

X-Ray Fluorescence Spectrometer

The Nanohunter benchtop total reflection x-ray fluorescence spectrometer is designed to offer comprehensive trace element and materials characterization analysis to a broader range of research disciplines, and in more diverse analytical settings, than was possible with previous technology. Whether for geologists, chemists, biochemists, biologists, materials scientists, or engineers, non-destructive trace element analysis is attainable, with minimal sample preparation, for applications that span from metallo-protein research to environmental assessment and semiconductor wafer metrology. Nanohunter features a patented, switchable wavelength and automated variable x-ray incidence angle excitation design. The instrument can analyze the full range of elements in solids, liquids, and powders. It also provides chemical information as a function of analysis depth for profiling surface characteristics of materials. For example, for researchers involved in nano-technology, this ability allows surface layers to be characterized as particles on a substrate, a homogenous thin film, or as something in between.

Rikagu For information 281-362-2300 www.rigaku.com



Stirring Hotplate

The Carousel Stirring Hotplate is a third-generation system with a host of new features to enable faster heating, more powerful stirring, greater accuracy, and superior safety. Offering adjustable speed control from 0 to 1200 rpm and a stirring capacity of up to 20 liters of water, the hotplate can perform a wide range of laboratory tasks. A digital display offers accuracy in setting stirring speeds and temperature. A removable PT1000 temperature sensor is standard.

Radleys For information +44-1799-513320
www.radleys.com

NIR Reference Materials

New certified reference materials for the near infrared (NIR) region of the spectrum are now available. The NIR region has recently found new and important applications, and verification of the wavelength scale in the region is particularly important because small wavelength errors can cause significant problems. Convenient reference materials have been hard to come by because they have too few peaks across the region or require the use of volatile solvents. This new reference material provides 13 certified and traceable peak values.

Starna Scientific For information
+44 (0) 20 8501 5550 www.starna.com

Centrifugal Evaporator

The EZ-2 Series centrifugal evaporators combine performance and safety in a compact benchtop unit. Similar in size to a rotary evaporator, these instruments' innovative design presents advantages in parallel synthesis and medicinal chemistry, as well as for general-purpose solvent removal in life science laboratories. Technological innovations guard against overheating or losing samples through solvent bumping. The evaporator offers true unattended operation and

requires no user training. Solvents collect in an insulated, plastic-coated glass vessel, enabling the user to see the progress of evaporation and determine when the trap should be emptied. With no defrosting required, the glass vessel is removed by a quarter turn, allowing the solvent to be poured directly into the waste container. The evaporator can concentrate or completely dry samples. It accommodates a wide selection of sample holders, enabling evaporation from most common sample container formats, including round-bottom flasks up to 500 ml, tubes up to 160 mm long, custom reaction blocks, and shallow-well or deep-well microplates.

Genevac For information +44 1473 240000
www.genevac.com

Purification Resin

Ni-NTA Superflow resin for the purification of histidine-tagged proteins is now available in pre-filled 1 ml and 5 ml cartridges for purification on liquid chromatography platforms such as the FPLC, AKTA, and BioLogic systems. Ni-NTA matrices are the most cited solutions for purifying 6 \times histidine-tagged proteins. Their high stability means that they are compatible with a wide range of buffer components, including strong denaturants, detergents, and even reducing agents.

Qiagen For information 800-426-8157
www.qiagen.com

Microarray Services

LC Sciences offers custom products and specialty microarray services of nucleic acid and protein analysis, biomarker discovery, novel drug screening, and custom development of miniaturized assay devices for diagnostics and biosensing applications. These products and services are based on a proprietary technology that integrates multiple high-throughput bio-

analyses on a single platform. The mParaflo microfluidics technology integrates high throughput parallel synthesis, microfluidics, and digital photolithography to create custom microarrays of DNA, RNA, and peptides. Specific services include a microRNA Profiling Microarray Service, a Small Non-coding RNA Discovery Microarray Service, and a Peptide Microarray Service. Custom services include protein-binding oligonucleotide arrays for detection and profiling of transcription factors, nuclear receptors, DNA/RNA binding proteins, peptides, enzyme co-factors, carbohydrates, and metabolite molecules, and peptidomimetic arrays for lead drug or novel ligand discovery.

LC Sciences For information 888-528-8818
www.lcsciences.com

Ribonuclease R

Ribonuclease R is a magnesium-dependent 3' \rightarrow 5' exoribonuclease that digests essentially all linear RNAs but will not digest lariat or circular RNA structures. Intron RNA can be isolated from total RNA samples by digestion with ribonuclease R. After digestion, only lariat structures that are produced during the pre-messenger RNA splicing of intron regions remain. Applications include alternative splicing studies, gene expression studies, intron complementary DNA production, and intronic screening of complementary DNA libraries.

Epicentre Biotechnologies For information
800-284-8474 www.EpiBio.com

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 of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.

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