

new products

**SARS-CoV-2 RT-PCR Kits**

Bio-Rad Laboratories' Reliance SARS-CoV-2/FluA/FluB RT-PCR and Reliance SARS-CoV-2 RT-PCR Assay Kits have been granted emergency use authorization by the U.S. Food and Drug Administration. The multitarget Reliance SARS-CoV-2/FluA/FluB RT-PCR Assay Kit

simultaneously detects and differentiates SARS-CoV-2 (the virus associated with COVID-19), influenza A, and influenza B in a single, multiplex reaction. The highly sensitive respiratory pathogen panel is intended for use with nasopharyngeal swabs and anterior nasal swabs. Bio-Rad's Reliance SARS-CoV-2 RT-PCR Assay Kit is a multiplex test that targets two separate regions in the nucleocapsid gene (N1 and N2 regions) to ensure greater sensitivity and tolerance to potential mutations that may occur within the viral genome over time in the detection of SARS-CoV-2. Both assay kits contain the company's standard and negative molecular controls and are validated to run on the CFX Opus 96, CFX96 Touch, and CFX96 Dx qPCR Systems, and for higher-throughput testing, can be run on the CFX Opus 384 and CFX384 Touch Systems; they are also validated to run on qPCR systems offered by other manufacturers.

Bio-Rad Laboratories

For info: 800-424-6723

www.bio-rad.com

Animal-Free Enzymes for In Vitro Tissue Dissociation

AMS Biotechnology (AMSBIO), in association with Nordmark Biochemicals (NB), is now offering animal-free Collagenase and Neutral Protease enzymes isolated from *Clostridium histolyticum*, for in vitro tissue dissociation that delivers high yields of viable cells. They are produced under good manufacturing practice guidelines using a plant-based production process that guarantees no risk of cross-contamination with animal-derived materials. These top-quality enzymes can be used on a wide range of cell/tissue types and are supported with specific protocols available based on each application. Our highly consistent, superior Collagenase and Neutral Protease are essential tissue-dissociation enzymes for tissue-engineering and regenerative-medicine applications. The high level of quality control involved in the production of these enzymes provides reliable lot-to-lot consistency with accurate analysis of proteolytic enzyme activities. AMSBIO also offers research-grade Collagenase and Neutral Protease enzymes. As each application requires different digestion conditions, this large range of Collagenase NB products offers optimal digestion conditions for a wide variety of tissue types.

AMS Biotechnology

For info: 617-945-5033

www.amsbio.com/collagenase-nb-and-neutral-protease

Borosilicate Glass Microplates

Made from ultrapure-grade borosilicate glass, Porvair Sciences' Krystal Glass Bottom microplates with Schott D 263 M technology are precision manufactured for high optical performance in high-resolution microscopy applications, such as charge-coupled device imaging and laser-detection applications. Krystal Glass Bottom plates combine the advantageous optical properties of glass, low background, and low birefringence with the versatility of a microplate. The latest Krystal microplate is available in two different thicknesses—50 μm and 175 μm —and in addition, a high-performance version D 263 M/1.5-H plate with a thickness tolerance of $\pm 5 \mu\text{m}$ is available for high-sensitivity applications. Precisely manufactured to SBS/ANSI microplate dimensions, the affordable Krystal Glass Bottom design is fully compatible with all

commercially available plate readers, robotic sample processors, and automated liquid-handling systems. The complete Krystal range of glass bottom microplates is available either in tissue-culture treated format to optimize cell growth, or without surface modification.

Porvair Sciences

For info: 800-552-3696

www.microplates.com/krystal-clear-bottom-opaque-sides

Flow Chemistry Mixer

The Uniqsis range of glass static mixer (GSM)/chip reactor blocks produces an efficient, turbulent mixed reagent stream for flow chemistry reactions that is not diffusion dependent. Now available in sizes from 270 μL to 20 mL, our recently expanded range of GSM chips can be used to perform reactions from -80°C to over 150°C . GSM chips up to 2 mL can be operated up to 40 bar and are available in two-channel or three-channel inlet configurations. Larger GSM chips of 10 mL and 20 mL have a premixing channel followed by a residence domain and can operate up to 10 bar. Uniqsis GSM chips are precision machined from inert borosilicate glass to withstand a wide temperature range and can be conveniently attached to a FlowSyn column heater module, Cold Coil module, or Polar Bear Plus cryogenic reactor module.

Uniqsis

For info: +44-(0)-845-864-7747

www.uniqsis.com/paProductsDetail.aspx?ID=ACC_CHIP

Small-Scale Photoreactor

The DrySyn Illumin8 from Asynt allows users to run up to eight parallel photochemical reactions at a time in precision borosilicate tubes of up to 6 mL in volume. The unit mounts on a standard magnetic hotplate stirrer, enabling powerful agitation and heating (up to 80°C). Convenient connectors on top of the unit allow for an inert atmosphere or vacuum to be applied to each reaction tube. Compact in size, the DrySyn Illumin8 features a ring of eight high-power ultraviolet (365 nm) or blue (450 nm) light-emitting diodes (LEDs) with safety interlocks to ensure light-tight photochemical reactions. With each LED positioned close to a corresponding reaction tube, the unit efficiently delivers an even photon flux to each reaction, enhancing the consistency of your photochemical reactions. The DrySyn Illumin8 is simple to set up, flexible in operation, and easy to use, with just one on/off switch.

Asynt

For info: +44-(0)-1638-781709

www.asynt.com/product/illumin8-parallel-photoreactor

SARS-CoV-2 B.1.351 (S. African Variant) Spike Protein Mutants

As potentially more transmissible variants of SARS-CoV-2 emerge, understanding how mutations in the spike protein impact SARS-CoV-2 behavior is critical. With the pPACK-SPIKE B.1.351 RBD Mutations Lentivector Packaging Mix, you can safely characterize the SARS-CoV-2 spike protein, which has three key receptor-binding domain mutations found in the emerging South African lineage B.1.351 (also known as 501Y.V2)—K417N, E484K, N501Y—making it an ideal reagent for vaccine and antiviral drug discovery projects. You can conduct a range of SARS-CoV-2 studies under biosafety level 2 conditions, including neutralization assays and studies of virus interactions with host surface proteins, as well as the development of vaccines and therapeutics. For added convenience we also offer pPACK-BALD, an envelope protein-free lentivector packaging mix that can be used as a negative control for any pPACK-SPIKE study or to create lentivirus particles pseudotyped with the envelope protein of your choice.

System Biosciences

For info: 888-266-5066

systembio.com

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