

WORKFLOW · NEW INNOVATIONS

EV RESEARCH, NANOPARTICLES

Characterization of Nanoparticles (NP) and Extracellular Vesicles (EV)

Manual and automated instruments and reagents for the isolation, detection and verification of proteins, EVs and NPs

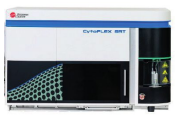
WORKFLOW STEPS

1	Isolation, Synthesis	Cells, iPSCs and Antibodies Abcam, Axol Bioscience	Cell Sorters, Ultracentrifuges (UC) and Reagents Beckman Coulter CytoFlex SRT sorter, Optima UC ultracentrifuge
2	Protein Purification	Concentration Measurement Nanodrop Ultra spectrophotometer	Antibodies, Reagents and Kits Promega, Abcam, Qkine
3	Treatment, Modification, Interaction Studies	Flow Cytometry Studies, Modification or Detection of EVs and Proteins Beckman Coulter	Exosomes panel Abcam
4	Analytics	Particle Size Analysis Beckman Coulter Analytical Ultracentrifuge Beckman Coulter Multimode Readers and AI-Based Automated Microscopes Molecular Devices, Promega	ELISA Kits Abcam, Reddot Flow Cytometry Studies, Automated Characterization of Stem Cells, EVs and Proteins Beckman Coulter CytoFlex product family
5	Automation	Automated Liquid Handlers, Robots Beckman Coulter, Opentrons	

FEATURED INSTRUMENTS



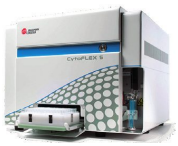
CYTOFLEX SRT CELL SORTER



OPENTRONS FLEX ROBOT



CYTOFLEX S FLOW CYTOMETER AND SPECTRAL MODULE



CYTOFLEX NANO FLOW CYTOMETER



OPTIMA ANALYTICAL ULTRACENTRIFUGE



NANODROP

BIO-SCIENCE
A magyar tudomány szolgálatában.

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MANUFACTURERS AND PRODUCT FAMILIES

MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Molecular Devices	ImageXpress Pico, Nano, Micro4, Confocal, SpectraMax, ClonePix, Clone Select, Automated 3D System-CellXpress.ai, AI IN-Carta SW	Fluorescent and confocal imaging systems, AI-based analysis software. Multimode readers. Organoid "replication" service. Labeling kits and reagents for live cell analysis. Systems for colony selection and isolation.
Opentrons	Flex, OT-2	New-generation, closed, HEPA-filtered automated liquid handling robots for sterile work. Sample preparation, protein purification, NGS, PCR, nucleic acid isolation, for every step of the 3D workflow.
Beckman Coulter	CytoFLEX, SRT, NANO, CytoFLEX mosaic Spectral Detection Module	Flow cytometers, sorters, centrifuges, cell counters. Reagents, kits. Spectral module for CytoFLEX S and LX instruments.
Abcam, Qkine		Primary and secondary antibodies for labeling, assay kits, reagents. For cell culture: cytokines, growth factors and fluorescently conjugated antibodies, labeling kits, ELISA kits. Wide selection of cells.
Axol Bioscience		iPSC-derived cells from human donors of various age groups, media and kits for in vitro human disease models.
Promega		3D kits and reagents for testing cell viability (CellTox™ Green Cytotoxicity Assay, CellTiter-Glo® 3D Luminescent Cell Viability Assay, RealTime-Glo™ Annexin V Apoptosis and Necrosis Assay etc.). Assays: cell metabolism, cell expression and genome analysis or inflammation.
Nanodrop	Ultra, Lite Plus, Eight	Microvolume (and cuvette-based) label-free concentration measurement in the wavelength range of 190–850 nm for purified DNA, RNA, proteins and other substances measurable by absorbance.
Reddot	Antibodies, assay kits, ELISA kits	Primary and secondary antibodies for labeling, assay kits. Traditional and ready-to-use ELISA, cell cycle and metabolism kits.

FURTHER WORKFLOWS

3D Cell Culture | Integrated automated platforms | Detection and Analysis | 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/ev-research-nanoparticles

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