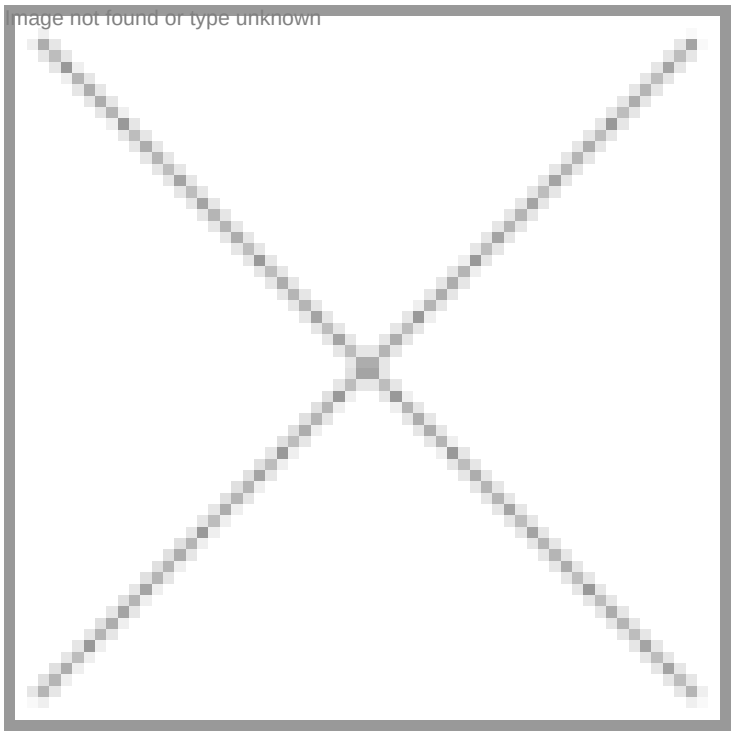
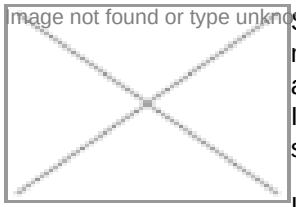
BioSpectrum the business of Bio & Health Sciences

Kendro

16 December 2004 | News



Kendro's offers Series 7000 Function Line Incubators



Series 7000 Function Line incubators from Kendro Laboratories are equipped for numerous routine microbiological incubation processes. The incubators come standard with an independent, adjustable over temperature controller. A large digital display simplifies operation and control. Instruments are available as gravity (B series) or mechanical (UB series) convection models in three sizes.

Integration of the control panel into the front door makes the footprint of the incubators exceptionally small. Smooth inner chamber stainless steel surfaces and rounded corners allow easy cleaning and prevent contamination. Excellent temperature uniformity and state-of-the-art microprocessor control ensure high reproducibility.

For details contact: *info.in@kendro.spx.com*

Ocimum offers iRNAchek

iRNAchek, a bioinformatics tool developed by Ocimum Biosolutions, provides a comprehensive and intuitively designed environment for organization of sequence data, design of siRNAs, and tracking and analysis of successful templates. It provides a facility to design the siRNA based on the regions of interest. These regions can be set based on open reading

frames, introns, exons, UTR regions and other sequence annotations. There is also a provision to eliminate templates from specific regions. It is very essential to design siRNA targets that do not fall within functionally significant motifs and domains of the sequence. iRNAchek takes care of this efficiently by the use of a filter to refine the results based on motif and domain search.

iRNAchek helps the user select specific siRNAs using intuitively designed BLAST tool. Using this tool the user can search for potential matches from NCBI database or can create his own proprietary database and search for matches against proprietary databases for possible matches.

