



Custom-Bonded Chromatography Media

Customsil, custom-bonded chromatography media for demanding pharmaceutical and biotechnology applications, can be used when other commercially available media fail to provide the required resolution. Custom, proprietary chemistries can be developed by Phenomenex and reserved for individual customers and companies. Customsil custom-bonded phases are currently available in 17 different chemistries that may already fit the needs of many applications. All materials can be packed in columns ranging in size from microbore to preparative. **Phenomenex. Circle 139.**

Data Acquisition Software

An enhanced version of Viewdac software, an MS DOS-based, integrated data acquisition, analysis, and graphics package for IBM-compatible personal computers is available. The program provides exceptional power, ease of use, and flexibility without the need for conventional language programming or complex data flow diagrams. It is well suited for developing real-time applications that involve concurrent data acquisition, calculation, and display. It supports input and output from a variety of Keithley Metrabyte data acquisition hardware, as well as IEEE-488 and RS-232 instruments. It allows precise timing of multiple independent tasks and can overcome the conventional 640-kilobyte MS DOS memory boundary to support very large data arrays limited only by the amount of storage space available. **Keithley Metrabyte. Circle 140.**

Monoclonal Antibodies

Several new monoclonal antibodies (mAbs) available include a mAb (CBL 145; clone 44) to CD11b (C3b receptor), a member of a family of leukocyte integrins that is principally distributed on circulating monocytes and granulocytes; a mAb (CBL 206; clone 1.G11B1) to vascular adhesion molecule 1 (CD106), a member of the immunoglobulin family expressed on endothelial cells; a mAb (CBL 212; clone RT97) to intermediate-sized filaments, which are insoluble proteins that impart a three-dimensional internal skeleton to each cell; and a mAb (CBL 140; clone XIX.8) to CD2, a 54 kD adhesion molecule found on the surface of all thymocytes and mature human T cells. The antibodies can be used in indirect immunofluorescence, immunohistological staining, and flow cytometry. **Cymbus Bioscience. Circle 141.**

This mAb, which labels the p53 protein in the nuclei of neoplastic cells, is for study of tumor formation and the role of p53 protein in growth control. The p53 protein is significant in the growth and division of healthy cells, but once mutated, can spur the development of tumors. The mAb can be used on formalin-fixed, paraffin-embedded tissue sections. **Biomed. Circle 142.**

Gel Extraction Kit

The Jetsorb gel extraction kit is designed to extract a wide range of DNA fragments (20 bp to 45 kb) from all types of agarose gels. The Jetsorb resin is based on uniform, modified silica gel beads. The kit provides the same binding efficiency for both small and large DNA fragments (>98%), no shearing of larger fragments, excellent recovery of all DNA frag-

ments (85 to 95%) and efficient removal of impurities such as proteins, dyes, and agarose. **AMS Biotechnology. Circle 143.**

DNA Extraction Kits

The Isolate 1 and Isolate 2 kits are for DNA extraction based on silica. The Isolate 1 Kit is suitable for genomic DNA extractions from whole blood and cell cultures. It provides DNA with an A_{260}/A_{280} value of 1.80 and obtains large fragment DNA of 30 kb and above. It typically yields 10 μ g or more from 0.5 ml of blood. It contains no hazardous reagents and does not require use of proteinase K. Total extraction time is less than 2 hours. The Isolate 2 Kit shares many of these qualities but is for larger quantities. It typically yields about 250 μ g of clean, large fragment genomic DNA from 10 ml of whole blood. **Cruachem. Circle 144.**

Polymerase Chain Reactor

The SPCR3 MINI-GENE is for scientists who need to perform polymerase chain reaction (PCR) testing but cannot justify the cost and do not need the capacity of a standard PCR instrument. De-



signed to accommodate small numbers of samples, depending on the choice of heating block, it accepts up to 15 0.5-ml tubes, one small microtiter plate (8 by 4 hole format), 4 by 8 strips of 0.2-ml tubes, or 32 0.2-ml tubes.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

With its built-in Peltier thermoelectric refrigeration, it operates rapidly, with a peak heating rate of 1.8°C per second and peak cooling rate of 1.2°C per second over a temperature range of 4° to 99°C. It offers 48 linkable programs of 29 segments each, and the illuminated display continuously presents full reaction cycle conditions. **Stuart Scientific. Circle 145.**

Literature

Application Guide for chiral column selection summarizes a large number of chiral separations using Daicel chiral high-performance liquid chromatography columns. **Chiral Technologies. Circle 146.**

Software for Science is a 96-page listing of more than 1500 scientific and technical software tools for DOS, Windows, Macintosh, and UNIX workstations, including more than 300 new products. An electronic version is also available. **SciTech International. Circle 147.**

Purification of DNA from LMP Agarose with Microcon-100 Microconcentrators describes this protocol. **Amicon. Circle 148.**

The BIOPREP Catalogue: Preparation Devices That Put Your Research A Step Ahead offers products for sample preparation and other applications for life science research. **Millipore. Circle 149.**

Innovative Products for Life Science Research is a catalog featuring a fluorescence polarization system that provides real-time macromolecular binding measurements directly in solution with picomolar sensitivity; polymerase chain reaction products, including kits for DNA amplification, RNA amplification, cloning, mutagenesis, mycoplasma detection, and thermal cycle sequencing; purified proteins, enzymes, and nucleic acids; and more. **PanVera. Circle 150.**

PRODUCTS & MATERIALS

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