

Agilent BioTek Synergy HTX Multimode Reader

Technical details

General						
Detection Modes	UV-Vis absorbance Fluorescence intensity Luminescence Time-resolved fluorescence (secondary mode) Alpha					
Read Methods	End point, kinetic, spectral scanning, and well-area scanning					
Microplate Types	6- to 384-well plates					
Other Labware Supported	PCR plates, Petri and cell culture dishes Agilent BioTek Take3 microvolume plates					
Temperature Control	4-Zone Incubation to 50 °C with Condensation Control \pm 0.2 °C at 37 °C					
Shaking	Linear, orbital					
Software	Agilent BioTek Gen6 data analysis software Agilent BioTek Gen5 Secure software enables 21 CFR Part 11 compliance (option)					
Automation	Agilent BioTek BioStack microplate stacker and third-party automation compatible					
	Absorbance					
Light Source	Xenon flash					
Detector	Photodiode					
Wavelength Selection	Monochromator					
Wavelength Range	200–999 nm, 1 nm increments					
Monochromator Bandwidth	2.4 nm					
Dynamic Range	0-4.0 OD					
Resolution	0.0001 OD					
Path Length Correction	Yes					
Monochromator Wavelength Accuracy	± 0.2 nm					
OD Accuracy	< 1% at 2.0 OD < 3% at 3.0 OD					
OD Linearity	< 1% from 0 to 3.0 OD					
OD Repeatability	< 5% at 2.0 OD					
Stray Light	0.03% at 230 nm					
Reading Speed (Kinetic)	96 wells: 14 s 384 wells: 26 s					

Fluorescence Intensity							
Light Source	Tungsten halogen Xenon flash (option)						
Detector	РМТ						
Wavelength Selection	Filters						
Wavelength Range	300-700 nm (200-850 nm option)						
Dynamic Range	> 6 decades						
Sensitivity	Top and bottom: fluorescein 5 pM (1 fmol/well, 96-well plate)						
Reading Speed (Kinetic)	96 wells: 31 s 384 wells: 80 s						
Luminescence							
Wavelength Range	300-700 nm						
Dynamic Range	> 6 decades						
Sensitivity	10 amol ATP (flash)—luminescence and absorbance/luminescence configurations 30 amol ATP (flash)—multimode configurations						
Time-Resolved Fluorescence							
Light Source	Xenon flash						
Detector	PMT						
Wavelength Selection	Monochromator						
	Alpha Detection						
Light Source	Tungsten halogen						
Detector	PMT						
Wavelength Selection	Filters						
Sensitivity	300 amol of biotinylated-LCK-P peptide, 25 μL/well in 384-well plate						
Read Speed	2 min (96-well plate)						
Reagent Dispensers							
Supported Detection Modes	All modes						
Number	2 syringe pumps						
Supported Labware	6- to 384-well microplates						
Dead Volume	1.1 mL, with backflush						
Dispense Volume	5-1,000 μL in 1 μL increments						
Dispense Accuracy	±1 μL or 2%						
Dispense Precision	< 2% at 50–200 μL						
Physical Characteristics							
Connectivity	1 USB, 1 RS232 for external PC control						
Power	100-240 VAC, 50-60 Hz						
Dimensions	16" W x 15" D x 10" H (40.6 x 38.0 x 25.4 cm)						
Weight	40 lb (18 kg)						

Configurations

Part Number	S1L	S1A	S1LA	S1LF	S1LFA	S1LFTA
Absorbance		•	•		•	•
Fluorescence				•	•	•
Luminescence	•		•	•	•	•
Alpha				•	•	•
Incubation	•	•	•	•	•	•
Shaking	•	•	•	•	•	•
Dual-Reagent Injector*	•	•	•	•	•	•
Time-Resolved Fluorescence (TRF) (Secondary Mode)						•
Gen6 Data Analysis Software	•	•	•	•	•	•

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This information is subject to change without notice.

