural products, or synthetic chemicals. Torus columns for preparative SFC give scientists the resolving power they need to speed method development and increase their separations from analytical to preparative-scale achiral separations. Based on a proprietary new bonding chemistry, the columns come in four different phases to cover a range of selectivity while being stable and reproducible, ensuring day-to-day and batch-to-batch consistency. Torus 1.7-µm and 5-µm columns are available in four chemistries—2-picolylamine (PIC), diethylamine (DEA), high-density diol (DIOL), and 1-aminoanthracene (1-AA)—and in a variety of internal dimensions and lengths. They are sold with the Waters SFC 100 System and other commercial preparative SFC instruments.

Waters
For info: 800-252-4752
www.waters.com/torus

Sample Collection Devices

Zymo Research offers five new sample collection devices. Each type of collection tube contains our DNA/RNA Shield storage reagent, which preserves the genetic integrity and expression profiles of various samples such as cells, tissues, blood, plasma, serum, saliva, urine, and feces at ambient temperatures for extended periods—up to 30 days. By eliminating the need to remove the reagent during the purification process, we have also streamlined the sample-analysis process even further. The five devices now available include a swab collection tube for mouth, nose, throat, and environmental sample collection; a blood collection tube for gene-expression analysis, microRNA (miRNA) analysis, and blood-borne pathogen detection; and a fecal collection tube and lysis tubes (for tissues and microbes) for miRNA analysis and pathogen detection, as well as gene-expression and microbiomic analyses.

Zymo Research
For info: 888-882-9682
www.zymoresearch.com

FISH Probe Synthesis

Fluorescent dye-dUTPs (deoxyuridine triphosphates) are well recognized as superior to analogous methods using cumbersome, indirect two-step labeling methods. When coupled with the Nick Translation DNA Labeling System, this direct approach provides a simple, efficient method to label DNA for fluorescence in situ hybridization (FISH), suitable for a wide range of molecular biology and cytogenetics applications. The fluorescent dye-dUTPs have eight distinct colors to choose from, all spanning the visible light spectrum. They have high signal intensity and good photostability, and are available in aqueous or lyophilized formats. The Nick Translation DNA Labeling System 2.0 requires only 1 hour to label DNA, and includes the ready-to-use Nick Translation Enzyme Mix, which minimizes pipetting error. Validation is done with fluorophore-, biotin-, and digoxigenin-labeled dUTPs.

Enzo Life Sciences
For info: 800-942-0430
www.enzolifesciences.com

Automated Cell Counter

The Countess II FL Automated Cell Counter is a benchtop assay platform equipped with state-of-the-art optics, full autofocus, and image-analysis software for rapid assessment of cells in suspension—all in as little as 10 seconds. It uses trypan blue staining, combined with an autofocus mechanism and a sophisticated image-analysis algorithm, to obtain accurate cell and viability counts. With three-channel flexibility—brightfield and two optional fluorescence channels—you can count cells, monitor fluorescent protein expression, evaluate apoptosis, and measure cell viability. The counter eliminates the subjectivity of manual cell counting and user-to-user variability. Lastly, the counter requires no cleaning or routine maintenance. A capacitive touchscreen and simple user interface provide quick startup and require minimal training. Using the USB port, you can save your cell-count results and images, then transfer them to your PC.

Thermo Fisher Scientific
For info: 800-955-6288
www.thermofisher.com

ChIP Assay

Chromatrap offers an optimized unique buffer chemistry that provides the isolation of high-quality and high-yield chromatin. The success of any chromatin immunoprecipitation (ChIP) assay is dependent upon the quality of the chromatin. Our unique buffer system for chromatin extraction has been cited in a growing number of recent publications, including investigations into G-quadruplex structures in human regulatory chromatin and receptor signals in natural killer cells. Chromatrap has products that enable researchers to prepare chromatin using mechanical fragmentation (sonication) or enzymatic digestion. Both our sonication shearing kit and enzymatic shearing kit contain buffers for up to 10 chromatin preparations.

Chromatrap
For info: +44-(0)-1978-666222
www.chromatrap.com/products

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