

Agilent BioTek 800 TS Absorbance Reader

High-quality microplate reading at an affordable price



800 TS absorbance reader

The Agilent BioTek 800 TS absorbance reader is an affordable, high-quality microplate reader for assays in 6- to 384-well formats. The 800 TS is an essential component to many application workflows, including automated ELISA, kinetic ELISA, cytotoxicity assays, cell-based assays, and more. The robust, low-maintenance hardware and powerful software deliver accurate, repeatable results.



Easy to use

The 800 TS absorbance reader offers simple plate reading, data visualization, results reporting, and exporting through the onboard software and intuitive interface.



Gen6 data analysis software

For convenient, powerful data collection and analysis, the 800 TS comes with Agilent BioTek Gen6 data analysis software. This user-friendly PC software expands the range of applications, analysis, exporting, and reporting options when used with the 800 TS.

Wide range of applications

The 800 TS can process assays in 6- to 384-well microplates, in wavelengths ranging from 340 to 750 nm. The range of high-quality bandpass filters enables ELISA, protein quantification, and other end-point assays. Available functions like shaking and incubation to 50 °C support enzyme kinetics and cell-based assays.



Bundled instruments increase workflow automation

The 800 TS absorbance reader (left) and the Agilent BioTek 50 TS washer (right) together make an affordable, compact, semi-automated system for ELISA and other processes.



Applications

- ELISA
- Enzyme kinetics
- Bradford, BCA, and Lowry protein assays
- NAD/NADH assays
- Cytotoxicity/cell viability assays

Technical details

General	
Detection Modes	Absorbance
Read Methods	End point (onboard software) End point, kinetic, area scanning (under Gen6 control)
Microplate Types	6-, 12-, 24-, 48-, and 96-well microplates 384-well microplates ("NB" configurations) Terasaki plates ("NB" configurations only; requires p/n 7330531 adapter); maximum plate height 0.9" (22.86 mm)
Temperature Control	To 50 °C ("I" configuration)
Shaking	Yes (except 800TSNB)
Read Speed	96-well, single wavelength, normal read mode: 39 s 96-well, dual wavelength, normal read mode: 73 s 96-well, single wavelength, rapid read mode: 26 s 96-well, single wavelength, sweep read mode: 18 s
Software	Agilent BioTek Gen6 data analysis software Agilent BioTek Gen5 Secure software enables 21 CFR Part 11 compliance (option)
Absorbance	
Light Source	Tungsten halogen
Wavelength Selection	Filters
Wavelength Range	400–750 nm 340–750 nm ("UV" configurations)
Filter Wheel Capacity	Five positions
Dynamic Range	0 to 4.0 OD (normal and rapid read modes) 0 to 3.0 OD (sweep read mode)
Resolution	0.001 OD (standalone mode) 0.0001 OD (via Gen6 or Gen5 software control)
Accuracy (96 Wells, Normal Read Mode)	± 1.0% ± 0.010 OD from 0.000 to 2.000 OD at 405 nm ± 2.0% ± 0.010 OD from 0.000 to 2.000 OD at 340 nm ("UV" configurations)
Linearity (96 Wells, Normal Read Mode)	± 1.0% ± 0.010 OD from 0.000 to 2.000 OD at 405 nm ± 3.0% ± 0.010 OD from 2.000 to 3.000 OD at 450 nm ± 2.5% ± 0.010 OD from 0.000 to 2.000 OD at 340 nm ("UV" configurations)
Repeatability (96 Wells, Normal Read Mode)	± 0.5% ± 0.005 OD from 0.000 to 2.000 OD at 405 nm ± 1.5% ± 0.005 OD from 0.000 to 2.000 OD at 340 nm ("UV" configurations)
Physical Characteristics	
Power	External 24 VDC power supply compatible with 100–240 VAC at 50–60 Hz Power consumption: 40 W; 150 W for incubated configurations
Dimensions	16.5" D x 15" W x 7" H (41.9 x 38.1 x 17.8 cm)
Weight	< 22 lb (9.97 kg)
Connectivity	One USB port for computer control, one USB port for printer

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