

96-well absorbance microplate reader with three usb ports

This 96-well absorbance microplate reader is a high-performance light absorption device based on filters, using advanced optical design and filter technology, suitable for scientific research, clinical testing and drug development fields.

The 96-well absorbance microplate reader is capable of high-precision light absorption detection in the wavelength range of 340nm to 750nm, suitable for 96-well microtiter plates and capable of handling different throughputs of sample detection. The 96-well absorbance microplate reader is equipped with a 7-inch touch screen LCD monitor with a simple and intuitive operating interface, which eliminates the need for an external keyboard and enhances the ease of use. Meanwhile, this microtiter plate zymography instrument has a built-in storage function to save measurement data and programs, and supports data export via USB flash drive, which is convenient for sharing and archiving with external systems.

Main Features of the 96-well Absorbance Microplate Reader

1. wide range of absorbance measurement: supports absorbance measurement from 0.0 to 4.000 Abs, which can meet different concentration and experimental requirements.



2. Efficient detection speed: each detection can complete the light absorption measurement of 96-well plate within 65 seconds, which improves the experimental efficiency.
3. 8-position filter wheel: equipped with 4 filters, users can choose different filters as needed to meet a variety of experimental conditions.
4. high-resolution touch screen: 7-inch color LCD touch screen, easy to operate, friendly interface, reducing the tedious operation steps.

Advantages of 96-well Absorbance Microplate Reader

1. easy to operate: no keyboard operation, touch screen operation makes it easier and more intuitive to set up parameters, read data, and reduces operating errors.
2. flexible data processing: built-in software provides data storage, analysis and reporting functions, support for data export via U disk, convenient for information sharing and further analysis.
3. High accuracy and reproducibility: High accuracy and reproducibility of measurement results are ensured by high quality filters and precise optical detection, suitable for experiments with strict requirements on result accuracy.

Working Principle

96-well Absorbance Microplate Enzyme Labeler utilizes a filter to select a specific wavelength light source to irradiate the sample in the microplate, and then measures the sample's absorbance of the specific wavelength light through the detector. The measurement process is controlled by a built-in microprocessor that enables precise quantitative analysis of the absorbance of the sample. The instrument uses optical filters to select wavelengths, ensuring that light absorption measurements are performed under precise conditions for each sample.

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Model	MR10
Display	7-inch capacitive touchscreen
Light Source	6V, 10W halogen lamp
Wavelength Range	340nm to 750nm
Filter	Standard with four filters, 405nm, 450nm, 492nm, 630nm, up to eight filters installable
Absorbance Range	0 to 4.0Abs
Resolution	0.001Abs

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Model	MR10
Linearity	≥ 0.995
Wavelength Accuracy	$\leq \pm 2\text{nm}$
Absorbance Repeatability	$\text{CV} \leq 0.3\% [0,3\text{Abs})$, $\text{CV} \leq 1\% [3, 4\text{Abs})$
Absorbance Stability	$\leq 0.005\text{Abs} [0,3\text{Abs})$ $\leq 2.0\% [3,4\text{Abs})$
Absorbance Accuracy	$\leq \pm 0.005\text{Abs} [0,2\text{Abs})$ $\leq \pm 0.01\text{Abs} [2,3\text{Abs})$ $\leq \pm 1.5\% [3,4\text{Abs})$
Sensitivity, Detector	$\geq 0.01\text{A}$, photodiode
Measurement Speed	6 seconds per 96 wells, fast mode. single wavelength < 15 seconds per 96 wells, dual wavelength < 28 seconds per 96 wells, normal mode
User Interface	Built-in software, touchscreen input, external mouse supported
Memory	Capable of storing 1000 measurement programs and results
Interface	3 USB ports for connection to computer, printer, and USB flash drive

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Model	MR10
Power Supply	100Vac to 240Vac, 50-60Hz, 2A
External Dimensions	295x440x225mm
Weight	10kg