



Laboratory bottles

Duran laboratory bottles are widely used in scientific research for activities such as sampling, storage, mixing and sterilisation of liquids. The Youtility bottle system addresses the critical issues of safe handling and bottle identification through the systematic design of the individual components.

The bottles, with their ergonomic hand grips, are made of highly resistant Duran glass and are available in four sizes: 125, 250, 500 and 1000 mL. The ergonomically shaped screw closure can be safely and comfortably handled by all users, especially those with smaller hands or who are wearing protective laboratory gloves.

The bottle bodies and closure feature dedicated areas for the attachment of self-adhesive identification labels. Bottle tags fit around the bottle neck and allow for the simple colour personalisation of bottles that are used in shared work areas.

Schott Australia Pty Ltd

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Single-channel pipettes

LabGear Australia has introduced the Capp Bravo range of single-channel pipettes. The series is available in variable and fixed volumes and combines lightweight, ergonomic design with innovations in manual pipette design.

The product is constructed from high-quality autoclavable materials and features light plunger and ejection forces in a user-friendly package. The fully autoclavable range is available in volumes from 0.1 μ L up to 10 mL and is backed up by the LabGear Australia technical support team.

LabGear Australia

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Funnels

Robust and lightweight, Kartell Buchner Funnels are designed for ease of use in the Buchner Filtration process.

The Buchner Filtration process uses a Buchner Flask connected to a vacuum pump to improve the filtration process. The cylinder on top is designed to hold extra material and is separated from the funnel by a perforated plate. The advantage of this system is that more material can be filtered, and the process is said to be faster than the traditional method of allowing the solvent to be filtered using the force of gravity.



The funnels feature two-piece polypropylene construction. The base of the top section is perforated to allow solvent to pass through and can be used in conjunction with both the Kartell discs for Buchner Funnels and filter paper to filter the solvent while trapping the original material. With a weave of 250 μ , the optional discs are an extra method of avoiding clogging the filter holes in the funnel.

The polypropylene used in the funnels is heat- and corrosion-resistant, and features good chemical resistance. The top and bottom sections can be separated for easy and total cleaning, and can be sterilised by autoclaving.

The funnels are available in eight sizes: from Art. 437, which has a filter diameter of 42.5 mm and a capacity of 40 mL, up to Art. 445, which has a 240 mm filter diameter and a capacity of 6000 mL.

Sieper & Co Pty Ltd

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Temperature scanner

Fluke Calibration introduces the 1586A Super-DAQ Precision Temperature Scanner. With up to 40 analog input channels and scan rates as fast as 10 channels/s, the product is suitable for applications such as thermal mapping, process sensor calibration, quality control



testing, life cycle testing, process monitoring and environmental testing common in industries including pharmaceutical, biotechnology, food processing, aerospace and automotive.

With the flexibility of both internal and external input modules, the unit is designed for use on the factory floor where channel

count and scan speeds are important and in the calibration laboratory where accuracy and quick input connections are required. The device can measure thermocouples, platinum resistance thermometers (PRTs), thermistors, DC current, DC voltage and resistance. It offers accuracy of $\pm 0.005^{\circ}\text{C}$ for PRTs, 0.5°C for thermocouples and 0.002°C for thermistors.

The product has a colour display with channel indicators that can chart up to four channels simultaneously. It features four modes of operation (scan, monitor, measure and digital multimeter) and alarms that indicate when a channel measurement exceeds an assigned high or low limit. It has 20 MB of onboard memory for storing data and configuration files, a USB port to collect and store files directly to a USB drive and a LAN interface for easy connection to PCs and networks. It also includes a dedicated RS232 interface to control Fluke Calibration drywells or temperature baths for automated tests.

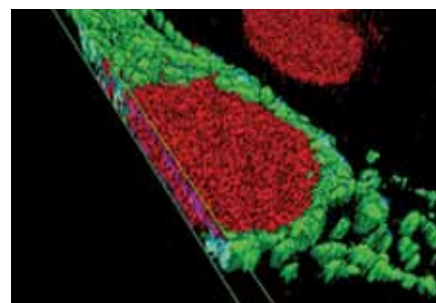
Fluke Australia Pty Ltd

Contact info and more items like this at wf.net.au/V719

Red cell cycle kit for flow cytometry

Enzo Life Sciences' GFP-certified Nuclear-ID Red Cell Cycle Analysis Kit provides a convenient approach for studying the induction and inhibition of cell cycle progression by flow cytometry.

The kit is suitable for: determining the percentage of cells in a given sample that are in G_0/G_1 , S and G_2/M phases, as well as to quantify cells in the sub- G_1 phase; and DNA studies in live, permeabilised and fixed cells for normal cell lines and cell lines exhibiting multiple ploidy levels. A control cell cycle perturbation agent, Nocodazole, is provided for monitoring changes in cell cycle dynamics.



Potential applications for live-cell studies are in the determination of cellular DNA content and cell cycle distribution for the detection of variations in growth patterns, for monitoring apoptosis, and for evaluating tumour cell behaviour and suppressor gene mechanisms.

The kit's bright, photostable red dye yields high sensitivity, plus the highly cell-permeable dye minimises cell density optimisation. Available as a complete kit with controls or as a stand-alone dye, the product is suitable for multiplexing with green fluorophores, including GFP and FITC.

United Bioresearch Products

Contact info and more items like this at wf.net.au/V629

Online qPCR assay design tool

Sigma Life Science offers an enhanced version of its comprehensive online qPCR assay design tool - OligoArchitect. It is a freely available online tool for the automated design of primers and probes for quantitative real-time PCR assays. Powered by the industry-standard Beacon Designer platform from Premier Biosoft, the product supports researchers' easy use of Sigma Life Science's qPCR probes, reagents and oligonucleotide services.

The easy-to-use software is now able to create designs with locked nucleic acid (LNA) for dual-labelled probes, molecular beacons and LightCycler probes. LNA is a DNA base modification that increases thermal stability and hybridisation specificity, which in turn allows for easier and more specific designs for problematic target sequences.

Sigma Aldrich Pty Ltd

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