

New Products

Cell Culture Liquid Handling



Product: Automated liquid handling system.

Name & Manufacturer: epMotion 5070 CB from Eppendorf AG.

Technology: Cell culture liquid handling is tedious and time consuming, typically limiting the sample numbers. The epMotion 5070 CB offers hands-free automated pipetting for procedures such as media change, cell seed out and cytotox assays. The system fits into laminar flow hoods from major vendors such as NuAir, Thermo and Baker and, thanks to a new light beam monitor, only operates once the hood's front door is closed. The epMotion 5070 CB can also be used for experiments using hazardous materials inside a fume hood.

Advantages: The epMotion 5070 CB enables automation of pipetting for cell culture without the need for complex and expensive robotic systems. This saves time and affords protection from infectious materials or hazardous liquids. In addition, researchers can move from small sample numbers to 96 or 384-well plates, thereby generating data with greater statistical significance.

More Information: www.eppendorf.com

Kit for Metabolomics



Product: Kit for quantitative metabolomics to be used with standard triple quadrupole mass spectrometers.

Name & Distributer: AbsoluteIDQ Kit from BIOCRATES Life Sciences AG.

Technology: The AbsoluteIDQ kit allows customers to keep their proprietary data in-house. Currently the kit is optimized for Applied Biosys-

tems API 4000 and 4000 Q TRAP LC/MS/MS Systems. The kit version p150 allows to measure and identify more than 150 metabolites in over four compound classes from clinical and pre-clinical plasma samples in a few minutes per sample. The MetIQ software package is an integral part of the kit and provides a solution for the complete analytical process of targeted metabolomics, from project setup to calculation of metabolite concentrations. Future kits will include products with broader metabolite analysis as well as more focused kits for specific disease indications.

Advantages:

- Improved drug design and disease diagnosis by discovering and validating markers of disease, drug efficacy, and toxicology
- Early and accurate monitoring of efficacy and side effects of investigational or approved drugs; this means being able to halt development of non-efficacious drugs quickly
- Reduced costs for targeted metabolomics
- Reduced sample volumes. The small volume needed gives labs the ability to move metabolomics to small-animal models and take multiple time points
- The ability to obtain absolute concentrations of metabolites, not relative concentrations.

More Information: www.biocrates.com

Spectrophotometer



Product: UV/Visible spectrophotometer.

Name & Manufacturer: NanoVue from GE Healthcare

Technology: NanoVue's speed of measurement is due to the system's proprietary "drop-and-measure" hydrophobic sample plate and user-friendly in-built software. NanoVue does not require a computer and the user can select pre-defined methods or create their own directly from the systems in-built display.

NanoVue's sensitivity enables measurements of sample volumes as low as 0.5 μ l. The system

eliminates the use of cuvettes or capillaries, and is easy to clean, reducing the risk of contamination. Users pipette onto the sample plate, with results delivered in under five seconds. Between reads the sample plate can be wiped-clean.

Advantages:

- Up to 90 user-defined methods can be stored with password protection
- Optional built-in printer or output data via USB
- Optional wireless connectivity
- User-friendly calibration - without the need to call a GE engineer
- Small foot-print requiring minimum space.

More Information:

www.gelifesciences.com/tryNanoVue

Bio-luminescence Imaging System



Product: Bio-luminescence microscope

Name & Manufacturer: LV200 Luminoview from Olympus

Technology: The optics of the LV200 are designed to provide the straightest path and shortest distance between the object and the camera, to ensure that as much light as possible reaches the CCD chip. Therefore there are no additional mirrors, filters or lenses to absorb the low levels of light that are emitted through bio-luminescence. Furthermore, the high N.A. of the tube lens affords an increase in sensitivity compared to a conventional microscope. The LV200 optics produce signal outputs many times higher than traditional systems and therefore uses a conventional CCD or EM-CCD camera. In addition, the LV200 has integrated excitation and emission filter wheels to enable dual-colour luminescence and transmission fluorescence. These optical properties also ensure that high magnification objectives can be used, with suitable camera integration times, to provide single cell resolution.

Advantages: Bio-Luminescence imaging has great advantages over fluorescence imaging since it combines a high signal-to-noise (S/N) ratio with no background luminescence or phototoxic effects. Only viable cells emit luminescence signals, and measurements are absolute and directly quantitative.

More Information: www.microscopy.olympus.eu