

Fluorescent protein. HcRed is a far-red fluorescent protein that can be multiplexed with other fluorescent proteins, expanding the options for expression studies. Because it fluoresces in the far-red region of the spectrum, it provides a high signal-to-noise ratio and avoids the effects of cellular autofluorescence.

BD Biosciences

www.bd.com



Spectrometer. The novAA 300 atomic absorption spectrometer has a graphical user interface for day-to-day laboratory routine. As a stand-alone instrument, it can be configured for plain or complex applications. A touch-sensitive screen permits intuitive operation and makes an external PC unnecessary. It is completely monitored by sensors and software and is equipped with a D₂ hollow cathode lamp.

Analytik Jena

www.analytik-jena.de

Benchtop synthesizer. The 2050 is a compact unit that enables process chemists to perform quick, exploratory, parallel reaction experiments at different temperatures. The 2050 offers independent temperature control over five reaction vessels, the option of using fewer than all of the vessels, and a cold reflux head to recycle volatile reagents back to the reaction mixture. It also provides independent high-temperature

reaction cutoffs for each vessel and a sealed reaction environment for inert-gas experiments, prevention of external condensation, and safety.

Argonaut Technologies

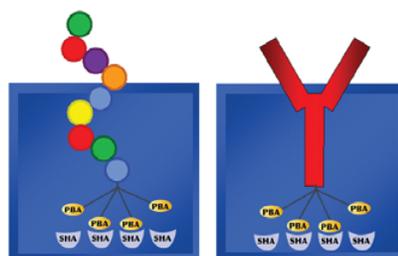
www.argotech.com



Website/literature. This website and the 12-page booklet display more than 100 sterile, leak-proof, biologically tested packaging products, including PETG/PET media bottles, B3 media bags, HDPE narrow-mouth bottles, PETG serum vials, Biotainer bottles and carboys, and Micro Packaging Vials. Designed and manufactured in an ISO 9001-certified environment, the sterile-packaging product line is for pharmaceutical, biotechnology, cell culture, and diagnostic reagent packaging applications. Free samples can be ordered online.

Nalgene

www.nalgene-packaging.com



Reagent. An iodoacetamide derivative of the binding moiety P(D)BA is used as an alternative to sulfhydryl alkylating reagent (maleimide reagent). This reagent reacts with sulfhydryl groups in proteins such as those of cysteine residues by forming a stable thioether bond. It facilitates the immobilization of proteins on SHA-modified surfaces such as microwell

plates, beads, and microarray slides for assay development.

Versalinx

www.prolinx.com



Albumin depletion. The Montage kit improves the resolution of low-abundance proteins by electrophoresis, chromatography, or mass spectrometry. The kit's centrifugal columns are prepacked with an affinity resin specially formulated to bind more than 65% of albumin without binding significant amounts of other serum or plasma proteins. It is optimized for the depletion of human albumin and can process samples in less than 15 min. The protocol can also be used for bovine, canine, goat, mouse, rabbit, and rat samples without modifications.

Millipore

www.millipore.com/montage



DNA screening. This tool for DNA sequencing is accurate and efficient, and it offers resolution directly comparable to that of conventional electrophoresis. It has low running costs and provides high-throughput automated analysis and high-quality data. Labeling or tagging by fluorescence is unnecessary, making the whole process economical. Each automated sample analysis takes only 15 min, and components can be accurately identified with precise temperature control and accurate solvent delivery.

Shimadzu

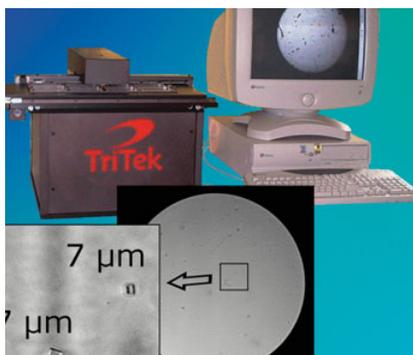
www.shimadzu-biotech.net

Human genome database. This manually annotated database contains comprehensive automatic annotation and the results of extensive and consistent manual annotation. It can be used alone or as a content source for other applications. The data-

base starts with publicly available sequence data. Genes are identified with the FGENESH++ gene modeling software. Automatic annotation is then performed using Analysis Suite software. Finally, each gene is verified using a systematic process of manual annotation.

Biomax

www.biomax.com



Protein crystal imaging. This fully integrated, computer-controlled, high-throughput, variable-zoom microscopy system is designed for detecting tiny crystals in large fields of view. The software enables the system to autoscan each well while capturing images (with annotation and time-date stamp) at a rate of 768 wells per hour. Customized program options include crystal discrimination and image analysis.

TriTek

www.tritek.com

Protein purification. The Phospho-Protein kit offers complete separation of phosphorylated proteins from cell lysates. It contains affinity chromatography columns, buffers, and reagents for efficient purification of phosphorylated proteins and ultrafiltration devices for subsequent concentration of protein fractions. Both phosphorylated and unphosphorylated protein fractions retain full biological activity and can be further purified if desired.

Qiagen

www.qiagen.com

Hybridizer. This slide processor fully automates the hybridization step of microarray applications. The flexible, modular system minimizes manual handling, simplifying microarray experiments and improving the reliability and reproducibility of results. It runs standard hybridization protocols simultaneously or at staggered start times. It automates slide pretreatment, nonstatic hybridization, stringency washes, and slide

drying. The system includes 1–5 modules, each containing 6 hybridization chambers, and offers users the flexibility of processing 1–30 slides at a time.