For details contact: *hyd@ocimumbio.com*

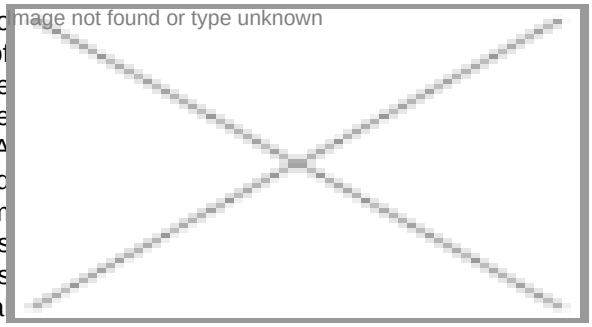
Lab Vantage offers Sapphire Life Sciences LIMS

LabVantage developed Sapphire Life Sciences LIMS exclusively for the Life Sciences sector to enable the researchers to focus on their core competencies, while eliminating the research bottlenecks. Sapphire enables science with intuitive, intelligent, and precisely traceable sample management. It provides a full-featured, flexible experiment management capability that's applicable in genomics, proteomics, and HTS. This enables rapid automation of experiments and studies, with smart visual objects designing the specific lab's experiments and protocols.

Sapphire provides complete plate management solutions for integration of cherry picking, transferring, loading and more. The multi-faceted Sapphire solution thrives on managing multidimensional arrays. From flexible pattern-specific loading, cherry picking, and re-arraying - to multiple media types including DNA Chips for genomics and IPG Strips - to gradient gels for proteomics. It supports all documentation needs for 21 CFR Part 11 compliance. Sapphire fully supports 21 CFR Part 11 compliance and is deployed as a "closed system" or an "open system with appropriate controls." Extensive data and sample management auditing capabilities are available for organizations requiring 21 CFR Part 11 compliance.

For details contact: *akastuar@labvantage.com*

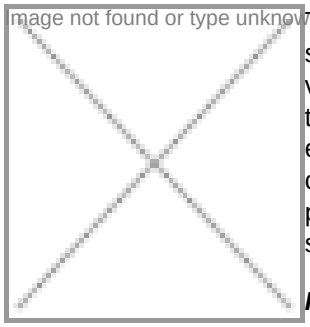
BioRad introduces VersArray Hybridization Chamber



The VersArray hybridization chamber of Bio-Rad is specifically designed to increase the effectiveness of manual (coverslip) hybridization of microarrays. The chamber accommodates one or two slides, allowing the simultaneous processing of two microarrays. Loading is simple - the chamber is easily opened and closed using the single attachment bolt. A unique pressure mechanism*(*Patent pending) promotes a uniform and watertight seal, allowing incubation in a water bath. The aluminum composition ensures superior thermal transfer, while the water reservoirs prevent slides from drying out. The VersArray hybridization chamber is easy to use, protects the microarray slides, and provides the ideal environment for the cover slip hybridizations.

For details contact: *sales.india@bio-rad.com*

BD Bio sciences develops BD PuraMatrix



The Discovery labware of BD Bio sciences has developed BD PuraMatrix Peptide Hydrogel. It is a synthetic matrix that is used to create defined three-dimensional (3D) microenvironments for a variety of cell culture experiments. To achieve optimal cell growth and differentiation, it is necessary to determine the appropriate mixture of this material and bioactive molecules (e.g., growth factors, extracellular matrix (ECM) proteins, and/or other molecules). BD PuraMatrix Peptide Hydrogel consists of standard amino acids (1% w/v) and 99% water. Under physiological conditions, the peptide component self-assembles into a 3D hydrogel that exhibits a nanometer scale fibrous structure.

For details contact: *bd_india@bd.com*

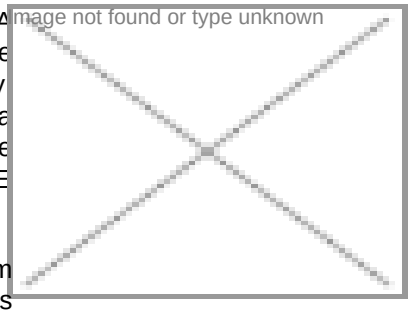
Custom-built magnetic mixers for Indian market

Florence, Italy based manufacturer of agitators for pharma and biotech applications, Mariotti & Pecini (M+P) has introduced customised magnetic torque driven agitators and mixers for Indian market. The pharma and biotech industry in India hitherto had to be content with off-the-shelf catalogue models of magnetic mixers from overseas manufacturers. From now on, M+P and their agents TurbuLens Technologies, Bangalore will be able to offer customisation of shaft, impeller, mountings, and drive units for magetic mixers in top, bottom and side entry versions upto 10,000 litres vessels.

