

# NEW PRODUCTS

<http://science.labvelocity.com>

## Polymerase Chain Reaction Reagents

Four new reagents kits are available for performing quantitative polymerase chain reaction (PCR) and reverse transcription PCR (RT-PCR). Sensitive, stable, and easy-to-use, &GO Mastermixes simplify the accurate, real-time analysis of DNA, complementary DNA (cDNA), and RNA, and are supplied as complete 5X mastermixes. This format minimizes pipetting to save time and minimize risk of contamination. Two kits are available for quantifying DNA and cDNA in thermal cyclers that use plasticware: qPCR ROX-&GO for analyses employing fluorescently labeled, sequence-specific probes, and qPCR ROX-&GO Green, which contains a fluorescent intercalating dye (SYBR Green). Both mastermixes contain ROX dye to normalize non-PCR related background fluorescence. The qPCR-&GO Green and qRT-PCR1-&GO Green mastermixes are intended for use with thermal cyclers that use glass capillary systems.

**MP Biomedicals/Qbiogene** For information 800-854-0530 [www.qbiogene.com](http://www.qbiogene.com)

## ROX-Free PCR Kit

The BD QTag ROX-Free DNA Polymerase Kit not only provides the sensitivity and specificity needed in real-time quantitative polymerase chain reaction (qPCR), it also provides the ability to adjust the passive reference dye concentration. Because the ROX dye is provided separately, the kit allows the user to determine the best passive reference dye concentration for the experiment or to omit ROX altogether. The kit features a robust and sensitive full-length Taq DNA polymerase designed for high efficiency and yield in qPCR reactions.

**BD Biosciences Clontech** For information 800-662-2566 [www.clontech.com](http://www.clontech.com)

## Labeled Lectin

Texas-Red-conjugated tomato lectin is now available. Tomato lectin (from *Lycopersicon esculentum*) is an effective marker of blood vessels and microglial cells in rodents. Conjugation of the lectin with a fluorophore facilitates fast, one-step detection and visualization using intravascular perfusion methods or direct application to tissue sections. The red color provides contrast to green or yellow fluorescence in double-label studies.

**Vector Laboratories**

For information 650-697-3600

[www.vectorlabs.com](http://www.vectorlabs.com)

## Diamond Trimming Tools

A family of diamond trimming tools is available for the trimming of blocks at room and cryogenic temperatures. The CTT-90 is a 90-degree trimming tool, so the sample remains a consistent width during sectioning. The CTT-45 produces blocks that are pyramidal in shape. The UltraTrim allows for the trimming of blocks quickly and easily without the need for razor blades or other hand-held or mechanical trimming devices.

**Diatome** For information 215-412-8390 [www.emsdiasum.com](http://www.emsdiasum.com)

## Automated Plant DNA

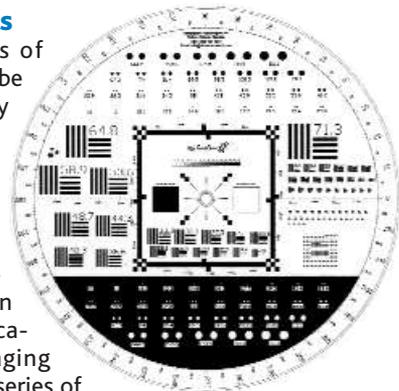
The BioSprint DNA Plant Kits enable rapid and cost-effective automated purification of high-quality plant DNA using BioSprint workstations. The automated procedure completely removes all contaminants and enzyme inhibitors, and the purified DNA is suit-

able for use in demanding downstream applications, such as polymerase chain reaction (PCR), real-time PCR, genotyping, and microsatellite analysis.

**Qiagen** For information 800-426-8157 [www.qiagen.com](http://www.qiagen.com)

## Microscope Test Slides

The Generation 3 series of microscope test slides can be used in confocal microscopy and light microscopy in brightfield, darkfield, or Hoffman contrast modes. The slides allow the user to take magnification, image resolution, and shape identification to new levels in even the highest magnification microscope and imaging system. They offer a large series of scales, gratings, squares, targets, and circles. Users can quickly identify any visual problems in an instrument, including astigmatism, barrel effect, aberrations, and more.



**Electron Microscopy Sciences** For information 215-412-8400

[www.emsdiasum.com](http://www.emsdiasum.com)

## Cell Culture Perfusion

A new line of disposable spinfilters has been developed for medium perfusion in cell culture processes. The Spinfilter P is constructed from precision-woven, open-mesh polyethylene terephthalate polyester (PETP) fabric on a polycarbonate body. This highly specialized monofilament fabric is characterized by precisely controlled pore sizes with tight tolerances. The material provides consistent and even surface properties for highly reproducible results. Standard pore sizes are 10, 20, and 40  $\mu\text{m}$  with custom sizes also available. The disposable Spinfilter P line is available for vessels

ranging from 1 to 500 liters and can be used with a variety of stirrer shaft diameters by using the appropriate mounting adaptors.

**Sartorius BBI Systems** For information

800-258-9000 [www.sartorius-bbi-systems.com](http://www.sartorius-bbi-systems.com)

## Literature

*Worthington Biochemical Company 2005 Product Catalog* features enzymes, biochemicals, and primary cell isolation kits for applications in life sciences research, diagnostics, and biotechnology. New and traditional products are included with applications in primary cell isolation and cell culture, protein research diagnostic enzymology and reagent production, and molecular biology.

**Worthington Biochemical** For information 800-445-9603

[www.worthington-biochem.com](http://www.worthington-biochem.com)

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# Science

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