New Products: Sample Prep/Handling

SEMI-MICRO BALANCES
The NewClassic MS105 converts easily from a laboratory balance with 0.01 mg readability into a standalone pipette check-station: an evaporation trap is the only external device needed if the pipetting volume is smaller than 50 μl. The trap keeps humidity levels stable during the check and thus minimizes evaporation for accurate testing. Since minute quantities cannot be measured directly, ISO8655-6 recommends distilled water for gravimetric capacity meter calibration. Distilled water is pipetted onto the balance and converted to a volumetric value. An application built-in to the balance firmware guides users through the check process. Systematic and random pipette errors are automatically calculated in absolute and relative values. Results are displayed and can be printed for traceability or for easy and quick comparison with the manufacturer’s tolerances. The NewClassic MS is ideal for labs that need frequent accuracy checks in between periodic required ISO standard calibrations.

Mettler Toledo
For info: 800-638-8537 | www.mt.com

ELECTRONIC PIPETTE
The intuitive operating concept and ergonomic display of Eppendorf Xplorer plus pipettes set new standards in simplicity, precision, and reproducibility. The Xplorer is specially designed for users working with complex or long pipetting series requiring the exact setting of parameters, maximum reproducibility, and low operating force. The Xplorer plus has intelligent applications, adjustable fixed-volumes, and allows individual programming tasks to be performed much faster and easier. The Xplorer plus also includes a history function that automatically saves the last parameters for faster handling. A password can be entered to guarantee the highest degree of protection for your programming and settings. Together, these features mean no more delays due to complicated programming or inflexible processes. Instead, you get precisely adjustable parameters, reproducible results, fatigue-free work, and consistent, full control over the pipetting processes.

Eppendorf
For info: 800-645-3050 | www.eppendorfna.com

CHIRAL RESOLUTION SCREENING AND PURIFICATION KITS
Maybridge Chiral Resolution Screening and Purification Kits give organic chemists simple and rapid access to optically pure chiral compounds from their racemic mixtures. Identifying the best separation conditions under which a target compound can be isolated with optimal yield and purity can take days, or even weeks. These new, ready-to-use kits reduce development time to just one day, with as little as 0.4 mmol of racemate required. As a commonly used process to obtain optically pure chiral compounds from their racemic mixtures, diastereomeric crystallization requires careful optimization of process conditions. Maybridge Chiral Resolution Screening and Purification Kits consist of 384 different combinations of resolving agents and solvents, for both acid and amine-based resolutions, to increase the chances of finding the optimal separation conditions. Cost-effective and convenient, with resolving agents and solvents predispensed in 96-well plates, the kits provide easily identifiable results when screening and simple recovery and purification of enantiomers.

Maybridge/Thermo Fisher Scientific
For info: +44-(0)-1840-770567 | www.maybridge.com

SPECTROPHOTOMETER
The 6850 ultraviolet/visible spectrophotometer is Jenway’s first double-beam instrument with a variable spectral bandwidth—of 5 nm down to 0.5 nm. This new instrument has highly stable optics and is particularly well-suited for use in laboratories where compliance with multiple regulatory agencies is required. The double beam optics and two detectors measure the sample and reference simultaneously for optimum measurement accuracy and stability over long periods of time. The 6850 has a variable spectral bandwidth of 0.5 nm, 1 nm, 2 nm, 4 nm, and 5 nm, giving flexibility while ensuring compliance with European Pharmacopeia requirements. The narrow spectral bandwidth also ensures improved peak resolution. An integrated user interface provides full control of the instrument so there is no need to buy a PC to run the spectrophotometer. However, Jenway Prism PC control software is included as standard, introducing functionality such as greater data storage, additional postmeasurement tools, and preloaded DNA and protein methods.

Bibby Scientific
For info: +44-(0)-1785-812121 | www.bibby-scientific.com

TABLETOP ULTRACENTRIFUGE
The Optima MAX-TL tabletop ultracentrifuge delivers optimum functionality and efficiency within a compact and quiet package. This entry-level instrument offers context-sensitive on-screen help and is available in multiple native languages to meet a full range of separation requirements in a user-friendly environment. Users can set multiple programs of up to five steps each using an easily navigated, full-color LCD touchscreen accessible in nine languages. Fully compatible with Beckman Coulter TL labware and fixed-angle, swinging bucket and unique near-vertical tube (NVT) rotors, the Optima MAX-TL can be used in applications including separation of subcellular particles, viruses and viral particles, rate-zonal separation of proteins in sucrose gradient, separation of lipoproteins, pelleting of RNA through a CsCl gradient, isopycnic separation of plasmid DNA, and others. With a maximum speed of 120,000 rpm and maximum rcf of 657,000 x g, the instruments control speed within ±50 rpm of set point.

Beckman Coulter
For info: 800-742-2345 | www.beckmancoulter.com

Produced by the Science/AAAS Custom Publishing Office

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental 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.