

Agilent BioTek Epoch 2 Microplate Spectrophotometer

Technical details

General	
Detection Modes	UV-Vis absorbance
Read Methods	End point, kinetic, absorbance spectral scanning (onboard software and under Gen5 control) End point, kinetic, absorbance spectral scanning, well-area scanning (under Gen5 control)
Microplate Types	6- to 384-well plates
Other Labware Supported	Agilent BioTek Take3 microvolume plates (onboard software) Agilent BioTek Take3 and Take3 Trio microvolume plates Standard cuvette (option)
Temperature Control	4-Zone Incubation to 65 °C with Condensation Control
Shaking	Linear, orbital, double orbital
Software	Agilent BioTek Gen5 data analysis software Agilent BioTek Gen5 Secure software enables 21 CFR Part 11 compliance (option) Onboard software with easy programming and several predefined protocols (touch screen configurations)
Automation	Agilent BioTek BioStack microplate stacker and third-party automation compatible Agilent BioTek BioSpa 8 automated incubator compatible Agilent BenchCel microplate handler compatible
Absorbance	
Light Source	Xenon flash
Detector	Photodiode
Wavelength Selection	Monochromator
Wavelength Range	200–999 nm, in 1 nm increments
Monochromator Bandwidth	2.9 nm
Dynamic Range	0–4.0 OD
Resolution	0.001 OD (onboard software) 0.0001 OD (under Gen5 control)
Pathlength Correction	Yes (under Gen5 control)
Monochromator Wavelength Accuracy	± 2 nm
Monochromator Wavelength Repeatability	± 0.2 nm
OD Accuracy	< 1% at 2.0 OD < 3% at 2.5 OD
OD Linearity	< 1% from 0 to 2.5 OD
OD Repeatability	< 0.5% at 2.0 OD



Figure 1. Agilent BioTek Epoch 2 spectrophotometer nontouch configuration.

Stray Light	0.03% at 230 nm
Reading Speed (Kinetic)	96 wells sweep read: 8 s 384 wells sweep read: 14 s
Physical Characteristics	
Power	External 24 VDC power supply compatible with 100–240 volts AC at 50–60 Hz. 60 W maximum consumption.
Dimensions	Touch screen models: 32 cm H x 32.3 cm W x 39.54 cm D (12.5" H x 12.75" W x 15.5" D) Nontouch screen models: approximately 22 cm H x 32.3 cm W x 39.54 cm D (8.5" H x 12.75" W x 15.5" D)
Weight	11.34 kg (25 lb)



Figure 2. Agilent BioTek Epoch 2 spectrophotometer touch screen configuration.

Configurations

Part Number	EPOCH2NS	EPOCH2NSC	EPOCH2TS	EPOCH2TSC
Incubation	•	•	•	•
Shaking	•	•	•	•
Gen5 Software	•	•	•	•
Touch Screen			•	•
Cuvette Port		•		•

Epoch 2 is available in both nontouch and touch screen configurations..