



Dropometer

Droplet Lab has developed Dropometer, a novel, smartphone-based instrument to measure two of the most important physical properties of surfaces: contact angle and surface tension. Using a smartphone, Droplet Lab has built a measurement device that entirely circumvents the need for

traditional instruments, which are bulky and expensive. Dropometer is cost-efficient, compact, and portable. The system also enables integrated Internet connectivity, allowing for better document management and record-keeping.

Droplet Lab

For info: 647-920-0882
www.dropletlab.com

Cell-Free Protein Expression Kit

AMS Biotechnology introduces ALiCE—a high-yield, cell-free protein expression (CFPE) system. CFPE is now used by protein chemists to quickly produce small amounts of proteins when screening DNA libraries. However, current technologies are limited, and there is a need for higher protein expression yields. ALiCE is a unique eukaryotic system, which delivers an unprecedented 3 mg/mL of protein in batch mode. Even prokaryotic systems, which generally can only handle easy-to-express proteins, attain at best 1 mg/mL protein in batch mode. The higher-production efficiencies achieved by ALiCE enable biopharmaceutical researchers to detect a significantly higher number of candidates from each DNA library screened, eventually leading to a higher number of viable candidates for development. ALiCE also offers the option to generate larger quantities of proteins.

AMS Biotechnology

For info: 617-945-5033
www.amsbio.com/high-yield-cell-free-protein-expression.aspx

Microplate Sealing System

Set up to quickly and securely seal 96-well, deep-well microplates as standard, the Autocapper from Porvair Sciences is compatible with shallow-well and several other plate formats (24-well, 48-well), using a range of supplied adapter blocks. Designed to meet the needs of laboratories for low- to medium-throughput microplate sealing, the Autocapper is compact and easy to use. With just a touch of a button, the powerful, yet smooth operating mechanism makes single-action sealing of microplates quick and effortless, thus removing any risk of repetitive strain injury. In addition to the Autocapper, Porvair Sciences offers a range of units optimized to meet the needs of low-, medium-, and high-throughput laboratories tasked with microplate sealing.

Porvair Sciences

For info: 800-552-3696
www.porvair-sciences.com/microplate-closures-and-sealing

532-nm Raman Accessories

Princeton Instruments offers 532-nm Raman accessories, including f-matched Focusing CUBES as well as Raman CUBES with fully aligned Raman notches and clean-up filters, for its popular and easy-to-use FERGIE spectrometer product line. The system's unique optical design and innovative, modular CUBE accessories enable users to perform high-precision Raman, fluorescence, absorption, and transmittance/reflectance measurements with ease. Raman measurements at 532 nm offer better sensitivity with a higher Raman cross-section compared to Raman measurements at 785 nm or longer wavelengths. The 532-nm excitation wavelength also delivers higher spatial resolution for Raman microscopy measurements, making it ideal for carbon materials (e.g., graphene and carbon nanotubes) and other thin-film material characterization. In contrast, the 785-nm excitation wavelength is preferred for organic and biological samples that have fluorescence background.

Princeton Instruments

For info: 609-587-9797
www.fergiespec.com

Research-Grade Light-Scattering Goniometer

The BI-200SM Research Goniometer System from Testa Analytical Solutions is designed for exacting static light scattering (SLS) and dynamic light scattering (DLS) measurements. Based on a special turntable with precision ball bearings and stepping motor, the system's modern design and quality construction guarantee precise measurements due to the wobble-free movement of the detector. The BI-200SM is ideal for macromolecular studies and submicron particle sizing. Featuring a standard optical rail, it can be used with neutral density filters, a polarizer, an analyzer, and a reference detector. Special sample requirements can often be met by changing the cell-holder design or size. By adding an optical signal splitter to the beam of scattered light and a second detector, it is possible to eliminate the traditional effects of very high-speed interference from light-scattering detectors. The BI-200SM can measure light scattering over a wide angular range (8° to 155° with 25-mm cells) and offers fine adjustment of measurement angles to 0.01° directly, using a large, fine-control knob. Fine-screw vertical adjustment makes center-of-rotation measurement easier when aligning cells. Precise repeatable data is ensured by automated heating and cooling of the sample cell, using a standard external recirculating system. The advanced BI-200SM Particle Explorer software suite enables fast and easy data collection and analysis.

Testa Analytical Solutions

For info: +49-30-864-24076
www.testa-analytical.com/datasheets/bi-200sm.pdf

Environmental Monitoring Media

The BD BBLTM sterile Isolator Cleanroom eXtended Temperature (IC-XT) plated media for environmental monitoring provides dependable and reliable outcomes for testing in critical environments. The BD BBLTM IC-XT sterile-plated media features an extended temperature range, enabling storage in a flexible environment between 2°C–25°C, and has a shelf life of up to 6 months. In addition, the media has a sterility assurance level claim of 10⁻⁶, and features the BD RODAC Snap Lid plates to further protect sample integrity.

BD

For info: 201-847-6800
www.bd.com/en-us

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