

new products

**2-Minute Next-Gen PCR**

Introducing 2-minute PCR—NEXTGENPCR is redefining “fast.” The NEXTGENPCR device heats and cools samples instantly, losing no time getting samples to the desired temperature. Go from melting to annealing in less than one-tenth of a second. Complete PCR in as little as 2 minutes. Using one thermocycler, you

can run more than 10 plates per hour. The math adds up quickly—10 plates per hour for 8 hours in a 384-well format means more than 30,000 data points in a single day. Process more samples per day for sequencing, genotyping, and other PCR applications by incorporating NEXTGENPCR into your laboratory.

Canon BioMedical

For info: 844-226-6624

www.canon-biomedical.com/gofaster

Antibody Labeling Kits

Mix-n-Stain antibody labeling kits are a revolutionary technology that dramatically simplifies the process of antibody labeling. The kits enable a researcher to covalently label $\leq 5 \mu\text{g}$ – $100 \mu\text{g}$ of an antibody with one of 20 super bright and photostable CF dyes, biotin, or fluorescein isothiocyanate (FITC) in only 30 minutes, with 100% recovery of antibody after labeling. The prepared conjugates perform comparably to pre-labeled antibodies from leading suppliers. Because the labeling is covalent, the conjugates are stable for long-term storage, and ideal for multicolor imaging. Each kit comes with everything you need to perform the conjugation. Simply mix your antibody with a vial of premeasured CF dye, biotin, or FITC in the buffer provided—a step taking less than 30 s. After waiting for 30 min, without a separation step, you will have an optimally labeled antibody conjugate ready for use in any immunofluorescence staining experiment.

Biotium

For info: 800-304-5357

www.biotium.com

Trypsin For Mass Spectrometry

MilliporeSigma's Advanced Proteomics Grade SOLu-Trypsin is an exclusive, solution-stable enzyme for mass spectrometry. Designed to be stable in solution when refrigerated, it can be used immediately without preparation. Other forms of trypsin require thawing or reconstitution and must be discarded if not used immediately. SOLu-Trypsin allows excess product to be saved for future use, thus eliminating unnecessary waste and cost. It is formulated with a high-purity recombinant trypsin, free of chymotryptic activity, to ensure high-fidelity digestion, and is stable for short-term use at room temperature in an autosampler or on a liquid-handling robot.

MilliporeSigma

For info: 800-325-3010

www.sigma.com/solu-trypsin

Hematopoietic Progenitor Cell Culture Medium

Irvine Scientific's PRIME-XV Hematopoietic Cell Basal Medium is a serum-free, xeno-free basal medium that specifically supports robust expansion of hematopoietic progenitors while maintaining their multipotency—the functional properties they need for cell-based therapies. Hematopoietic stem and progenitor cells (HSPCs) give rise to all other blood cells, and therefore have therapeutic potential for the treatment of cancers such as leukemia and lymphoma, and nonmalignant diseases such as sickle-cell anemia or immune-related disorders. With numbers of cells in the hundreds of millions required for therapy, the challenge has been obtaining sufficient numbers of HSPCs that maintain the progenitor cell properties required to differentiate and mature into the various hematopoietic lineage cells needed for therapies. PRIME-XV is manufactured under Current Good Manufacturing Practices using stringent raw-material qualification, and offers consistency and reliability while supporting the move from research toward clinical applications.

Irvine Scientific

For info: 800-577-6097

www.irvinesci.com

Bioreactor System

The BioFlo 120 is a bench-scale bioreactor/fermentor system perfectly suited for all levels of R&D. Flexibly designed to meet the wide-ranging needs of today's scientists, the system features 24 interchangeable heat-blanketed and water-jacketed autoclavable vessels, along with BioBLU Single-Use Vessels ranging from 250 mL to 40 L working volume. Digital Mettler Toledo ISM (Intelligent Sensor Management) sensor technology is fully integrated, allowing the user to choose between pH, redox, dissolved oxygen (polarographic and/or optical), and CO₂ measurements without the need for additional equipment. A high-precision, expanded-range thermal mass flow controller is also available, which can provide low-flow mammalian cell culture through high-demand microbial processes on a single controller. Its ease of use and flexibility ensure that the BioFlo 120 will serve scientists for years to come—be it in academic, governmental, or industrial research settings.

Eppendorf

For info: 800-645-3050

www.eppendorf.com/bioflo120

GC/Q-TOF System

The Agilent 7250 GC/Q-TOF system combines gas chromatography (GC) and quadrupole time-of-flight mass spectrometry (Q-TOF) with a low-energy electron ionization (EI) source that allows greater exploration of unknown chemical samples. The system is designed for laboratories doing food and environmental testing, life science research, forensics, and chemical analysis. It represents the only commercially available combination of a high-resolution, accurate-mass GC/MS and low-energy ionization source, enabling scientists to employ analytical techniques that were previously impractical, or in some cases impossible. The 7250 GC/Q-TOF system will now permit labs to quickly and easily identify volatile and semivolatiles compounds that once required them to perform alternative techniques or longer sample preparations to detect and determine the compounds present in their samples. Furthermore, with low-energy EI, scientists will be better able to elucidate chemical structures.

Agilent Technologies

For info: 800-227-9770

www.agilent.com

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

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.

Science

New Products

Science **360** (6391), 928.
DOI: 10.1126/science.360.6391.928

ARTICLE TOOLS <http://science.sciencemag.org/content/360/6391/928>

PERMISSIONS <http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.