C.WASH PLUS

The power of a microplate washer. Taken further.



The all-new C.WASH PLUS combines a high throughput, automation-ready and patented centrifugal plate washer with precise and dedicated dispensing capabilities for multi-reagent immune and cell-based assays in 96, 384 and 1536 well plate formats.



Non-contact, centrifugal liquid washing

Ensures sterile cell work. No carryovers. No contamination. No use of pipette tips.



Ultra-low residual volume

Spin your way to 99.5% washing efficiency with less than 0.1 µl residual volume and drastically less waste.



Cell-friendly dispensing

Plate perfection: C.WASH nails precise positioning, low-volume dispensing, and gentle evacuation, making cell detachment in 96 to 1536 wells a

thing of the past.



Automate entire assays

12 liquid inputs and the new precision dispenser make it ideal for automating assays such as ELISA or cell staining & washing procedures.



Programmable versatility

With the C.WASH PLUS software, tailor your lab's workflow like a pro. Customize dispensing, tweak volumes, pause on demand the control is all yours; end-to-end.



Effortless maintenance

Our instrument self-cleans like a dream. Just hook up the solution, hit 'clean', and watch it scrub its insides rotor to head. Lazy maintenance, lasting performance.

Oh. So. Plus.

- Ompatible with any SBS format 96, 384 and 1536 well plates
- Residual volume of <0.1 µl per well for all plate formats
- ✓ Unmatched washing efficiency of >99.99% after only 2 wash cycles
- O Low to zero dead volume enabled by all-new dedicated and precision dispensers

Impact Areas

- ELISA Assay Automation
- Immunoassays (ELISA plate washing)
- Meso Scale Discovery Electrochemiluminescence (MSD) Assays
- Cell Washing Adherent and Suspension Cells

- Cell-Based Assay Automation
- Plate Coating
- Washing in 1536 well format (HTS)
- Media Exchange



Intrigued? Get in touch.





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Technical Specifications

Liquid Removal		
Plate compatibility (format)	96, 384, 1536	
Plate compatibility (height)	standard 14.4 up to 20.1 mm with customized carrier	
Residual volume	< 0.1 µl per well for all plate formats	
Centrifugal forces	5 to 3500 rpm (450g) max acceleration/deceleration 2000 rpm	

Standard Dispenser (Membrane Pump & Electromechanical Valve)			
Dispense head	8-needle, 16-needle		
Liquid inputs	2 dedicated, 6 shared (auto switching (internal) for up to 6 liquid input channels)		
Dispensing accuracy & precision (standard dispenser)	<10% CV @30 µl Standard, <5% CV @2 µl Precision		
Adjustable dispense pressure	yes (3 levels)		
Deadvolume interval (tube volume)	8 ml multiplex		
Deadvolume (liquid switch/priming)	down to 0 µl (dedicated dispense heads)		
Volume range standard dispenser	8-needle dispense head: > 10 μl 16-needle dispense head: > 5 μl		
Dispense speed - 96-well (50 µl)	11 seconds		
Dispense speed - 384-well (25 µl)	15 seconds		

Precision Dispenser (Pressure-Over-Liquid)		
Dispense head	8-needle mounted on y-axis	
Liquid inputs	4	
Adjustable dispense pressure	yes	
Deadvolume	3 ml	
Dispensing accuracy & precision (precision dispenser)	<5% CV @2 µl	
Volume range precision dispenser	down to 2 µl	
Dispense speed - 96-well (100 µl)	24 seconds	
Dispense speed - 384-well (50 µl)	63 seconds	
Dispense speed - 1536-well (5 µl)	180 seconds	

	Washing Speed
Processing speed 96-well 1 wash cycle	≤ 43 seconds
Processing speed 96-well 2 wash cycles	≤ 60 seconds
Processing speed 384-well 1 wash cycle	≤ 54 seconds
Processing speed 384-well 2 wash cycles	≤ 70 seconds
Processing speed 1536-well 1 wash cycle (precision)	≤ 3 minutes

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Active Pump for rapid	l liquid remova	l from wash drum

Misc		
Plate positioning	band drive + linear magnetic sensor; accuracy: +/- 100 µm	
User interface	Touchpad (included)	
Automation	SiLA2 interface is compatible with third-party integration	
Washing efficiency	> 99.5% after 1 wash cycle, > 99.99% after 2 wash cycles	
Dimensions (W x D x H)	410 x 615 x 300 mm	
Weight	35.2 kg	

 $C.WASH\ PLUS\ centrifugal\ washer\ products\ are\ manufactured\ under\ an\ exclusive\ license\ from\ Yantai\ Ausbio\ Laboratories.$

Resources

Learn more about the power of the platform





Tip Consumption Calculator



Application Notes



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