

Epoch™ 2 Microplate Spectrophotometer

Epoch™ 2 Microplate Spectrophotometer offers excellent performance for UV-Vis measurements in 6- to 384-well microplates, cuvettes and in micro-volume samples with the available Take3™ Micro-Volume Plate. The optional touchscreen interface makes it easy to choose from pre-defined protocols or to define custom programs. End point, kinetic, spectral scanning and well area scanning modes, plus incubation and shaking enable wide-ranging applications.

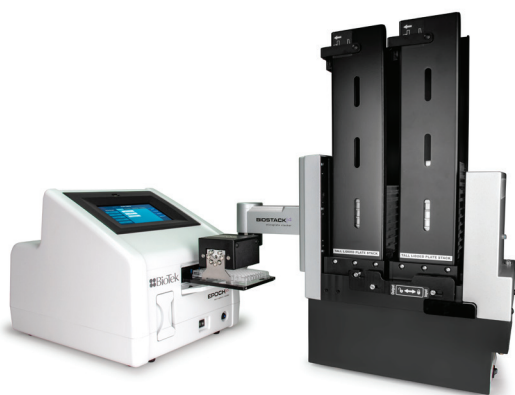


Use the Take3 Micro-Volume Plate with Epoch 2 for direct nucleic acid and protein quantification in multiple 2 μ L samples.



Features:

- Filter-free UV-Vis wavelength selection from 200 – 999 nm for an extensive range of applications, from nucleic acid and protein quantification to ELISA and microbial growth assays
- End point, kinetic and spectral scanning modes enable a variety of workflows
- Compatible with 6- to 384-well plates and cuvettes for assay versatility
- Micro-volume (2 μ L) measurements with the Take3 Plate allow dilution-free nucleic acid quantification
- 4-Zone™ incubation to 65 °C and Condensation Control™ facilitate temperature-sensitive assays
- Available touchscreen interface with convenient predefined common protocols enables standalone use; no computer required
- Advanced shaking profiles including linear, orbital and double orbital enable gentle or vigorous mixing
- Optional cuvette port for easy 1 cm measurements
- Compatible with BioStack™ Microplate Stacker, BioSpa™ 8 Automated Incubator and 3rd party systems for complete workflow automation



Epoch™ 2 with BioStack™ Microplate Stacker.

Applications:

- Nucleic acid and protein direct quantification
- Micro-volume assays with Take3™ plates
- Microbial growth assays
- Cytotoxicity assay
- Cell proliferation assay
- End point or kinetic ELISA
- Spectral scanning

Configurations:

| Part Number | Description |
|-------------|---|
| EPOCH2NS | 200-999 nm, incubation to 65 °C, linear, orbital and double orbital shaking. |
| EPOCH2NSC | 200-999 nm, incubation to 65 °C, linear, orbital and double orbital shaking, plus cuvette port. |
| EPOCH2TS | 200-999 nm, incubation to 65 °C, linear, orbital and double orbital shaking, touchscreen and onboard software. |
| EPOCH2TSC | 200-999 nm, incubation to 65 °C, linear, orbital and double orbital shaking, plus cuvette port, touchscreen and onboard software. |

Optional Accessories:

- Take3 Micro-Volume Plates
- Gen5™ Secure for 21 CFR Part 11 compliance
- Product Qualification Package
- Absorbance Test Plate
- BioStack Microplate Stacker
- BioSpa 8 Automated Incubator



Epoch™ 2 with optional cuvette port.



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Specifications:

General

| | |
|--------------------------|--|
| Detection mode: | Absorbance |
| Read methods: | End point, kinetic, spectral scanning (onboard software) End point, kinetic, area scanning, absorbance spectral scanning (under Gen5 control) |
| Microplate types: | 6- to 384-well microplates |
| Other labware supported: | Take3 Micro-Volume Plates Standard cuvettes |
| Temperature control: | to 65 °C Uniformity +/- 0.2 °C at 37 °C |
| Shaking: | Linear, orbital, double-orbital |
| Software: | Gen5 Software included Onboard software (touchscreen configurations) |
| Automation: | BioStack and 3 rd party automation compatible BioSpa™ 8 Automated Incubator compatible |

Absorbance

| | |
|---------------------------|---|
| Light source: | Xenon flash lamp |
| Detector: | Photodiode |
| Wavelength selection: | Monochromator |
| Wavelength range: | 200 nm to 999 nm, in 1 nm increments |
| Monochromator: | |
| Bandwidth | ≤5 nm |
| Wavelength accuracy | ±2 nm |
| Wavelength precision | ±2 nm (standard deviation) |
| Dynamic range | 0 to 4.0 OD |
| Resolution: | 0.001 OD (onboard software) 0.0001 OD (under Gen5 control) |
| Pathlength correction: | Yes (under Gen5 Control) |
| Optical Density: | |
| Accuracy | <1% at 2.0 OD <3% at 2.5 OD |
| Linearity | <1% from 0 to 2.5 OD |
| Repeatability | <0.5% at 2.0 OD |
| Stray light: | 0.03% at 230 nm |
| Reading speed (kinetic*): | 96 wells: 8 seconds 384 wells: 14 seconds (*under Gen5 control) |

Physical Characteristics

| | |
|---------------|---|
| Connectivity: | (1) USB 2.0 ports for computer control (2) USB 2.0 ports for printer connection and USB thumb drive (touchscreen configurations only) |
| Dimensions: | 15" H x 15" W x 15" D (with touchscreen) (38.1 cm H x 38.1 cm W x 38.1 cm D) 12" H x 15" W x 15" D (30.5 cm H x 38.1 cm W x 38.1 cm D) |
| Weight: | ≤27 lbs (12.3 Kg) |
| Power: | External 24 VDC power supply compatible with 100-240 volts AC at 50-60Hz. 60 W max. |

Regulatory

CE and TUV marked. RoHS compliant.
IVD configurations are available.

Performance values represent the average observed factory test values.
Specifications subject to change.