Process parameters and operating conditions in cell culture reactors, microbial fermentors and media vessels and tanks demand special impeller profiles, shaft contour, bush mountings, bearings and speed control in mixers. With M+P, the customer can exercise his/her options on all these components that are crucial for process performance, product yield efficiencies and overall batch economics. From the point of view of regulatory bodies and facility audit magnetic mixers have ready acceptance as they support cGMP norms, CIP & SIP, batch containment and product integrity.

For further info email to: *info@turbulens.biz or info@mariotti-pecini.it*

SuperArray Biosciences launches GE Array systems



SuperArray Bioscience Corporation, USA, has introduced nylon membrane-based cDNA array systems called GE Array Systems. These can profile the expression of multiple genes on a single array. Instead of including as many genes as possible on a single array GE Array systems are designed to determine the expression of genes involved in a specific biological pathway, or genes with similar functions or structural features. The biological information provided in each array improves research productivity. The GE Arrays are available in two different formats:

The GE Array Q Series cDNA expression arrays contain up to 96 cDNA fragments from genes associated with a specific biological pathway as well as four housekeeping genes whereas the GEArray Original Series gene arrays contain up to 23 cDNA fragments from genes associated with a specific biological pathway as well as two housekeeping genes.

SuperArray Biosciences also provides three types of cDNA probe synthesis kits viz. AmpoLabeling-LPR kit, TrueLabeling-RT kit and conventional RT-Labeling kit. These products are available in India through the Delhi-based Biotech India.

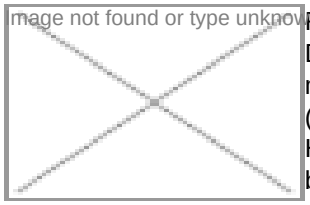
For further details, contact: *info@biotechindia.com*

SRP Enviro Systems offers bio-safe EEF filter units

The New Delhi-based SRP Enviro Systems offers ultra high performance cleanroom filtration systems at low energy consumption 0.4 W/scfm and yet has enough fan power to overcome return and supply flow restriction. The higher efficiency enables lower airflow with significant energy savings. The installation and operating costs will also be on lower side. There is no contamination during filter servicing. The terminal HEPA filters, if required, should never need changing. It can be easily upgraded from the existing cleanrooms and the cost involved in conversion of dry wall rooms will be inexpensive. There is no contamination during filter servicing. The filter requires minimum 30" service space on the side opposite the electrical box.

For details contact: *delhi@srpenviro.com*

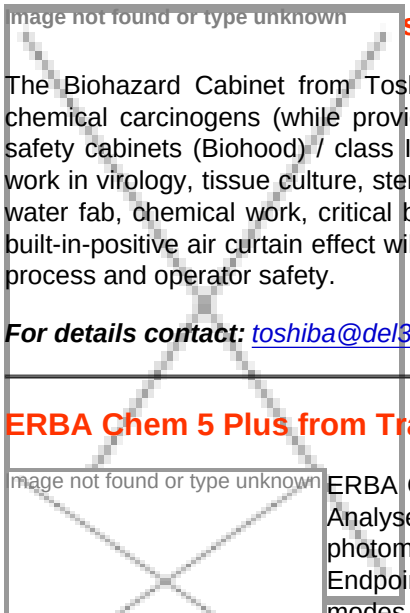
Mycoplasma Detection Kit by R&D Systems



R&D Systems, USA, has introduced a Mycoplasma Detection Kit. The "Mycoprobe" Mycoplasma Detection Assay is a 4.5-hour colorimetric micro plate assay designed for routine screening of mycoplasma contamination in cultured cells. This assay detects Mycoplasma 16S ribosomal RNA (rRNA) using a colorimetric signal amplification system with sensitivity comparable to PCR. However, the MycoProbe assay is not susceptible to common problems encountered with PCR-based mycoplasma detection kits. The MycoProbe assay detects approximately 95 percent of all mycoplasma contaminations. This assay can be used to detect mycoplasma contamination using

either cell culture supernates or cultured cell pellets. Samples are prepared by dilution in the lysis buffer provided in the kit. Passage of cultured cells in antibiotic-free media is not required. The strip-well microplate format is amenable to a small number of samples as well as application requiring high sample throughout. The product is being distributed exclusively in the country by Delhi-based Biotech India.

