© 2002 Nature Publishing Group http://biotech.nature.com

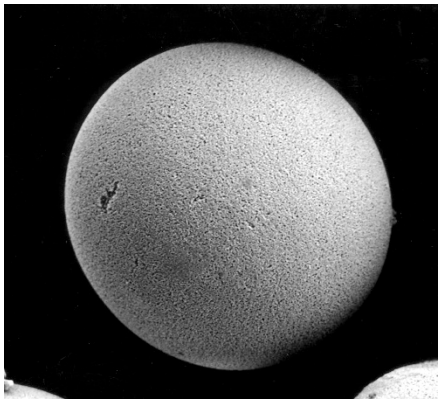
Chromatography

Chromatography refrigerators

Revco REC Series chromatography refrigerators are designed for a variety of applications requiring close temperature control (ranging from 1°C to 8°C), full access to chromatography instrumentation, and easy setup of instrumentation and apparatus within the chamber. Featuring a microprocessor control system, positive air-flow systems, industrial-quality cabinet construction, and extra-strength refrigeration compressors, all five models offer simple operation and deliver greater accuracy.
http://www.revco-sci.com

Automated purification system

Horizon is an easy-to-use purification system for use with Biotage's High Performance FLASH Chromatography (HPFC) line of products. It is highly upgradable, giving chemists a choice of configuration ranging from just the Horizon pump to a full system consisting of pump, gradient module, detector recorder, and collector with peak-detection software. The system is compatible with the entire Biotage FLASH family of cartridge modules, from the 4-g 12+S cartridge to the newly designed 65i module that incorporates 300-g silica cartridges.
http://www.biotage.com



New medium

UNOsphere ion-exchange supports from Bio-Rad Laboratories are a new chromatographic capture medium specially designed for large-scale process applications such as biopharmaceutical manufacturing, where monolithic chromatography columns are not practical. The supports feature high binding capacities at fast linear velocities in conjunction with low column backpressures, increased productivity and enough stability to withstand rugged clean-in-place conditions. UNOsphere beads are an extension of the patented polymer technology in Bio-Rad's UNO continuous bed columns.
http://www.bio-rad.com

Thermal cycling

Gradient thermal cycler

Eppendorf's Mastercycler Gradient features the unique SteadySlope technology that allows temperature conditions across the block to be tested rapidly, efficiently, and in one experiment, ensuring temperature consistency in the ramping rate for the gradient block. The gradient can be programmed in spans up to 20°C across the block, providing denaturation or extension temperatures within one cycle.
http://www.eppendorf.com

Cloning kit

QIAGEN PCR cloning kits combine the high efficiency of UA hybridization with robust QIAGEN EZ competent cells for fast and simple cloning of PCR products. The complete cloning procedure takes only 40 min, making it much faster than TA-based, topoisomerase-mediated, and conventional sticky- and blunt-end cloning methods. Kits are available in two convenient formats: with and without QIAGEN EZ competent cells. These cells are supplied in the QIAGEN PCR Cloning*plus* Kit as ready-to-use aliquots for single transformation reactions.
http://www.qiagen.com

PCR workstations

C.B.S. Scientific's PCR workstations, designed to protect against contamination, now include stainless-steel ceilings. With this feature, the ultraviolet dose at the work surface is increased 10% in the workstations with a single UV bulb and 20% with a dual UV bulb. The dual-bulb format irradiates areas that might otherwise be inaccessible and is ideal for the decontamination of apparatus and reagents. Standard features of the workstations include single or dual 254-nm UV lamps with 12-h countdown timer, hinged safety-glass fascia for easy placement and removal of large equipment, and single or dual self-storing access doors.
http://www.cbsscientific.com

Plant PCR

Sigma-Aldrich offers the Extract-N-Amp plant PCR kit for single-step extraction of plant genomic DNA in <15 min. A novel extraction solution eliminates the need for conventional freezing of plant tissues with liquid nitrogen, mechanical disruption, organic extraction, column purification, or precipitation of DNA. The kit also includes REDExtract-N-Amp PCR mix, specially formulated for amplification directly from the plant extract. PCR reactions can be loaded directly onto agarose gels for analysis.
http://www.sigma.sial.com