

# MultiWash+ Microplate Washer

A 96- and 384-well automated washer

## BENEFITS

- Walk-up usability
- Start simply with wash and rinse bottles (included)
- Flexible system washes 96- or 384-well plates
- Automated rinse reduces clogging
- Quiet and efficient

## Introduction

MultiWash™+ washer is an automated microplate washer that provides maximum flexibility with a minimum footprint. The MultiWash+ washer can be configured for both 96- and 384-well plates and comes with four wash/rinse bottles and one waste bottle for out-of-the-box use.

## Wash protocols & modes

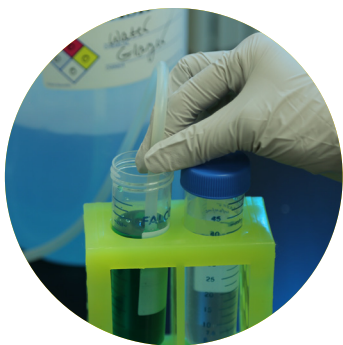
The on-board touch panel comes with the option of 20 different wash protocols, including up to 8 cycles within each protocol for walk-up usability and flexibility. Washing variations include adjustable speed and volume, adjustable aspiration speed and time, adjustable soak times and three modes of shaking are available to mix solutions.

## Efficiency

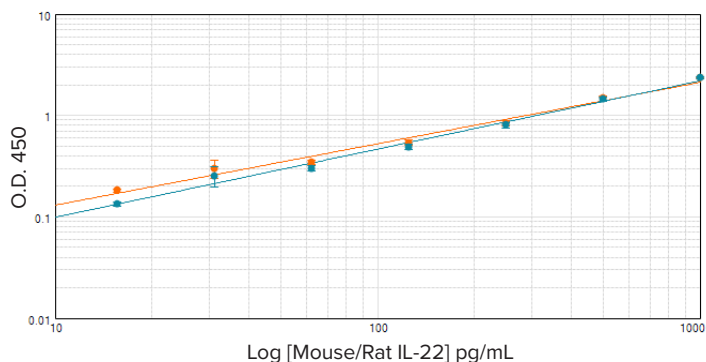
Efficient washing is achieved with cross-wise aspiration, reducing residual volume within each well. The washer has a small footprint and is vacuum and pressure free, with on-board pumps that provide a quiet wash experience.

## Mouse/Rat IL-22 Quantikine ELISA using the MultiWash+ washer

A Mouse/Rat IL-22 Quantikine ELISA from R&D systems was used to evaluate the MultiWash+ washer. An IL-22 standard curve was prepared and a sandwich ELISA was performed using the MultiWash+ plate washer in strip mode to wash the wells. After reading the ELISA plate on the EMax® Plus Microplate Reader, the R2 value was 0.984. A control well was set up to verify the accuracy of the standard curve. The standard was within the range described with the kit (data not shown).



**MultiWash+ washer can dispense in 50  $\mu$ L increments and tubing can be inserted into a variety of containers since pressurized bottles are not required.**



**ELISA Assay**

Technical specifications	
Plate wash time (300 $\mu$ L)	<ul style="list-style-type: none"> <li>96-well plate, 1 wash: 1 min. 9 sec.</li> <li>96-well plate, 3 washes: 3 min. 35 sec.</li> </ul>
Dispense volume	50 – 2000 $\mu$ L in 50 $\mu$ L increments
Residual volume	< 1 $\mu$ L per well
Dead volume	15.62 mL
Precision	< 5% at 300 $\mu$ L across the plate
User interface	2 X 16 characters backlit display keyboard with 5 function keys
Shaking	3 speeds
Microplates	<ul style="list-style-type: none"> <li>96-well plates flat and round bottom (384-well plates with 16-manifold)</li> <li>Fits plates with standard ANSI SBS footprint</li> </ul>
Power requirement	90 – 250B, 60V auto-sensing, 50/60 Hz
Instrument dimensions (WxHxD)	<ul style="list-style-type: none"> <li>21 x 21 x 44 cm,</li> <li>8.3" x 8.3" x 17.3"</li> </ul>
Weight	8Kg (17.8lbs)

Ordering information	Part number
MultiWash+ washer for 96-well plates: 4 liquid lines, 8 way manifold and tubing, 4 wash/rinse bottles (2L), 1 waste bottle (2.5L)	MultiWash+
Optional 16-way manifold	5032338
Optional 12-way manifold	5032336
Washer Maintenance Kit: 2 X T 2.5A spare fuses, 2 cleaning needles, tubing sets for all bottles, cleaning tool for needles, tubing set for manifold, and spare tubing set for manifold	5032339
External Tubing Kit (4-way)	5032340
Wash bottle (2L)	5032341
Rinse bottle (2L)	5032342

## Contact Us

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