

# Agilent BioTek LogPhase 600 Microbiology Reader

## Technical details

General	
Detection Modes	Absorbance
Microplate Types	96-well microplates (with cover seal)
Microplate Capacity	Four-microplate capacity
Temperature Control	Incubation from 30 °C to 45 °C with Condensation Control Variation $\pm 0.5$ °C at 37 °C Plate to plate uniformity $\pm 0.5$ °C at 37 °C (measured at plate center)
Shaking	Orbital, user-selectable velocity
Software	Agilent BioTek LogPhase app included; provides reader control, data collection, and complete analysis
Absorbance	
Light Source	LED
Detector	2 photodiodes (measurement and reference)
Wavelength Range	560–640 nm, configuration dependent
Dynamic Range	0–4.0 OD
Resolution	0.001 OD
OD Accuracy	0.000–2.000 OD $\pm 1\% \pm 0.010$ OD
OD Linearity	0.000–2.000 OD $\pm 1\% \pm 0.010$ OD
OD Repeatability	0.000–2.000 OD $\pm 1\% \pm 0.005$ OD
Reading Speed (Kinetic)	Reading speed: < 60 s per plate Minimum kinetic interval: 2 min 30 s (<60 s read time; 90 s shake) per plate
Physical Characteristics	
Power	24 VDC power supply compatible with 100–240 volts AC at 50–60 Hz, 250 W (minimum)
Dimensions	10.5" H x 26.0" W x 16.0" D (26.7 x 66 x 40.6 cm)
Weight	50 lb (22.7 kg)

## Configurations

Part Number	Description
LP600	LogPhase 600 4-plate absorbance reader for measuring kinetic growth curves at 600 nm. Features shaking and incubation to 45 °C, and includes LogPhase App for reader control, data collection, and analysis.
LP560	LogPhase 600 4-plate absorbance reader for measuring kinetic growth curves at 560 nm. Features shaking and incubation to 45 °C, and includes LogPhase App for reader control, data collection, and analysis.
LP580	LogPhase 600 4-plate absorbance reader for measuring kinetic growth curves at 580 nm. Features shaking and incubation to 45 °C, and includes LogPhase App for reader control, data collection, and analysis.
LP620	LogPhase 600 4-plate absorbance reader for measuring kinetic growth curves at 620 nm. Features shaking and incubation to 45 °C, and includes LogPhase App for reader control, data collection, and analysis.
LP640	LogPhase 600 4-plate absorbance reader for measuring kinetic growth curves at 640 nm. Features shaking and incubation to 45 °C, and includes LogPhase App for reader control, data collection and analysis.

[www.agilent.com/lifesciences/biotek](http://www.agilent.com/lifesciences/biotek)

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