

New Products

Luminescence Assays



Product: DLReady certification for microplate readers.

Name & Manufacturer: Omega series from BMG LABTECH.

Technology: The DLReady certification, awarded by Promega, validates an instrument that has passed the performance levels and standards required for the Dual-Luciferase Reporter (DLR) assay system. DLR is a commonly used luminescence assay for measuring gene transcription in a microplate format. Using firefly and Renilla luciferases as reporter genes, the DLR Assay System rapidly quantifies gene expression in transfected cells or in cell-free transcription/translation reactions.

Advantages: BMG LABTECH's FLUOstar Omega, POLARstar Omega, and LUMIstar Omega have been DLReady certified. The Omega is the world's only DLReady multidetection microplate reader that can capture a full absorbance spectrum (220 to 850 nm) at a resolution of 1 nm. Read times faster than 1 second per well are possible.

More Information on performing the DLR assay on the FLUOstar Omega, POLARstar Omega, or LUMIstar Omega can be downloaded at: www.bmglabtech.com/application-notes/luminescence/dlr.cfm.

Tyrosine Kinase Assay



Product: Kinase assay platform with BioForm Technology.

Manufacturer & Distribution: P.A. Technologies and Millipore.

Technology: Conventional analysis of membrane protein signaling involves studying a single protein interacting with a single partner. Such analysis loses two-dimensional informa-

tion afforded by organization of proteins on the membrane surface. BioForm Technology enables the assembly of histidine-tagged proteins in an environment that mimics that created by a cell membrane. This template restores the organizing features of the membrane without the difficulties of membrane preparation and reconstruction procedures. The technology is adaptable to high throughput assay format and is applicable to many signaling systems.

Advantages: Millipore's Tyrosine Kinases combined with BioForm Technology can be used in key stages of drug discovery research, including early stage drug screening, signal transduction and regulation of enzymatic activity. Additionally, this kinase assay platform may be used for functional in vitro assembly of multiple protein targets.

More Information: www.millipore.com

Microbalance



Product: Microbalance for the calibration of micropipettes.

Name & Manufacturer: XP26PC from METTLER TOLEDO.

Technology: The XP26PC is based on the Excellence plus XP26 microbalance and has a number of features that bring efficiency to your workflow, including an integrated light barrier for hands-free operation that activates the evaporation trap door whenever a pipette passes through. The trap's new design reduces evaporation to a minimum, improving the weighing stability, calibration time and usability of the device. An integrated pipetting container with a 10 ml capacity reduces the frequency of process interruptions for emptying the container. The XP26PC also includes a calibration kit for regular testing of the balance, with a 1 g OIML-certified weight, a weighing pan and a pair of tweezers. The pipette

calibration software Calibry comes with a wizard for defining the pipettes, selecting the appropriate methods and providing a step-by-step guide throughout the calibration process. Reports are produced and every single operation is recorded, providing full traceability that meets 21 CFR Part 11 requirements. The Calibry software can be validated, and both a validation manual and validation service are available.

Advantages: The XP26PC liquid handling calibration device from METTLER TOLEDO is the fastest and most user-friendly system available for calibrating single channel micropipettes. In just a few seconds it can calibrate dispensed volumes as low as 1 μ l, complying with the ISO 8655 standard, and bringing easy and accurate calibration to every laboratory.

More Information: www.mt.com/picali.

Protein purification



Product: Protein enrichment technology for the facilitation of medium and low abundance proteins.

Name & Manufacturer: ProteoMiner from Bio-Rad.

Technology: The technology concentrates low abundance proteins and decreases the concentration of high abundance proteins using a library of hexapeptides bound to chromatographic supports. The diverse hexapeptide library enables a potential ligand for every protein in the biological sample and is not limited to a small subset of known proteins like other depletion technologies. In addition to the enrichment of low abundance proteins, the high abundance protein concentration is reduced rather than completely eliminated, hence proteins associated with the high abundance proteins are not lost. The ProteoMiner is compatible with a number of downstream techniques such as 1D and 2D electrophoresis, ProteinChip SELDI and other mass spectrometry techniques. The technology is available as a spin column in a number of formats.

Advantages: The ProteoMiner technology facilitates the detection of medium and low abundance proteins in complex biological samples in a reproducible and quantitative process.

More Information: www.discover.bio-rad.com