Amersham Biosciences
www.amershambiosciences.com

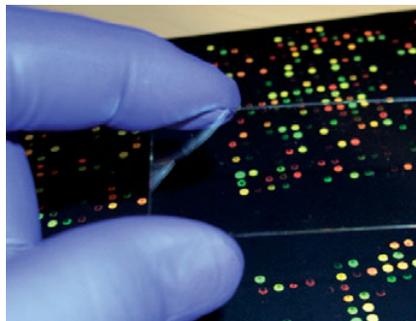
Liquid handling. The Evolution P³ is a 96- or 384-tip automated system that features 16 deck positions. Using disposable tip technology, it offers accurate dispensing into 96-, 384-, and 1536-well, shallow- and deep-well microplates in volumes from 0.5 µL and up. The system has a wide range of liquid-handling applications, including plate compression or expansion from 96-, 384-, or 1536-well microplates, plate replication and reagent additions, serial and plate-to-plate dilutions, primary and secondary screening, cell-based and ELISA assays, and pre- and post-PCR assays.

PerkinElmer www.perkinelmer.com

Software. Version 2.0 of the KnowItAll informatics system is a complete collection

of software tools and data for multiple spectral techniques and cheminformatics, all within one interface. Features include the ability to draw, store, and search complex mixtures of stereoisomers, including enantiomers and diastereomers; 3-D structure viewing capability; database searching; and a network installation option.

Bio-Rad www.bio-rad.com



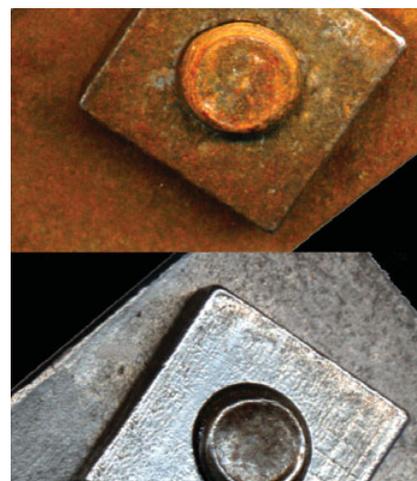
Slides and reagents. OmniGrid units are equipped for optimized microarray experimentation to meet the increasingly stringent needs of researchers. Building

on the existing line of OmniGrid microarrayers, this product offers three substrate types (aldehyde, epoxy, and amine slides) and a full line of supporting reagents.

GeneMachines www.genemachines.com

Software. UNITY is a search and analysis system for exploring chemical and biological databases. Its 2-D searching capabilities offer exact, substructure, and similarity searches that incorporate Markush query specifications. Its 3-D searching capability finds molecules that can satisfy queries regardless of the conformation stored in a database. UNITY structural queries can be based on molecules, molecular fragments, pharmacophore models, or receptor sites.

Tripes www.tripos.com



Lubricant. TKO₂ is a new general-maintenance lubricant for industrial applications involving ferrous metals. The spray-on penetrating lubricant displaces corrosion products such as rust and puts down a long-lasting barrier film that keeps water out and prevents further corrosion. It uses a long-lifetime formulation to avoid evaporation, and once applied to a metal surface, it provides continuous protection and lubrication. It is packaged in 16-oz spray cans with nonflammable propellant.

Findett www.findett.com

Column. The Zebtron ZB-5MS is a polysilarylene-based phase used for high-performance MS applications. With temperature limits from –60 to 325/350 °C (isothermal/gradient), the ZB-5MS exhibits its low bleed characteristics and offers

inertness to active compounds. Improved signal-to-noise characteristics result in enhanced sensitivity and mass spectral integrity, producing more reliable results. This rugged, versatile column is stable-bonded, cross-linked, and solvent-rinsable.

Phenomenex www.phenomenex.com



Robotic arm. The Stackbot is controlled by a track plate rather than a personal computer, ensuring that a programmer or a skilled technician is not needed for new pallet patterns. A 2-min swap of a track plate creates the new pattern, and the robot can load or unload two different pallet patterns simultaneously in an area smaller than that required for current manual loading. It palletizes or depalletizes up to 10 cases (pails, bags, bales, or trays) per minute.

American Productivity Group www.apgllc.com

Trace kit. This kit is for the preparation of highly pure genomic DNA from small amounts of any tissue, cell, or forensic sample. The optimized shape of the funnel column combines the handling of large volumes (up to 8 mL) with simultaneously low elution volume (50–100 μ L). Therefore the funnel columns are suited for collecting traces of nucleic acids from dilute samples in forensic investigations. The DNA Trace kit allows purification of up to 20 μ g of highly pure genomic DNA with typical recovery rates of above 70% for amounts above 10 ng of DNA.

Macherey-Nagel www.macherey-nagel.com

Microplate reader. For 6- to 384-well plate formats, this detector is ideal for

many life science applications in the 340–750-nm wavelength range, including colorimetric reporter assays, ELISAs, and protein quantification assays. The instrument offers single and dual wavelength; kinetic, linear-scan, and area-scan measurement modes; as well as multiple data ports for device connection. It also features shaking and temperature control. The software is easy to program and provides extensive kinetic data reduction as well as quantitative and qualitative analysis.

Beckman Coulter www.beckmancoulter.com



Cell viability analyzer. The Vi-CELL automates the widely accepted trypan blue tissue culture protocol. Compared with manual techniques, the number of cells that the analyzer counts is significantly greater, and results are obtained in minutes.

Beckman Coulter www.beckmancoulter.com

Attenuator. This instrument for HPLC and LC/MS is fully automated and designed for postcolumn preparative applications, in which small aliquots of an effluent stream are sampled at predetermined intervals and directed to the mass spectrometer or other detector. It requires no tubing calibration and is unaffected by viscosity and pressure change. Split ratios may be chosen between 100:1 and 100,000:1.

Richard Scientific www.richardscientific.com