



Broad-Range RNA Quantitation Kits

AccuBlue boasts the widest linear range (5 ng–1000 ng RNA) of available RNA quantitation kits, while providing exceptional accuracy, sensitivity, and high RNA selectivity. The kit is compatible with fluorescent microplate readers, Qubit fluorometers, or other small fluorometers, and is ideal for ap-

plications like next-generation sequencing and real-time PCR. Unlike absorbance-based measurements, the RNA dye is highly selective for RNA over double-stranded DNA (dsDNA) and can tolerate an equimolar amount of dsDNA without any significant effects on RNA quantitation. A mammalian RNA standard is included for accurate quantitation of mammalian cell RNA.

Biotium

For info: 800-304-5357
www.biotium.com

Wheat Exome Panel

The new myBaits Expert Wheat Exome panel was developed in collaboration with the International Wheat Genome Sequencing Consortium (IWGSC) using the most up-to-date and comprehensive genome-wide annotations for the Chinese spring wheat cultivar. The panel enriches the complete set of high-confidence exon annotations in hexaploid wheat, retrieving over 250 megabase pairs of the greater-than-15-gigabase-pair *Triticum aestivum* genome. This kit saves the exome-focused researcher orders of magnitude in sequencing and analysis costs when compared to whole-genome sequencing, and pairs seamlessly with virtually all library preparation chemistries and sequencing platforms. The Wheat Exome v1 panel is provided as a complete in-solution target capture kit, including buffers, blockers, and baits, along with an easy-to-use protocol.

Arbor Biosciences

For info: 734-998-0751
arborbiosci.com/products/mybaits-expert-wheat-exome-panel

Automated Cell Counter

CellDrop incorporates DeNovix' patented DirectPipette Technology, removing the need for expensive, environmentally damaging plastic slides. CellDrop brings the simple load, measure, and wipe-clean functionality of nanovolume spectrophotometers to cell counting. The unique, variable-volume counting chamber can be automatically adjusted to the optimum height for each sample, delivering greater accuracy and allowing measurements across the widest range of cell densities (7×10^5 and 4×10^7 cells) without the need for dilution or concentration. Combining dual fluorescence and brightfield optics with powerful onboard EasyApps software enables a range of cell counting, viability, and transfection efficiency assays. Instruments come preinstalled with apps for acridine orange/propidium iodide (AO/PI), brightfield, trypan blue, and green fluorescent protein, and allow the user to easily customize methods. CellDrop is a stand-alone instrument, with high-definition, 7-in. touchscreen ideal for reviewing live images, data, and reports. All instruments contain Wi-Fi, USB, and Ethernet connectivity, allowing users to easily export data via email, network drives, network printers, or USB drive. CellDrop is available in dual fluorescence and brightfield or brightfield-only models.

DeNovix

For info: 302-442-6911
www.denovix.com

Exosome Isolation and Detection Kits

AMS Biotechnology introduces exosome isolation and detection kits designed for investigating targeted cancer therapy. Exosomes expressing specific surface markers (e.g., CD81, CD63, and CD9) have been found to play roles in cancer progression and tumorigenesis as transporters of microRNA. As a delivery system, they can therefore potentially be used as a specific carrier of immunotherapy/chemotherapy and cancer vaccines, as is shown by the growing number of biotech companies developing exosome-based therapies. Our new column-based exosome isolation kit works to isolate intact exosomes from both serum and cell-conditioned media. Exosome detection ELISA kits quantify exosome levels in the fractions as well as in samples such as culture media and sera. In addition, we also provide monoclonal antibodies against common exosome markers and immune checkpoint ligands for immunostaining, ELISA, or flow cytometry.

AMS Biotechnology

For info: 617-945-5033
www.amsbio.com/exosomes.aspx

25-mL Conical Tubes

Eppendorf has developed the Eppendorf Conical Tube 25 mL—available with either the new, patented SnapTec cap or with a screw cap. These conical tubes have the same diameter as conventional 50-mL conical tubes but a ~20% lower height. This allows space-saving storage, for example in freezers. The wide opening, combined with the lower height, offers easy sample access. Premium raw materials, manufactured without the use of plasticizers and biocides, ensure the highest sample integrity and optimal sample and pellet visibility. The most innovative feature is the SnapTec cap, which is firmly connected to the tube. No need to put the cap on the bench, running the risk that caps from different tubes may become mixed up or contaminated. The cap allows single-handed opening and closing for quick liquid extraction or addition of sample. This feature is particularly advantageous in multistep lab protocols.

Eppendorf

For info: 800-645-3050
www.eppendorf.com/25mL

Microfluidic 3D Cell Culture Plate

The OrganoPlate is a microfluidic 3D cell culture plate, supporting up to 96 tissue models on a single plate. Our PhaseGuide technology enables precise, barrier-free definition of culture matrices and cells in 3D, supporting cell–cell interactions and unprecedented imaging and quantification. Continuous perfusion of media through the microfluidic networks in the OrganoPlate mimics blood flow and allows exchange of nutrients, oxygen, and metabolites. Our unique, gravity-driven leveling technology maintains flow without the use of pumps and tubing, making this culture plate suitable for any throughput. The Perfusion Rocker Mini provides continuous medium flow, with minimal settings required. The PhaseGuide platform is arguably the most cost-effective microfluidic liquid-handling platform available. Being a passive technology, it requires no moving parts, and plate functionality is fully programmed by its geometry. The OrganoPlate is versatile, supporting chemical gradients of chemical compounds, proteins, and coculture conditions, and makes organ-on-a-chip technology affordable and available to nonspecialized end-users.

Mimetas

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mimetas.com/page/technology

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