

DNA ISOLATION WORKSTATION

Designed to meet the needs of biobanks and high throughput genomic laboratories, the Freedom EVO-HSM workstation provides reliable walkaway extraction of gDNA from large volume blood samples using Promega's proven ReliaPrep Large Volume HT gDNA Isolation System. The Freedom EVO-HSM workstation is designed to streamline biobanking workflows, offering intelligent one-tube gDNA extraction from up to 32 samples in less than four hours. The compact system is controlled by the intuitive TouchTools touchscreen interface and features preinstalled protocols. Using the platform's liquid level detection function, the system is able to automatically calculate the reagent volumes for each sample, ensuring efficient walkaway extraction of high-quality DNA from 1–10 mL of blood and meeting the specific requirements of next generation sequencing methods.

TECAN

For info: +41-(0)-44-922-81-11 | www.tecan.com/reliaprep



NUCLEIC ACID SIZE SELECTION

SPRIselect utilizes Solid Phase Reversible Immobilization (SPRI)-based chemistry to speed and simplify genomic DNA size selection for next generation sequencing fragment library preparation. Following shearing, the library construction process requires size selection to produce uniform distribution of fragments. SPRIselect allows size distribution to be adjusted between 150 and 800 base pairs to suit the application and sequencing platform. The process can be performed manually or automated for high throughput in 96-well plates. SPRIselect reagent kits are available in 5, 60, and 450 mL volumes, enable rapid and consistent size selection, and come with guidelines to assist users in customizing protocols. Gel cartridges, chips, and additional instruments are not needed. Samples should be fragmented, double-stranded DNA of 50 µL or greater and dissolved in molecular biology grade water, or such standard buffer solutions as Tris or TE. SPRIselect is ideal for use in most common next generation applications, including paired-end, single-end, targeted, ChIP, and RNA sequencing.

BECKMAN COULTER

For info: 800-742-2345 | www.spriselect.com

HIGH-CONTENT PEPTIDE MICROARRAYS

PEPperCHIP Peptide Microarrays are synthesized with a laser printer-based technology directly on the chip. The benefits of this approach are a unique flexibility in terms of custom peptide content, a high spot density, and reduced material consumption enabling very attractive chip prices. Microarrays are provided on conventional object slides (containing 9,000 individual peptides) and other glass slide formats with up to 275,000 peptide spots. Assays can be performed using fluorescently labeled proteins or sandwich immunoassays. The PEPperCHIP platform is suitable predominantly for antibody characterization by epitope mapping and epitope permutation scans. PEPperCHIP microarrays further allow the profiling of antibody immune responses in blood sera linked with infection, immunization, autoimmune diseases, or cancer. Besides antibody analysis, PEPperCHIP microarrays are also suitable for peptide drug development. The PEPperMAP services include microarray design and synthesis as well as immunoassays, read-out, data evaluation, and reporting.

PEPperPRINT

For info: +49-62-21726-4489 | www.pepperprint.com

SINGLE-CELL WHOLE-GENOME AMPLIFICATION

DNA sequence analysis and genotyping of biological samples using innovative instrumentation is often limited by the small amount of sample available. The new REPLI-g Single Cell Kit is specially designed to uniformly amplify genomic DNA (gDNA) from single cells (<1,000 cells to as little as one bacterial or tumor cell) or purified gDNA, with negligible sequence bias and maximized genome coverage. The kit uses innovative Multiple Displacement Amplification (MDA) technology to deliver high yields of DNA that is highly suited for use with, and delivers outstanding results on, new technologies such as next generation sequencing platforms. The REPLI-g Single Cell Kit can also be used for a broad range of sample types, including purified gDNA, fresh or dried blood, and fresh or frozen tissue. Innovative ultraviolet treatment eliminates any detectable trace of residual DNA in the kit components, ensuring highly reliable amplification.

QIAGEN

For info: 800-362-7737 | www.qiagen.com

LIGHT CYCLER SYSTEM

The new LightCycler 96 System offers highly accurate, reproducible, and fast data generation for researchers working in a wide range of fields such as gene expression and genetic variation research. The system permits flexible adaptation of workflows to specific assay formats and throughput needs. It also provides guided navigation and intuitive software for first-time users as well as a full set of analytical capabilities for experienced operators. The data generated by the system can be analyzed directly or remotely for translation to publication-ready results in line with MIQE guidelines. The instrument's new silver block ensures outstanding temperature homogeneity and therefore enables a maximum of data consistency and accuracy. In addition, the new LightCycler 96 puts the user right at the center by providing highly intuitive, user-friendly software and interfaces. Thanks to its innovative glass fiber optics, the LightCycler 96 System offers equal and simultaneous data capture from all 96 wells, while avoiding the signal variations commonly seen in systems that use optical scanning. It is also calibration-free as it does not require a passive reference dye.

ROCHE

For info: +49-88-56605-468 | www.roche.com