

**RESOURCES****NEW PRODUCTS****Filtration****Cross flow filters**

A new series of hollow-fiber ultrafiltration and microfiltration cartridges from A/G Technology (Needham, MA) is designed for convenient and rapid laboratory concentration and/or diafiltration of critical biological solutions. MidGee cross-flow filters minimize polarization because of the cross-flow velocity generated by a recirculation pump. Incorporating precise control of recirculation rate and pressure, these disposable cartridges assure high product recoveries with minimal shear denaturation.

**Tel: +1 617 449 5774**  
**Fax: +1 617 449 5786**  
**RSN 986**

**Filter funnel**

Gelman Sciences' (Ann Arbor, MI) Micro-Check 47 disposable filter funnels are economical, time-saving funnels that comply with regulations requiring a 47-mm diameter membrane. The convenient, easy-to-use design includes a membrane filter and converts into a petri dish for use in the Membrane Filter Technique. They are available with your choice of Metrcel membrane for maximum performance in a wide range of applications.

**Tel: +1 800 521 1520**  
**Fax: +1 313 913 6576**  
**RSN 987**

**Ultrafiltration modules**

Intersep's (Wokingham, UK) Molsep hollow-fiber ultrafiltration modules are available in a range of membrane pore sizes and surface

areas for processing solutions with low to moderate levels of particulate suspension. Each fiber has a double-skinned structure that allows it to be used at temperatures up to 95°C and pressures of up to 3 bar. Molsep units are also steam-sterilizable and resistant to a wide range of pH and chemicals.

**Tel: +44 1734 795 566**  
**Fax: +44 1734 795 186**  
**RSN 988**

**Rotor filter**

Bioengineering's (Wald, Switzerland) rotor filter avoids filter fouling and obstruction by constantly rotating the filter sieve in the fluid, inducing centrifugal forces and secondary flow patterns to sweep the filter surface. The stainless steel sieve unit is available in a range of pore sizes, and rotation speed is controlled with an agitator controller. The filter can either be installed in the fermentor vessel or as an external bypass system.

**Tel: +41 55 256 81 11**  
**Fax: +41 55 256 82 56**  
**RSN 989**

**Thermocycling****Taq polymerase**

Qiagen's (Hilden, Germany) *Taq* licensed polymerase eliminates time-consuming optimization of individual primer-template systems by using a robust PCR buffer that combines KCl and  $(\text{NH}_4)_2\text{SO}_4$ . Interactions between  $\text{K}^+$  and  $\text{NH}_4^+$  in the buffer allow primer hybridization over a broader range of temperatures so researchers can use standard PCR conditions with different primers. Qiagen also supply a Q-solution that alters the conformation and melting characteristics of DNA, allowing amplification of difficult templates.

**Tel: +49 21 03 89 20**  
**Fax: +49 21 03 89 22 22**  
**RSN 990**

**DNA fragment analyzer**

Advanced Molecular Systems (San Jose, CA) offers reagents and kits for multiplex PCR analysis, including DNA isolation kits, multi-

plex PCR kits, primers, probes and controls, and labeling reagents, as well as a state-of-the-art DNA fragment analyzer, the FIN-GERPRINT System. It performs a variety of analyses including STR, VNTR, RFLP, and multiplex PCR analysis using multi-wavelength fluorescence detection.

**Tel: +1 408 433 9814**  
**Fax: +1 408 433 5925**  
**RSN 991**

**In situ amplification and hybridization**

MJ Research (Watertown, MA) introduces a new module for its DNA Engine line of thermal cyclers that greatly facilitates in situ amplification and hybridization procedures, including in situ PCR, FISH, and PRINS for detection of DNA signals in tissues and cells, as well as RT-PCR, RT-PRINS, and RT-hybridization for detecting RNA signals in situ. The Twin Tower module holds 2 x 16 standard slides.

**Tel: +1 617 923 8000**  
**Fax: +1 617 923 8080**  
**RSN 992**

**Primer design software**

Premier Biosoft International (Palo Alto, CA) announces Primer Premier 4 for Power Macintosh and Windows. Primers can be designed for PCR, sequencing, or hybridization probes, automatically or with full manual control. Degenerate primers can be designed from protein sequences using back translation facilities. Sequences can be edited and translated, and nested and multiplexed primers can be designed that are mutually compatible. Database storage is also provided.

**Tel: +1 415 856 2703**  
**Fax: +1 415 843 1250**  
**RSN 993**