For further details, contact: *info@biotechindia.com*

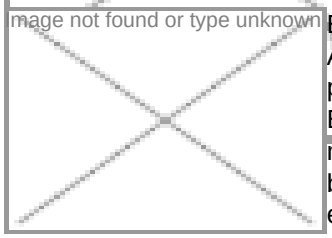


safety cabinets

The Biohazard Cabinet from Toshibha (India) offers operator protection from low to moderate risk biological agents or chemical carcinogens (while providing a sterile work environment for the procedure). The applications of these biological safety cabinets (Biohood) / class II biological safety cabinets include isolation and identification of plant/human pathogens, work in virology, tissue culture, sterility testing and recombinant DNA research. These cabinets are suited for wet processing, water fab, chemical work, critical biological work involving virus and pathogens and for microbiology, biochemistry etc. The built-in-positive air curtain effect will prevent inside air from going out and room air from entering in, there by providing a total process and operator safety.

For details contact: *toshiba@del3.vsnl.net.in*

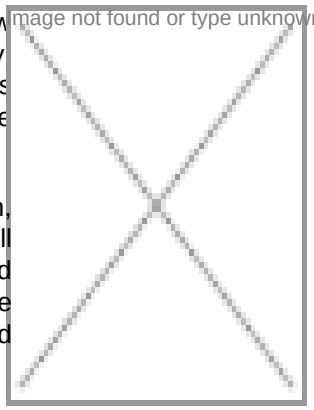
ERBA Chem 5 Plus from Transasia



ERBA Chem 5 Plus from Transasia Biomedicals is a sophisticated Semi-Auto Clinical Chemistry Analyser. Its advanced and unique optics technology combines the proficiency of eight individual photometers and ensures long life and high precision. It has versatile analytical options such as Endpoint (Linear & non-linear), Kinetic and Fixed time, in Monochromatic and Bichromatic modes. It displays, prints and memorizes graphs of all linear and non-linear reactions. It has a built-in self-diagnosis that ensures simple and safe maintenance. ERBA Chem 5 Plus is an economic system as it uses only 200-500 µl reagent per test and it has unique plug-in memory chip for future up-dating and expansion.

For details contact: *webmaster@tbm.net*

Millipore, Caliper Life Sciences introduce validated automation protocols



Millipore Corporation and Caliper Life Sciences have announced the availability of three new validated protocols to automate drug discovery applications. The methods for 96-well solubility PAMPA and permeability assays were developed using Millipore's MultiScreen® assay systems and Caliper's Sciclone ALH 3000 Liquid Handling Workstation. The integrated solutions ensure hands-free operation and maximize productivity.

The Caliper Sciclone ALH 3000 Liquid Handling Workstation offers leading-edge precision, adaptability, and scalability, enabling the efficient automated processing of 96, 384, and 1536-well microplates for life science research and diagnostic testing. Leveraging a unique, open and modular design along with a wide range of interchangeable pipetting options and accessories, the Caliper Sciclone workstation can be configured to automate many applications, from nucleic acid and protein sample preparation protocols to molecular and cell-based screening assays, and more.

Millipore's MultiScreen Solubility Assay System, MultiScreen Permeability filter plate, and MultiScreen filter plate for PAMPA are part of a family of optimized ADME (absorption, distribution, metabolism and excretion) assays. Developed to effectively screen drug compounds in the early stages of discovery, the MultiScreen pre-ADME and ADME profiling tools are designed to improve lead predictability and increase productivity. The company's ADME offering also includes the MultiScreen Caco-2 Assay System for cell-based absorption assays, MultiScreen Ultracel®-PPB filter assembly for plasma protein binding, and the MultiScreen Solvinert filter plate for total drug analysis.