

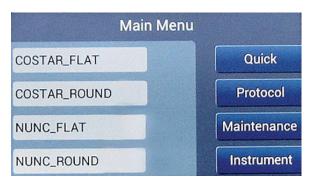
# Agilent BioTek 50 TS Washer



#### **Product description**

The Agilent BioTek 50 TS washer is a compact microplate washing system with functionality that is unsurpassed in its class. The color touchscreen provides a visual interface with menu-driven programming that makes creating protocols fast and intuitive. Its performance for conventional ELISA plate washing is excellent, but the 50 TS offers much more. Its modularity makes it ideal for cell-based assay washing, biomagnetic separation and vacuum filtration processes.

The 50 TS is an affordable choice for automating the wash steps of a variety of applications in clinical and research laboratories. Used in conjunction with the Agilent BioTek 800 TS absorbance reader or other detection system, the 50 TS offers a welcome upgrade from manual processing – bringing convenience and consistently high-quality results to your laboratory's plate washing workflows.



**Figure 1.** Programming and operating the Agilent BioTek 50 TS washer is intuitive and easy with the touchscreen and menu-driven software.



**Figure 2.** Wash filter-bottom plates and magnetic bead assays with available modules.

#### **Features**

- Application versatility: ELISA, cell-based assays and bead-based assays
- Color touchscreen makes programming quick and easy
- Easy touch operation for washing full or partial plates
- Reliable and safe: liquid level sensing
- Automated switching of up to three buffers for even greater automation
- Automated, built-in maintenance routines for continued reliable operation

# **Typical applications**

- ELISA
- Cell-based assays
- Biomagnetic particle separation assays
- Filtration-to-waste protocols

### **Configurations**

Configuration	Part #	96-Well only	96-/384- Well	Buffer Switching	Biomagnetic Separation	Vacuum Filtration
50 TS	50TS8	•				
	50TS8V	•		•		
	50TS8M	•			•	
	50TS8MV	•		•	•	
	50TS8F	•				•
	50TS8MF	•			•	•
	50TS12	•				
	50TS12V	•		•		
	50TS16		•			
	50TS16V		•	•		

## **Optional accessories**

- 4-, 8-, 8s-, 2 x 8- and 12-well manifolds
- 96-well magnets choice of immobilization patterns
- Product qualification package



Figure 3. The Agilent BioTek 50 TS washer is ideal for pairing with the Agilent BioTek 800 TS absorbance reader for routine workflows.

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This information is subject to change without notice.

#### **Technical details**

General							
Microplate T	vnes	24- 96- 3					
Shaking Pro		Program	24-, 96-, 384-well plates and microwell strips  Programmable in minutes and seconds up to 30 minutes,				
5 101			5 intensities from 15 to 19 Hz Programmable in minutes and seconds up to 30 minutes				
Ri		Biomagnetic separation ("M" configurations)					
Separation Methods		Vacuum filtration ("F" configurations)					
User Interfac	User Interface		4.3" color LCD touchscreen				
Onboard Software		- Up to 75 user-programmable protocols - Quick menu - Create or edit custom protocols - Run protocols created onboard or downloaded from Liquid Handling Control (LHC) software					
Software			uid Handling Control (LHC) for PC wash protocol ogramming and execution (optional)				
			Washing				
Manifold Types		<ul> <li>96-well washing:</li> <li>8-well (1 x 8) manifold, 2 x 8-well manifold, 12-well (1 x 12) manifold</li> <li>8-well short tube (1 x 8) manifold</li> <li>96-/384-well washing: Dual-Action 16-well manifold</li> <li>24-well washing: 4-well manifold</li> </ul>					
		25 - 3,000 µL well					
		One positive displacement syringe drive					
		1-10					
Buffer/Reagent Selection		Automated switching for up to 3 buffers ("V" configurations)					
Wash speed							
Plate	Manifold	<u> </u>	Speed				
96-well	2 x 8 well		< 80s for 12 strips (3 cycles, 300 µL/well, no soak)				
96-well	12 well		< 90s for 8 strips (3 cycles, 300 µL/well, no soak)				
96-well	8 and 8s well		< 130s for 12 strips (3 cycles, 300 µL/well, no soak)				
384-well	8, 16 well		< 260s for 24 strips (3 cycles, 100 µL/well, no soak)				
24-well	4 well		< 60s for 24 wells (1 cycle, 1120 μL/well, no soak)				
Dispense precision							
Plate	Manifold	I	Performance				
96-well	8 and 8s well		≤ 3.0% CV when measured over six 300 µL-per-well dispenses of deionized water with 0.1% Tween 20.				
96-well	12 well		≤ 3.0% CV when measured over four 300 µL-per-well dispenses of deionized water with 0.1% Tween 20.				
384-well	8, 16 well		≤ 4.0% CV when measured over six 100 µL-per-well dispenses of deionized water with 0.1% Tween 20.				
96-well	2 x 8 well		$_{\rm <}$ 4.0% CV when measured over six 300 µL-per-well dispenses (whole plate) of deionized water with 0.1% Tween 20.				
24-well	4 well		$\leq 4.0\%$ CV when measured over six 1120 $\mu L\text{-per-well}$ dispenses of deionized water with 0.1% Tween 20.				
Dista	Manteri	Residual volume					
Plate	Manifold		Performance				
96-well	8 and 8s well		≤ 2.0 µL/ well after 3-cycle wash, 300 µL/well dispensed				
96-well	12 well		≤ 2.0 μL/ well after 3-cycle wash, 300 μL/well dispensed				
384-well	8, 16 well		≤ 4.0 μL/ well after 1-cycle wash, 100 μL/ well dispensed				
96-well	2 x 8 well		≤ 4.0 μL/ well after 1.120 μL is dispensed per well				
24-well 96-well			≤ 50 µL/ well after 1120 µL is dispensed per well  Average increased weight of the plate is < 1.2 grams				
		mualion	after dispensing 300 µL of deionized water/well				
Physical characteristics							
Power			I 24 V DC power supply compatible with 100-240 V AC D Hz. Power consumption: 40 Watts				
-		22 lbs (9					
Dimensions			15" W x 8" H (40.6 x 35.6 x 16.5 cm)				
Connectivity	Connectivity 1 USE		port for computer control				

