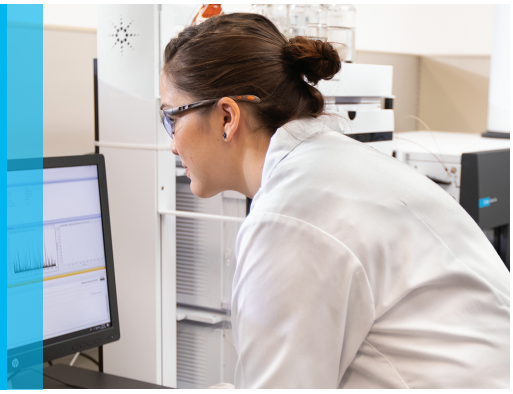
Agilent
Trusted Answers

Agilent BenchCel Microplate Handler

Automate your microplate assay workflows

BenchCel Microplate Handler



The Agilent BenchCel microplate handler is a compact, automated system that can be integrated with BioTek plate washers, dispensers, plate readers and imagers, enabling automated workflows for a variety of applications. The high-speed robot has capacities to meet a broad range of throughput requirements, and its modular design provides the flexibility and scalability required to accommodate many diverse laboratory applications.

Open, flexible platform automates a variety of workflows

BenchCel fully automates workflows between several Agilent BioTek liquid handling, detection and imaging instruments, including:

- Agilent BioTek MultiFlo FX multimode dispenser
- Agilent BioTek EL406 washer dispenser
- Agilent BioTek Synergy Neo2 hybrid multimode reader
- Agilent BioTek Cytation 5 cell imaging multimode reader
- Agilent BioTek Epoch 2 microplate spectrophotometer

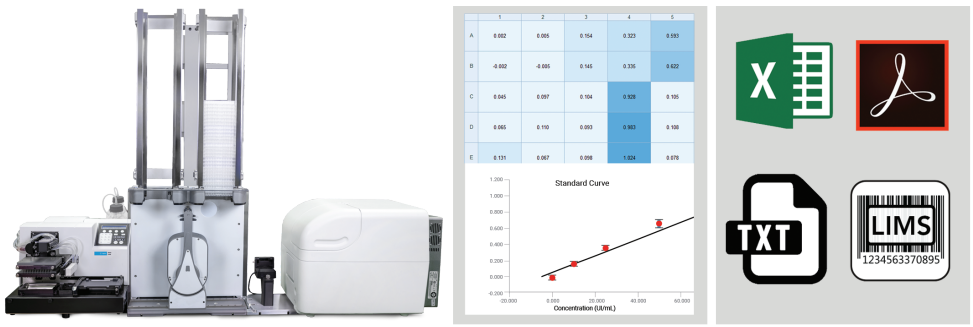
Scalable configuration allows integration of multiple instruments into a single benchtop system

ELISA workflow automation

Set up and process

Analyze

Export



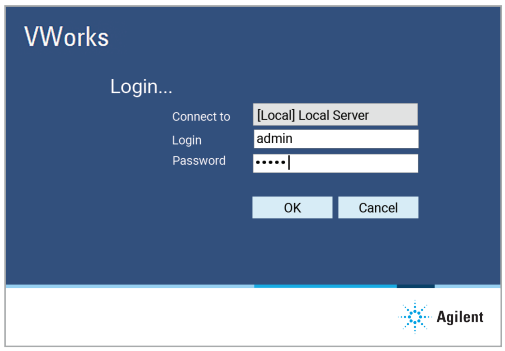
The BenchCel microplate handler with an EL406 and Synergy Neo2 can batch process several ELISA plates. Automated plate washing, reagent addition, and absorbance measurements facilitate the process to get results quickly.

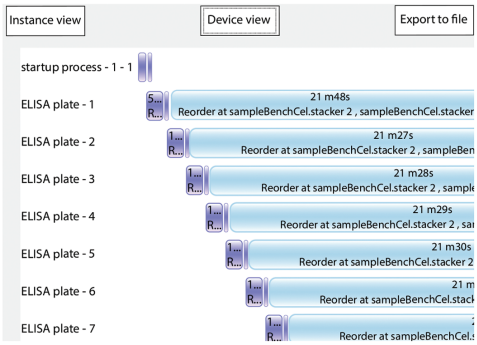
Several stack sizes: variety of vessels

BenchCel's convenient front-loading stacks can be used in a wide variety of environments: benchtop, hood, biosafety cabinet. They accommodate a variety of microplate types including deep well plates.

