

WORKFLOW · NEW INNOVATIONS

MOLECULAR BIOLOGY

Nucleic Acid Extraction and PCR/RT-qPCR

Innovative solutions from extraction through amplification to sequencing. New GoTaq Endure probe-based qPCR and RT-qPCR – with high inhibitor tolerance

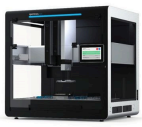
WORKFLOW STEPS

1	Extraction, sample preparation	Isolation kits Promega - gDNA, RNA, TNA, Plasmid, PCR clean-up	Automated isolation Opentrons – OT-2, Flex; Beckman Coulter – Biomek i series; Promega – Maxwell RSC; Maxwell HT kits
		Quality plastic consumables	
2	Quantification	Nucleic acid quantification Promega – Quantus; NanoDrop	
3	Amplification	Taq polymerases, master mixes Promega - GoTaq	qPCR kits (dye- or probe-based) Promega - qPCR, RT-qPCR (one step) GoTaq Enviro and Endure – qPCR kits with high inhibitor tolerance
		PrimeTime qPCR assays IDT	
4	Detection	Sequencer Promega – Spectrum Compact CE	

FEATURED INSTRUMENTS



MAXWELL RSC



OPENTRONS FLEX ROBOT



NANODROP ULTRA



SPECTRUM COMPACT CE

MANUFACTURERS AND PRODUCT FAMILIES

MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Promega	Wizard, ReliaPrep, PureYield GoScript, GoTaq Maxwell RSC/CSC, Maxwell HT, Quantus Spectrum Compact CE	Nucleic acid isolation kits (Wizard), plasmid isolation kits (PureYield), PCR clean-up, GoScript reverse transcriptase, GoTaq polymerases, qPCR and RT-qPCR kits, nucleic acid isolation automation, Maxwell kits and HT kits, Quantus fluorometer for nucleic acid quantitation, Spectrum Compact CE sequencer

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MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Opentrons	Flex, OT-2 pipetting robots	New-generation robots, solutions for automated protein purification using magnetic beads (Flex) or so-called dual flow chromatography (OT-2) methods, for extracting proteins, protein complexes and antibodies; also with HEPA-filtered air.
Beckman Coulter	Biomek i series	Pipetting robots (i5, i7) for high-throughput, highly flexible molecular biology applications.
NanoDrop	Ultra, Lite Plus, Eight	Microdrop (and cuvette) label-free concentration measurement in the 190–850 nm wavelength range for purified DNA, RNA, proteins and other substances measurable by absorbance.
IDT	PrimeTime, Custom oligos, gBlocks	Fluorophore/quencher-labeled qPCR probes and assays, oligos, qPCR positive control

FURTHER WORKFLOWS

3D Cell Culture | Integrated automated platforms | Detection and Analysis | EV Research, Nanoparticles | 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/molecular-biology

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