

FISH Probes

A new range of nonhuman fluorescence in situ hybridization (FISH) probes has been developed for visualizing pig, chicken, and mouse chromosomes. The CytoCell Chromoprobe Multiprobe Porcine, Chicken, and Mouse products add to the extensive catalog of human CytoCell FISH probes already available. These probes are set to benefit animal husbandry and research. It is now possible to detect a wide range of chromosomal aberrations in these species with specific, clear, high-intensity signals and minimal background, delivering quality, reproducible results. The probes were developed using Oxford Gene Technology's rapid probe development capability and proprietary Chromoprobe technology, which effectively simplifies the FISH procedure and makes it safe and quick to use. Enabling multiple FISH probes to be hybridized on the same slide, the Chromoprobe Multiprobe System also allows rapid screening for a number of DNA sequences in a single analysis, and can be customized according to requirements.

Oxford Gene Technology

For info: +44-(0)-1865-856800
www.ogt.com

Nucleic Acid Extraction Kits

Analytik Jena introduces a global innovation in nucleic acid extraction to the market. The innovative SmartExtraction technology does not require the use of phenol/chloroform, ion exchangers, filter columns, or filter plates, nor does it need suspensions from magnetic or paramagnetic particles for binding nucleic acids. Innovatively modified surfaces for nucleic acid binding (Smart Modified Surfaces) form the basis of the patent-pending technology. SmartExtraction can be operated manually, automated, or used under field conditions. Because of the extremely high binding capacities of the modified surfaces, the achieved yield of nucleic acids is practically unlimited, unlike that obtained through magnetic particle-based extraction, for example. In addition, the new technology also allows isolation of nucleic acids that are present only in very low concentrations in a biological sample. Because of its universality, this process can be implemented with all standard automated pipetting systems.

Analytik Jena AG

For info: +49-(0)-36-41-77-70
www.analytik-jena.com



FISH Slide Hybridizer

The RapidFISH slide hybridizer is designed to simplify fluorescence in-situ hybridization (FISH) procedures for FFPE tissue samples, cell suspensions, and other tissue preparation procedures. FISH testing is used worldwide to identify biological markers in the form of DNA/RNA. Temperature control and humidity are essential for FISH probes to bind to RNA and DNA. RapidFISH has a self-clamping slide tray design that maintains the required humidity; microscope slides in RapidFISH do not require coverslips to be glued, because the removable tray of the slide incubator traps moisture in the system. Elimination of this step decreases processing time and ensures that the specimens stay hydrated during processing. RapidFISH features an easy-to-use control system for regulating temperature and time. It has a small footprint yet still maintains excellent temperature stability and uniformity because of its dual-heater convection system.

Boekel Scientific

For info: 215-396-8200
www.boekelsci.com

Gene Editing System

The PluriQ G9 Gene Editing System is a complete system for culturing and transfecting human pluripotent stem cells for gene editing. The system includes the G9 Maintenance Medium and G9 VTN Human Recombinant (vitronectin) plate coating for culturing human induced pluripotent or embryonic stem cells in a manner that maximizes transfection by using the EditPro Stem Transfection Reagent (included) to transfect genome-editing constructs. EditPro Stem is optimized for delivery of CRISPR/Cas9 editing via DNA Cas9 vectors, Cas9 messenger RNA (mRNA) with double-stranded DNA (g-block), Cas9 mRNA with trans-activating CRISPR (tracr)/guide RNA, or Cas9 protein with tracr/guide RNA. It is also effective for delivery of transcription activator-like effector nuclease (TALEN) and zinc finger nuclease (ZFN) editing tools, giving the researcher total flexibility in experimental design. With such high-efficiency delivery—up to 90%—antibiotic selection in the editing design is not needed. Additionally, the reagents have low cell toxicities, do not affect pluripotency, and are effective in small amounts, resulting in a low cost per well.

MTI-GlobalStem

For info: 888-545-0238
www.mti-globalstem.com

Genomics Sample Preparation Microplate

Designed with thickened walls and strengthened ribs underneath to stop cracking or leaking when used in Geno/Grinder or Tissulyser machines, the robust 96-well, 2-mL deep-well Genomics Sample Preparation Plate sets a new standard for high-throughput genomics sample preparation. It has been proven

to withstand demanding applications—steel ball bearings in the wells shaken at up to 1,500 rpm—used to homogenize seeds, leaves, or tissue ready for DNA extraction. Manufactured from superior grade, ultraclean, polypropylene samples, the Genomics Sample Preparation Plate has been tested at the National Centre for Mass Spectroscopy Excellence at Swansea University (United Kingdom) and has been found to be free of measurable leachates/extractables, as determined on their most sensitive time-of-flight MS instruments. The plates are sold individually or as part of a package including a matching silicone impact support mat and exome variation analyzer cap mat.

Porvair Sciences

For info: +44-(0)-1978-666222
www.porvair-sciences.com

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