Powered by the Agilent VWorks software

Flexible scheduling software

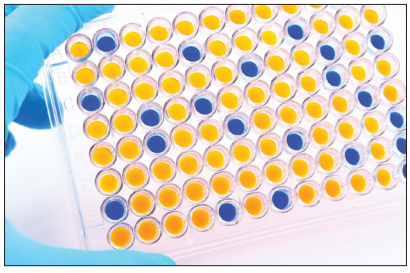




Agilent VWorks software offers an intuitive graphical interface and dynamic scheduling capabilities. Users can create and run protocols and forms, and monitor progress of their workflows from VWorks.

Applications

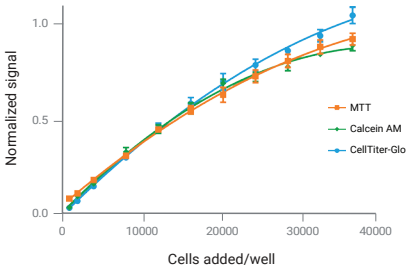
Automated ELISA workflows



A typical automated ELISA workstation includes the BenchCel plate handler, the BioTek EL406 washer dispenser and Synergy Neo2 multimode reader. An automated ELISA workstation is versatile, accommodating many application workflows.

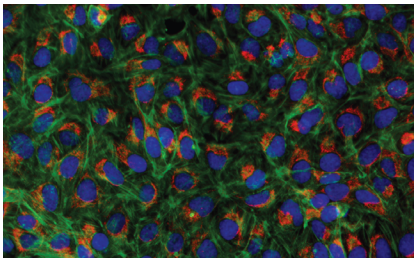
Applications (cont.)

Automated add and read assays



With the BioTek MultiFlo FX multimode dispenser and Synergy Neo2 hybrid multimode reader, the BenchCel system can meet a range of throughput requirements in applications using fluorescence, absorbance, and luminescence.

Automated cell fixation, staining and imaging

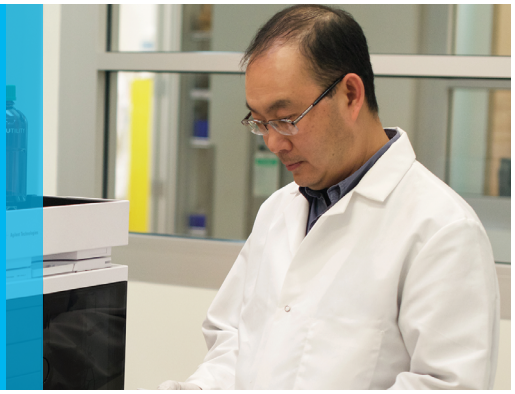


For automated cell fixing, staining and imaging protocols, the BenchCel is integrated with MultiFlo FX and Cytation 5. This setup is versatile to meet a range of throughput requirements.


Agilent
BioTek
EL406
STOP
START

Agilent BenchCel Microplate Handler

Technical Details



General	
Microplate types	ANSI/SLAS standard microplates, deep well plates
Throughput	BenchCel is available in two-stack or four-stack versions for a range of throughput requirements
Stack height/capacity (14 mm plates)	660 mm (26”)/47 250 mm (10”)/17 860 mm (34”)/61
Stack type	Front-loading; when opened, rack accepts stack of plates for efficiency and convenience
Instrument compatibility	Synergy Neo2 hybrid multimode reader, Cytation 5 cell imaging multimode reader, Epoch 2 microplate spectrophotometer, EL406 washer dispenser, MultiFlo FX multimode dispenser
Software	Agilent VWorks, integrated with Agilent BioTek Gen5 microplate reader and imager software and LHC2 microplate reader and imager software
Safety features	Safety shield, emergency-stop pendant
Sensors	Plate-presence sensor, rack-presence sensor, plate orientation sensor

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