

Agilent BioTek ELx405 Select Deep Well Washer

Product description



The Agilent BioTek ELx405 Select deep well washer aspirates and dispenses into 96- and 384-well plates ≤ 50 mm in height. ANSI/SBS standard microplates are also accommodated, resulting in a total solution for all of a laboratory's solid bottom microplate washing needs.

The ELx405 Select deep well washer is a robot-compatible, full plate washer incorporating the Agilent BioTek Dual-Action manifold with independent filling and evacuation control for precise overfill washing and overflow protection.

Available low-flow rates and angled dispensing make the ELx405 particularly useful in cell-based assays. With optional proprietary Agilent BioTek Ultrasonic Advantage, Agilent BioTek washers are the only products available today with built in ultrasonic cleaners able to automatically prime with cleaning solution, sonicate tubes to remove any protein or salt crystal build up and re-prime with rinse or wash buffer leaving the instrument clean and ready for the next wash.

Features

- Washes microplates ≤ 50 mm in height
- 96- and 384-well formats
- Optional cell washing with gentle, low-flow rates and 20° angled dispense tubes
- Dual-Action manifold for independent dispense and aspiration control
- Available automatic 1-to-4 wash buffer switching
- Optional Ultrasonic Advantage – built in ultrasonic cleaner for manifold self-maintenance
- Biomagnetic separation ready
- Software control from onboard keypad or Liquid Handling Control PC software
- LHC Secure software enables 21 CFR Part 11 compliance
- Agilent BioTek BioStack microplate stacker compatibility for standard height plates
- Agilent BenchCel microplate handler compatibility

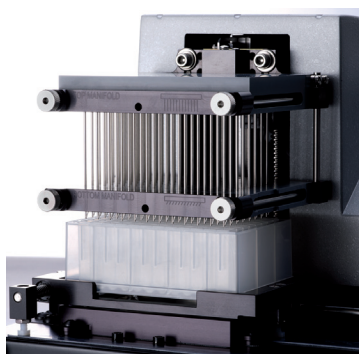


Figure 1. The Agilent Biotek ELx405 Select deep well washer aspirates and dispenses into full size 96- and 384-well blocks with unattended operation.

Typical applications

Deep well plates

- Plasmid DNA purification
- Serum/plasma sample preparation
- Cell signaling – phospho flow setup for flow cytometry
- Hematopoietic progenitor cell enumeration
- Cell culture – bacterial, yeast and mammalian cells grown in suspension

Standard height plates

- ELISAs
- MSD assays
- HCS immune cytochemistry
- Cell-based assays
- Magnetic bead assays – such as gene expression and cytokine panels
- ELISpot assays

Configurations

Configuration	Part #	96-/384-well	Deep Well	Cell Wash	Wash Buffer Switch	Ultrasonic Advantage	Biomag Sep
ELx405 Select	ELX405UD	•	•				•
	ELX405USD	•	•			•	•
	ELX405UVD	•	•		•		•
	ELX405UVSD	•	•		•	•	•
	ELX405UCWD	•	•	•			•
	ELX405UCWSD	•	•	•		•	•
	ELX405UCWVD	•	•	•	•		•
	ELX405UCWVSD	•	•	•	•	•	•

Optional accessories

- Dispense/waste systems – choice of 4 L or 10 L bottles and standard or high flow* vacuum pumps
- Direct drain waste system
- Product qualification package
- BioStack microplate stacker
- BenchCel microplate handler
- Agilent BioTek Liquid Handling Control (LHC) PC software
- Magnets – choice of 96- or 384-well formats

* High flow vacuum pump recommended for 384-well washing with buffers not containing surfactant.

Technical details

General	
Assays	ELISA Cell-based assays (configuration dependent) Magnetic bead – Multiplex assays – Bead-based ELISA
Microplate Types	96- and 384-well Low profile and standard height Deep well up to 50 mm
Magnet	Choice of high strength, flat or ring designs 96- and 384-well formats
Onboard Software	2 x 24 character backlit LCD display
Software	Optional Liquid Handling Control (LHC) PC software for wash protocol programming and execution
Manifold Type	96-/384-well washing - Dual-Action 96-tube (8 x 12)
Washing Speed	96-well (96-tube manifold) - <30 sec: 3 asp./disp. cycles, 300 µL/well
Fluid Delivery	Internal positive displacement pump
Volume Range	50–3,000 µL/well
Buffer Selection	Optional switching of up to 4 wash buffers
Wash Cycles	1 – 10
Dispense Precision	<3% CV
Residual Volume	<2 µL/well
Shaking	User-programmable speeds and timing
Soak Time	1–600 seconds
Physical characteristics	
Power	100–240 Volts AC. 50/60 Hz
Weight	30 lbs (13.5 kg)
Dimensions	17" D x 14" W x 11" H (43.2 x 35.6 x 27.9 cm)

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