

WORKFLOW · NEW INNOVATIONS

DETECTION AND ANALYSIS

Measure and analyze at the highest level!

Instruments, reagents and kits for everything from sample preparation to cell and molecular analysis.

WORKFLOW STEPS

1	Sample preparation, concentration measurement	Microvolume photometer Nanodrop	Reagents: antibodies, growth factors, cytokines, assay kits, markers Beckman Coulter, Abcam, Qkine, Reddot, Promega
2	Plate-based measurements	ELISA and multimode readers Molecular Devices, Promega	ELISA kits Abcam, Reddot
3	Cell analysis	Flow cytometers (conventional and spectral), cell sorters, cell counters, AUC centrifuge Beckman Coulter, Axion Electrophysiology, MEA Axion, Molecular Devices	AI-based imaging systems and automated cell culture system Molecular Devices, Axion, Zeiss
4	Molecular analysis	Capillary electrophoresis SCIEX NGS panels IDT	qPCR probes, assays IDT

FEATURED INSTRUMENTS



OMNI AUTOMATED LIVE-CELL MONITORING SYSTEM



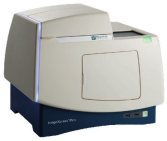
SPECTRAMAX MINIMAX 300 IMAGING CYTOMETER



BECKMAN OPTIMA AUC ULTRACENTRIFUGE



CELLXPRESS.AI AUTOMATED 2D/3D CELL CULTURE SYSTEM



IMAGEXPRESS PICO AUTOMATED CELL IMAGING SYSTEM



MAESTRO PRO MULTIWELL MICROELECTRODE ARRAY (MEA)

MANUFACTURERS AND PRODUCT FAMILIES

MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Zeiss	Primo-, Axio-, Stemi-	Everything in classic microscopy! The full range of upright, inverted and stereo microscopes.

BIO-SCIENCE
A magyar tudomány szolgálatában.

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MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Nanodrop	Ultra, Lite Plus, Eight	Label-free concentration measurement in microdrop (and cuvette) format across the 190-850 nm wavelength range for purified DNA, RNA, proteins and other materials measurable by absorbance.
Sciex Separations	BioPhase 8800, PA800 Plus, MDQ Plus, CESI	Capillary electrophoresis systems for the separation and analysis of proteins and nucleic acids – including with MS coupling.
Abcam, Qkine	Antibodies, ELISA, assay kits, cytokines, growth factors, antibody conjugation kits	Flow cytometry, immunohistochemistry, immunoprecipitation, primary and secondary antibodies, ELISA kits, enzyme activity, viability and cytotoxicity kits. Cytokines and growth factors for cell culture. Cell lines. Lightning-Link® and others (e.g., gold nanoparticle and metal conjugation kits).
Reddot	Antibodies, assay kits, ELISA kits	Primary and secondary antibodies for labeling, assay kits. Conventional and ready-to-use ELISA, cell cycle and metabolism kits.
Promega	Reporter assays, cell-based analysis, protein analysis, isolation kits, enzymes, cloning, drug development	Kits and reagents for testing cell viability. Bioluminescent and fluorescent assays, Luciferase assays, ATP, cAMP, GenePrint, Go-Taq polymerase, Maxwell kits, etc.
Molecular Devices	ImageXpress, SpectraMax Multimode Readers, ClonePix, Qpix, CloneSelect, CellXpress.ai	Automated fluorescence and confocal imaging systems, AI-based analysis software. Multimode readers: iD3 and iD5. Labeling kits and reagents for live-cell studies. AI-based 2D/3D cell culture automation. Systems for colony picking and isolation.
Beckman Coulter	CytoFLEX, CytoFLEX mosaic, CytoFLEX nano, CytoFLEX SRT, Vi-CELL BLU, Optima AUC	Flow cytometers (conventional and spectral), sorters, centrifuges, cell counters. Wide range of reagents and kits. Analytical ultracentrifuge: protein analysis in true native state. Spectral module for CytoFLEX S and LX instruments.
Axion	MEA – Maestro Pro, Lux, Omni, Exact FL	Microplate-based MEA (Multi-Electrode Array) electrophysiology instruments for studying cell-cell interactions, and live-cell monitoring microscopes.
IDT	PrimeTime, xGen	qPCR probes and assays with fluorophore/quencher combinations, NGS reagents.

FURTHER WORKFLOWS

3D Cell Culture | Integrated automated platforms | EV Research, Nanoparticles | Molecular Biology | Liquid Handling Automation Systems and Robots | Cell-based workflows

REQUESTS FOR QUOTATION, QUESTIONS

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This workflow online, with product and manufacturer links: www.bio-science.hu/en/lab-workflows/detection-and-analysis

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