

Agilent BioTek 800 TS Absorbance Reader

Technical details

General	
Detection Modes	Absorbance
Read Methods	End-point, kinetic, well-area scanning (under computer control)
Microplate Types	6-, 12-, 24-, 48-, and 96-well microplates 384-well microplates ("NB" configurations) Terasaki plates ("NB" configurations only; requires part number 7330531 adapter) Maximum plate height 0.9" (22.86 mm)
Temperature Control	50 °C (800TSI, 800TSUVI)
Shaking	Linear (except "NB" configurations)
Software	Agilent BioTek Gen5 data analysis software (included) Agilent BioTek Gen5 Secure software enables 21 CFR Part 11 compliance (option)
Onboard Software	Up to 40 user-programmable protocols Quick menu Create, edit, or run protocols Save results to USB thumb drive
Printer	External USB printer (optional)
User Interface	4.3" color LCD touchscreen display
Absorbance	
Light Source	Tungsten halogen
Detector	Photodiode
Wavelength Selection	Filters
Wavelength Range	400–750 nm 340–750 nm ("UV" configurations)
Dynamic Range	0–4.0 OD (normal and rapid read modes) 0–3.0 OD (sweep read mode)
Resolution	0.001 OD (standalone software) 0.0001 OD (via Gen5 control)
Filter Wheel Capacity	5
Filters Supplied	405, 450, 490, and 630 nm 340, 405, 450, 490, and 630 nm ("UV" configurations)
OD Accuracy	96-well plate, normal read mode, 405 nm ± 1.0% ± 0.010 OD from 0.0 to 2.0 OD
OD Linearity	96-well plate, normal read mode, 405 nm ± 1.0% from 0.0 to 2.0 OD ± 3.0% from 2.0 OD to 3.0 OD
OD Repeatability	96-well plate, normal read mode, 405 nm ± 0.5% ± 0.005 OD from 0.0 to 2.0 OD

Reading Speed (Kinetic)	96 wells, single wavelength: <ul style="list-style-type: none"> - Normal read mode: 30 s - Rapid read mode: 18 s - Sweep read mode: 11 s 96 wells, dual wavelength* <ul style="list-style-type: none"> - Normal read mode: 63 s
Physical Characteristics	
Connectivity	One USB Type B for computer control Two USB Type A for thumb drive and printer
Power	External 24 VDC power supply compatible with 100–240 VAC at 50–60 Hz Power consumption: 40 W
Dimensions	41.9 cm W x 38.1 cm D x 17.8 cm H (16.5" W x 15" D x 7" H)
Weight	8 kg (18.5 lb)

Configurations

Part Number	6- to 96-Well Plates	6- to 384-Well, Terasaki Plates	400–750 nm	340–750 nm	Incubation	Shaking
800TS	•		•			•
800TSI	•		•		•	•
800TSUV	•			•		•
800TSUVI	•			•	•	•
800TSNB		•	•			

Gen5 software is included with all 800 TS configurations.