Shaking incubator

LABWIT ZWYR premium shaking incubators deliver precise performance and 24/7 operation for various applications of sample preparations, culture growth, visualisation for gel staining and so on. The units are available in benchtop, horizontal, double-layer and stackable models, offering high performance and application versatility.

With a sophisticated PID microprocessor controller, the temperature and shaking speed are precisely regulated and maintained even when ambient condition varies. The robust driving mechanism and brushless AC motor provide continuous shaking operation and allow the user to shake large, uneven or full loads smoothly. The PID controller provides not only constant control of one fixed temperature and speed, but also programmed controlling with a series of 'ramps and soaks' segments.

With the introduction of a large, intuitive touch-screen interface, the units can help users finish all complicated program settings with their fingertips. The shaking diameter is fully adjustable from 1-50 mm on all benchtop and stackable models, providing flexibility for meeting comprehensive application requirements. The pre-drilled shaking trays allow interchangeability of clamps that hold various sizes of attachments, such as Erlenmeyer flasks, beakers, test-tube racks and microplates.

LABWIT Scientific Pty Ltd
www.labwit.com

Germanium meniscus lenses

Edmund Optics introduces its Techspec Germanium Meniscus Lenses. The lenses feature a durable design that is suitable for use in a wide variety of demanding infrared (IR) applications, including IR imaging or surveillance, remote sensing or IR spectroscopy.

The lenses are manufactured from germanium, which is a rugged, durable material with a broad transmission range and a high index of refraction. Germanium has a transmission range of 2-16 μm and is opaque in the visible part of the spectrum, making it suitable for IR laser applications. The material is inert to air, water, alkalis and all acids, with the exception of nitric acid. With a density of 5.33 g/cm^3 and a Knoop Hardness of 780, it is a suitable material for making rugged, durable IR optics.

The lenses feature a wavelength range of 2-16 μm. They are said to offer good spherical correction and smaller spot size than comparable lenses. They are available uncoated or anti-reflection (AR) coated for increased performance in the designated coating wavelength range. Eighteen different RoHS-compliant lens varieties are offered in 25 or 50 mm diameters and focal lengths from 25 to 100 mm, either uncoated or coated for the 3-5 or 8-12 μm wavelength range.

Edmund Optics Singapore Pte Ltd
www.edmundoptics.com

Rack for ULT freezers

Tenak introduces the Side-Up Rack - a racking option for users who want to optimise the storage capacity of their ULT freezers. Capacity can be increased from 5 up to 13%, depending on the freezer model. The same rack can be used in both upright and chest freezers and comes with a locking rod to secure the cryoboxes.

The purpose of the rack is to fill out the wasted space that is left in freezers while using regular racks. The product will fit into a gap of minimum 37 mm (for 1.5″ boxes) or 57 mm (for 2″ boxes). It is made of stainless steel and comes in three-, four- and five-box configurations. Boxes with a footprint up to 137 x 137 mm can be accommodated. Users can store up to 65 extra cryoboxes in their freezers.

Capella Science
www.capellascience.com.au

Wash bottles

As part of the plastilab range (general-purpose labware), Kartell manufactures a series of polyethylene (PE) wash bottles for cleaning laboratory glassware and other laboratory equipment.

The wash bottles are suitable for use with alcohols, acids, alkalis, aldehydes, esters and ketones, and comply with international standards making them safe for use with foodstuff.

Kartell Wash Bottles, suitable for use with distilled water, are available in capacities ranging from 50 up to 1000 mL. The dispensing tip gives an ultrafine stream or can be removed to increase the flow of liquid.

Integrated Wash Bottles are available in two sizes: 250 and 500 mL. The easy-squeeze bottles are manufactured with an integrated tube and are specially shaped for easy grip and stability.

The dispensing tip can be cut back to increase flow and is fitted with a PE closure cap. The bottles are supplied with standardised screw caps for ease of use.

Wide Mouth Wash Bottles, available in 250 and 500 mL, are designed with a wide mouth for easy, safe filling. The colour-coded caps make it easy to identify each bottle and are designed to avoid dripping caused by pressure build-up in the bottle. They are available in four colours: neutral, blue, yellow and red.

Also available is a range of transparent, adhesive labels.

Sieper & Co Pty Ltd
www.sieper.com.au

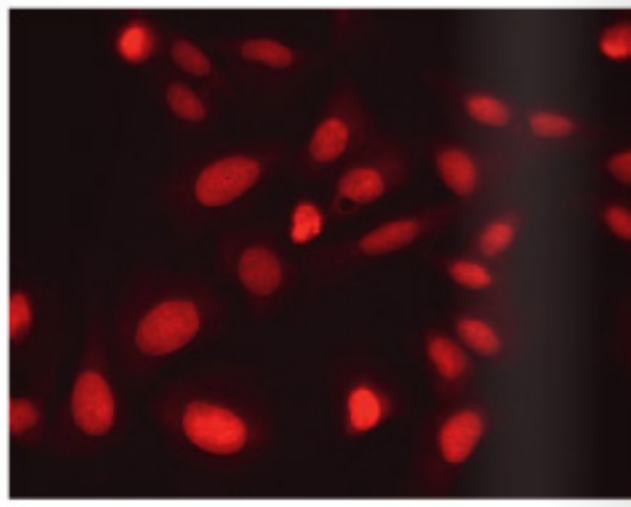
Antibody detection technology

bioCSL has commenced distribution of Immucor's Capture technology platform and reagents in Australia and New Zealand. Capture is antibody detection technology used in the crossmatching of blood used for transfusion.

The technology is said to work differently from the techniques commonly used in Australia, delivering high levels of specificity and potentially reducing both the need for additional testing and delays for patients awaiting a blood transfusion. The product has a high degree of sensitivity for detection of clinically significant antibodies, providing confidence and accuracy in pre-transfusion and prenatal screening.

CSL Biosciences
www.csl.com.au

Cytotoxicity and cell viability assay stain



DRAQ7 is a non-toxic, far-red fluorescent DNA dye that only stains the nuclei in dead and permeabilised cells. The dye does not overlap with PE and homologues, making it a suitable replacement for common dyes such as propidium iodide and 7-AAD in cytotoxicity and cell viability assays.

The product is a highly photostable, pure synthetic compound which can be used in most cell types, including mammalian, bacterial, parasitic, and plant cells and tissues. The versatile dye can be used in a variety of applications including immunofluorescence and immunohistochemistry, high content screening (eg, flow cytometry) and cell-based assays.

The dye is easy to use and does not require washing or RNase. It does not enter intact live cells and is non-toxic in long-term culture. Its far-red fluorescence enables counterstaining or dual staining with other common labels, such as GFP and FITC. Furthermore, the dye provides differential staining of the cytoplasm to permit dual compartment segmentation for translocation tracking and cell morphometrics.

The product's spectral profile is $Ex\lambda_{max}$ 599/644 nm, $Em\lambda_{max}$ 678 nm/694 nm intercalated with dsDNA.

Sapphire Bioscience
www.sapphirebioscience.com