Ultralow Adhesion Plates
Lipidure-Coat low adhesion plates and dishes are shown in cited research to be one of the most effective tools for state-of-the-art 3-D spheroid cell culture. These new plates and dishes are available in 384-well format optimized for drug screening or other high throughput applications. Spheroid cell culture is based on the spontaneous formation of an aggregation of cells in an environment where the interactions between cells are superior to the interactions between cells and substrate. This can be achieved by using low-adhesion cell culture conditions.
Lipidure-Coat surfaces use MPC (2-methacryloyloxyethyl phosphorylcholine), a biocompatible synthetic polymer with the same structure as the phosphorylcholine polar bases that form cell membranes. As a consequence of the high biocompatibility of this coating, cells will not adhere to the surface of Lipidure-Coat plates or dishes. Different well shapes available for 96-well plates (U, V, and flat-bottom) can be used to control size, position, and density of spheroids.
AMS Biotechnology
For info: +44-(0)-1235-828200
www.amsbio.com/lipidure-coat.aspx

Sample Automation System
The new sample automation system for the minispec mq and mq-one series is a new, easy to use, and cost-effective system that brings sample automation to routine time-domain nuclear magnetic resonance (TD-NMR) applications. Its fast exchange of 10 mm OD sample tubes delivers new levels of maximum throughput and thanks to automated and precise tempering times measurement reliability is improved, significantly boosting productivity of the minispec series.
Complex solid fat content (SFC) analysis, one of the major minispec applications, now benefits from highly accurate sample temperatures, delivering results in strictest accordance with SFC International Standard Methods. The minispec sample automation system is available as a standalone accessory to existing minispec systems from the mq and mq-one Series, or as a packaged system with a new minispec spectrometer. The sample automation setup includes an x-y-z sample changer mounted on a robust platform that holds the minispec system, racks, tempering devices, and balance securely in one place.
Bruker Corporation
For info: +49-721-5161-6500
www.bruker.com/minispec-automation

Modular Chest Freezer Rack
The Modular Freezer Rack provides a flexible and low cost solution for organizing sample storage in a chest freezer. The lightweight modular storage system fits into all chest freezers and is fully compatible with all ANSI/SLAS standard footprint storage racks. To set up the easy-to-use modular system simply click individual rack holders (height: 68 mm) together to construct a tower of up to 15 holders. Each rack holder has the capacity to house a single storage rack (Roborack-96, Comorack-96, Comorack-24, and Arctic Rack-24). When using the Micronic Lobo rack-96 with a low profile cover, one rack holder accommodates two Lobo racks, providing a space saving storage solution. Manufactured from a special durable high grade plastic, Micronic Modular Vertical Freezer Racks are ideally constructed for long-term storage at ultralow temperatures. In addition to offering lower ongoing energy consumption, chest freezers typically tend to have longer life cycles than upright models.
Micronic
For info: +31-320-277070
www.micronic.com

Spectrometer
The new Ultima Expert ICP-OES Spectrometer combines ease of use, a unique plasma torch design, comprehensive tools, highest resolution, lowest detection limits, and full wavelength coverage optics for the most challenging applications. Ultima Expert is designed with a unique plasma torch that offers a radial viewing mode far superior to competitive systems, thanks to the measurement of the entire normal analytical zone. The vertical torch, the original sheath gas device and the wide injector make the Ultima Expert more tolerant to difficult matrices, and offer the benefits of robust operation with minimal maintenance. High resolution and excellent sensitivity allow elements with high, low, and trace concentrations to be measured accurately. Ultima Expert delivers the highest resolution with less than 5 pm for the ultraviolet range and less than 10 pm for the visible range, all due to its unique optical design which integrates a high density holographic grating and one meter focal length optics.
Horiba Scientific
For info: 732-623-8142
www.horiba.com/scientific

DMSO Solutions
Two new reagent solutions expand the volume range measurable with the line of DMSO (dimethyl sulfoxide) products. For use with the MVS Multichannel Verification System and Liquid Handler Performance Verification Service, these reagents enable users to accurately calibrate and verify their liquid handlers when dispensing DMSO-based solutions. DMSO is a solvent widely used for storage and transfer of small-molecule compounds during high-throughput screening campaigns in drug discovery. Because of its unique physical properties DMSO behaves differently than water when handled by air-displacement pipettors and acoustic droplet ejectors. The Artel reagents now cover all volumes less than 10 µL, enabling DMSO solvent-specific volume verification in a real-world setting. The MVS is an easy-to-use, universal system that verifies the volume-transfer performance of automated liquid handling systems and multichannel handheld pipettes. The MVS consists of equipment, software, sample solutions, and highly characterized microtiter plates.
Artel
For info: 888-406-3463
www.artel-usa.com

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