



2D-Barcoded NMR Tube Scanner

The Express Scanner from Ziath delivers an industry-leading fast scan and decode time of under 3 s for a full rack of 2D-barcoded nuclear magnetic resonance (NMR) sample tubes. 2D-barcoded NMR tubes are usually difficult to read with a conventional scanner, as the caps are on top of the tubes and most scanners are designed to read from underneath. Designed in collaboration with a leading European NMR spectrometry lab,

the Express Scanner operates on top of the sample tubes without applying any weight (which could damage the tubes). In addition, for Bruker NMR spectrometer users, Ziath provides a dedicated slide for their tube carriers that can only be inserted in one orientation—thereby conserving the origin position (“A1” position) each time. The Express Scanner is supplied with a controller that regulates scanning and data processing using Ziath industry-standard DataPac software (version 3.17) or new DP5 web-enabled software that allows exporting of tube barcodes as tables or text, or in JPEG, XML, XLS, or JSON file formats. For convenience, the unit can be separated and positioned under your lab bench.

Ziath

For info: 858-880-6920
www.ziath.com

Water-Soluble Lipofuscin Autofluorescence Quencher

Lipofuscin autofluorescence is a common source of background in human and aged animal tissues, particularly brain and eye, which can make specific fluorescence imaging virtually impossible. Common quenchers such as Sudan Black B have been used to reduce lipofuscin autofluorescence, however these reagents often introduce nonspecific red and far-red fluorescence. TrueBlack Plus is a next-generation lipofuscin autofluorescence quencher that offers the lowest far-red background of all available quenchers, including Sudan Black B and our original TrueBlack. In addition, TrueBlack Plus is water-soluble, making it the only lipofuscin quencher that can be used in aqueous buffer instead of ethanol. Quenching in phosphate buffered saline allows longer incubation times for thicker samples without shrinkage and can be performed with hydrophobic stains.

Biotium

For info: 510-265-1027
www.biotium.com

Primary Kupffer Cells

BioIVT's high-purity Kupffer cells are ideal for in vitro screening assays, toxicity studies, disease models, and predicting inflammation-induced adverse drug reactions. Researchers often use these cells in plated monocultures, cocultures, and liver microtissue configurations. The cells are cryopreserved immediately after isolation at passage zero. Their purity is assessed using flow-cytometric analysis of CD68⁺ cells, and their function is measured based on interleukin-6 release in response to lipopolysaccharide. Each vial of BioIVT's high-purity Kupffer cells contains a minimum of 1 million viable cells. The cells can be thawed and plated in coculture with BioIVT's cryoplateable human hepatocytes using InVivoGRO CP NPC Medium.

BioIVT

For info: 516-483-1196
bioivt.com

Sterile Deep-Well Plates

Porvair Sciences offers an extensive range of sterile deep-well microplates for sensitive biological and drug discovery applications. These high-quality deep-well plates are made from virgin polypropylene and are available in several different sizes, well shapes, plate formats (the most commonly used being 96- and 384-well plates), and volumes (240 μ L–2.2 mL). With qualified low-extractables and low-leachables characteristics, they contain no contaminants that can leach out and affect stored sample or bacterial or cell growth. They are precisely manufactured to ANSI/SLAS dimensions to ensure they are completely automation compatible. Porvair Sciences deep-well plates are designed with raised well rims to facilitate reliable heat-seal closure—critical for long-term integrity of stored samples at -80°C . Used in conjunction with a support mat, the plates can be routinely centrifuged at up to 6,000 g.

Porvair Sciences

For info: 800-552-3696
www.microplates.com

Dye for Flow Cytometry

Bio-Rad Laboratories announces the launch of StarBright Violet 515 (SBV515) Dye, the first of a new range of unique fluorescent nanoparticles for use in flow cytometry. StarBright Dyes are conjugated to a growing range of antibodies and are compatible with most flow cytometers and experimental protocols. With an excitation maximum of 401 nm and emission maximum of 516 nm, SBV515 offers researchers improved brightness to resolve rare and low-antigen-density populations more easily. It has a narrow emission profile to reduce spillover into neighboring filters and minimal excitation by other lasers, making it suitable for inclusion in multicolor panels. The dye is not susceptible to photobleaching, delivers high lot-to-lot reproducibility, and is stable at 4°C with no loss of signal, ensuring consistent staining and reliable results. It has been tested in many common staining buffers and does not require a special staining buffer, permitting easy integration into common experimental protocols without compromising performance.

Bio-Rad Laboratories

For info: 800-424-6723
www.bio-rad-antibodies.com/flow-cytometry-starbrightviolet515.html

SARS-CoV-2 rRT-PCR Kit

The Quick SARS-CoV-2 rRT-PCR Kit is a real-time reverse transcription PCR (rRT-PCR) test for the qualitative detection of RNA from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), which is responsible for the coronavirus disease (COVID-19). It targets three different regions of the viral nucleocapsid (N) gene and a host-specific target region (human ribonuclease P gene) to assess sample quality. The kit also includes coefficient of variation (CV) Positive Control to enable assay performance monitoring as well as a No-Template Control to confirm the absence of contamination in the reagents. It can be used on purified RNA samples isolated from upper respiratory and lower respiratory systems. The Quick SARS-CoV-2 rRT-PCR Kit has high sensitivity with a limit of detection as low as 15 viral genome equivalent copies per reaction, a fast turnaround time of less than 1.5 h, and a simple workflow in which RNA is simply added to the kit reagents and directly analyzed. Due to its simplicity, the kit can be set up with a manual or automated system and is compatible with high-throughput platforms.

Zymo Research

For info: 888-882-9682
www.zymoresearch.com/products/quick-sars-cov-2-rrt-pcr-kit

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/about/new-products-section for more information.

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