



## MICROPLATE WASHER

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Microplate Washer are laboratory instruments designed to control the procedure of washing experimental samples arranged in plate-based formats. A dependable washer is quiet easy to clean and leaves no residue, preventing contamination and reducing background.

Used in ELISA, Cell-Based Assays, Microsphere-Based Assays.

Also known as Laboratory Microplate Washer.

## BMRW-103 MICROPLATE WASHER



- Easy Windows operation system, large LCD display.
- Washes flat, U and V-bottom strips and plates.
- 12-way or 8-way manifold, automatic and manual positioning.
- Large memory up to 50 wash protocols can be programmed.
- Automatic monitoring for vacuum and pressure, automatic rinse cycle.
- Washing pressure volume and time adjustable.
- Liquid level detection and alert function.
- No special airtight bottle required for wash bottle.
- Easy maintenance.

## SPECIFICATIONS

Model	BMRW-103
Display	5 inch LCD
Interface	RS-232 serial port
Power Supply	AC 100V-240V, 50 Hz/60 Hz
Dimension	390Lx330Wx177H mm
Plate Type	96-well plate or- 48-well plate or strip
Dispense Precision	CV<2%
Residual Volume	<3 ul
Washing Volume	50-3000ul for 8-way manifold 50-2000ul for 12-way manifold
Washing Cycle	Maximum 99 cycles
Strip Washing	1 to 12 channels adjustable
Soaking Time	0-24 hr
Bottle Capacity	2 litres each
Memory	50 washing protocols
Net Weight	9 kg

## BMRW-104 MICROPLATE WASHER



User friendly operation system with large LCD display.  
Washes flat, U and V-bottom strips and plate.  
12-way or 8-way manifold, automatic and manual positioning.  
Large memory, up to 100 wash protocols can be programmed.  
Multi-channel, 1 or up to 3 for wash, 1 for rinse and 1 for waste.  
Plate shaking function, time and speed are adjustable.  
Two 96-well plate incubation positions (optional).  
Liquid level detection and alert function.  
Easy maintenance.

## SPECIFICATIONS

Model	BMRW-104
Display	Large LCD
Interface	RS-232
Power Supply	AC 110V-220V, 50 Hz
Dimension	450Lx390Wx190H mm
Plate Type	96-48-well plate or strip
Residual Volume	<3 ul
Washing Volume	10~3000ul/well, 1ul by step
Washing Cycle	Maximum 99 cycles
Strip Washing	1 to 12 strips programmable
Soaking Time	0~24 hr
Shaking Time	0~24 hr
Memory	99 washing protocols
Wash Channels	5 channels, 1 or upto 3 for wash 1 for rinse and 1 for waste
Net Weight	13 kg
Incubator Temperature(optional)	25°C, 30°C, 37°C

## BMRW-105 MICROPLATE WASHER



96-way manifold, automatic and manual positioning.  
Multi-channel, 3 for wash, 1 for rinse and 1 for waste.  
Plate shaking function, time and speed are adjustable.  
User friendly operation system with large LCD display.  
Washes flat, U and V-bottom strips and plate.  
Large memory, up to 100 wash protocols can be programmed.  
Liquid level detection and alert function.  
Easy maintenance.

## SPECIFICATIONS

Model	BMRW-105
Display	Large LCD
Interface	RS-232
Power Supply	AC 110/220V±10%, 50±1 Hz
Dimension	610Lx460Wx240H mm
Plate Type	96-well plate or strip
Residual Volume	<1 ul
Washing Volume	50~3000ul/well, 10/50 ul continuously adjustable
Washing Cycle	Upto 99 cycles
Strip Washing	Wash 2 plates at a time, 1-8 strips programmable
Soaking Time	0~24 hr
Shaking Time	0~24 hr
Memory	100 washing protocols and 10 plate protocols
Wash Channels	5 channels, 3 for wash, 1 for rinse and 1 for waste
Net Weight	23.8 kg

## BMRW-301 MICROPLATE WASHER



The amount of residual liquid is low, with an average of  $\leq 0.65 \mu\text{L}$  per well, which effectively eliminates high background signals, and the results of enzyme label analysis are more reliable

Adopts 7-inch high-definition color screen display, full capacitive touch, intuitive and convenient operation, friendly human-computer interaction

The microplate can be soaked and shaken at the same time, and the soaking is more thorough

It has three kinds of linear vibration plate strength, high, medium and low, with low vibration noise

The instrument has an automatic flushing function, and the pipeline in the washing bottle has a built-in filter screen, which can effectively avoid pipeline blockage

With single-point, two-point and multi-point suction modes, cleaning is more thorough

Can set to perform single, cross-row, and whole-board cleaning

Pipeline flushing and distilled water washing functions can be set, and the flushing time can be adjusted

With a pause function, can also continue to completely perform the subsequent plate washing procedures

The instrument has the function of liquid level monitoring, which continuously monitors the liquid level status

Automatic alarm function when the washing bottle is used up, automatic alarm function when the waste liquid bottle is full, and automatically stop the operation

It can store 500 washing programs, and the program supports 99 times cycles

Support 8-pin, 12-pin needle cleaning head, and the cleaning head can be disassembled for cleaning

Suitable for flat bottom, U-shaped, V-shaped and C-shaped microplates

The position of the cleaning head is accurate to 0.1mm, suitable for various 96-well microplates

The pipe joint connection adopts snap button, which is convenient for installation

Insert the mouse into the USB port to operate the instrument, and support importing, exporting programs and updating the system from the U disk

## SPECIFICATIONS

Model	BMRW-301
Wishing head	1 x 8, 1 x 12
Washing bottle	3 x 2 L washing bottle, 1 x 4 L waste bottle
Residual liquid	≤ 0.65 uL(average per well)
Dimension	W.350 x D.475 x H.180 mm
Weight	11.5 Kgs
Injection volume precision	CV ≤ 1.5 @ 300 uL
Plate Type	96 well
Number of program storage	500 (Support U disk mass storage)
Washing times	1 ~ 99 times
Applicable plate type	Flat bottom, U-shaped, V-shaped, C-shaped
Shaking speed	off, slow, medium, fast
Aspiration time	0 ~ 99.9 s
Aspirate mode	One point, two point, more point
Liquid injection coefficient	0 ~ 2.0
Wash solution channel	Have
Alarm for insufficient washing liquid	Yes
Waste liquid overflow alarm	Yes
Waste liquid discharge	Yes
Washing Volume	50 uL~2000 uL increment 50 uL
Communication Interface	USB 2.0, LAN
Fuse	250 V, 5 A Φ5 x 20
Soaking and shaking time	0 - 99:59 m:s
Injection volume accuracy	≤ 2 % @ 300 uL
Power Supply	AC 220 V 50/60 Hz



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