



Reactor Flask Heating System

The DrySyn UNO Base from Asynt is a versatile, entry-level reactor flask heating system with a heat-resistant handle, making it the perfect apparatus for conducting safe experiments in academic teaching and research labs.

It provides a simple but effective tool for safe heating and clamping of a single flask or vial, with DrySyn Reaction Vial inserts. The DrySyn UNO Base has a flat bottom with removable/repositionable feet, allowing it to be used with any standard magnetic hotplate stirrer. Additionally, the robust, solid anodized aluminum construction of the DrySyn range offers excellent performance without the need for messy and potentially hazardous oil baths.

Asynt

For info: +44-(0)-1638-781709

www.asynt.com/product/drysyn-uno-base

Automation of Isoelectric Point Measurement

Automation of isoelectric point measurement can be achieved using a BI-ZTU autotitrator in combination with a NanoBrook zeta potential analyzer, both from Testa Analytical Solutions. The stability of a dispersion is commonly determined by zeta potential. By studying the isoelectric point, scientists can evaluate how pH affects zeta potential and therefore can ascertain at which pH the zeta potential is zero. The BI-ZTU autotitrator option for NanoBrook zeta potential analyzers is ideal for automatic determination of the isoelectric point of colloids, for detection of the onset of aggregation as a function of pH, and for measuring the effect of salt concentration (ionic strength) on zeta potential. Using this setup allows you to determine zeta potential at a particular pH, then automatically repeat the measurement for the next pH in the series. By minimizing manual labor requirements and using the BI-ZTU in combination with the NanoBrook zeta potential analyzer, the cost of isoelectric point determination is drastically reduced.

Testa Analytical Solutions

For info: +49-30-864-24076

www.brookhaveninstruments.com/bi-ztu-autotitrator

Ellipsoidal Mirrors for X-Ray Diffraction

Optical Surfaces produces ultrasMOOTH ellipsoidal mirrors able to deliver an X-ray diffraction (XRD) spot that exactly matches your spectrometer detector resolution. Consequently, the resolution and angular range of XRD measurements can simultaneously be improved. In addition, the pinpoint focusing provided by the mirrors increases X-ray flux density, resulting in better contrast. With workshops and test facilities deep underground, where temperatures remain constant and vibration is practically nonexistent, we manufacture ellipsoidal mirrors in a range of materials (Zerodur, BK7, fused silica) with typical surface accuracy of better than $\lambda/10$ (dependent on size and radius) and surface quality of 20:10 scratch dig. The mirrors also come in a variety of shapes (largest dimension up to 400 mm), offering high performance and durable optical coatings that provide excellent image quality.

Optical Surfaces

For info: +44-(0)-208-668-6126

www.optisurf.com/index.php/products/conic-sections/ellipsoids

Microplates

Porvair Sciences' unique Krystal 2000 microplate range sets a new standard for luminescence and fluorescence assays. Incorporating individual clear cups molded into either a black or white polypropylene matrix, via a patented "two-shot" manufacturing process, eliminates the well-to-well optical crosstalk inherent in other clear-bottomed microplate designs. As a result, Krystal 2000 plates enable you to achieve unmatched accuracy, repeatability, and sensitivity in your assay readings. Designed to the standard ANSI/SLAS format, each 96-well Krystal 2000 microplate is fully compatible with all commercially available plate readers, robotic sample processors, and automated liquid-handling systems. In addition, the Krystal 2000 design offers improved cell-binding efficiency and allows the convenience of direct measurements on bottom-reading spectrophotometers and inverted microscopes. All tissue-culture treated Krystal 2000 plates are supplied lidded and sterile, in individual bags.

Porvair Sciences

For info: 800-552-3696

www.porvair-sciences.com/resources/porvair-assay-plates-brochure

Myeloid DNA Reference Standard

The Myeloid DNA Reference Standard from Horizon Discovery Group is a large, cell line-derived myeloid cancer reference standard designed to enable faster, more reliable, and more cost-effective assay validation, and to support the market in bringing routine testing into practice. It has been developed using Horizon's specialist gene-editing technology, to deliver a cell line-derived reference standard containing 22 mutations across 19 genes commonly associated with myeloid cancer. This standard provides genetic testing laboratories and assay developers with a tool to effectively validate and optimize myeloid genetic tests with DNA of known genotype that closely mimics the genomic DNA format and mutations present in real patient samples. The Myeloid DNA Reference Standard contains variants in more genes than most clinical material, enabling quality assurance goals to be reached faster.

Horizon Discovery Group

For info: 844-655-7800

www.horizondiscovery.com

Cell Lysis Buffers

Chromatrap buffer reagents for lysing cells have been formulated to act rapidly, gently, and efficiently, ensuring reproducible results with high-quality chromatin yields from various sample types. With chromatin being at the heart of chromatin immunoprecipitation (ChIP), its extraction and purification is a vital starting point for epigenetics research. Chromatrap Hypotonic Buffer has been proven to effectively disrupt cell membranes through swelling of the cells. Chromatrap Lysis Buffers are formulated to guarantee that the nuclear membrane is disrupted, releasing a high yield of nuclear material for your research. Chromatrap Lysis Buffer for Enzymatic Shearing provides users with a complete lysis buffer for the disruption of nuclear cell membranes, containing a milder detergent than that required for mechanical fragmentation. Alternatively, the Chromatrap Lysis Buffer for Sonication offers nuclear lysis and mechanical shearing for a wide range of organisms, and is ideal for difficult-to-lyse cell types and tissues. With the results of a ChIP assay being highly dependent on the quality of chromatin prepared, using Chromatrap buffer reagents to isolate chromatin from your sample can play an important role in the success of your research.

Chromatrap

For info: +44-(0)-1978-666222

www.chromatrap.com/reagents-and-buffers-1

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/about/new-products-section for more information.

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