BioLAB

PRODUCT CATALOG

MICROPLATE READER BFA-8601

CE ISO9001 CERTIFIED

www.biolabscientific.com

MICROPLATE READER BFA-8601

FULL WAVELENGTH MICROPLATE READER

Full Wavelength Microplate Reader is a high-quality reader based on a grating monochromator with a wavelength range of 200~1100nm. It is designed for medical, biological laboratories, and drug development institutions, and can be used for spectral scanning, endpoint method, and kinetic detection. Compared with similar products on the market, it has the advantage of flexible detection. It can be used for microplate oscillation and cultivation without the need for external filters, and is suitable for various plate types. The interface is intuitive, clear, and the operation is flexible and convenient. It is a Full Wavelength Microplate Reader that can be integrated to meet various experimental needs of customers.

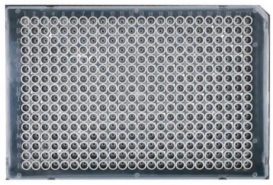
Diverse types of carriers:
Suitable for 96 well plates, 384 well plates, ultramicro plates, and cuvette, with a variety of choices to meet your experimental needs. The cuvette mode has independent cuvette software, which can be directly used for photometric detection, kinetic or spectral scanning, and standard curve establishment. The ultra trace detection plate is designed for rapid detection of small volume samples. Supports simultaneous analysis of up to 16 samples. Users can quickly and conveniently clear the tested samples for continuous measurement.
Wide and accurate lighting system:
Using a flickering xenon lamp as the light source, wavelength selection is carried out through an advanced grating monochromator system. The wavelength detection range is 200~1100 nm, and full spectrum scanning can be performed in 1 nm step

SPECIFICATIONS

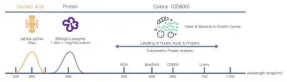
Model	BFA-8601
Display	10 inch high-resolution capacitive touch screen
Light source	Xenon flash lamp / Number of flashes > 10^9
Wavelength range	200-1100 nm
Wavelength accuracy	2 nm
Wavelength repeatability	0.2 nm
Optical system	Grating monochromator, 1 nm stepper
Reading range	0 - 4.0 OD
Bandwidth	< 2.5 nm
Carrier type	96 well plate, 384 well plate, microplate, cuvette
Cuvette size (WxDxH)	12.5 mm x 12.5 mm x 40-45 mm
Detection system	2 silicon photoelectric detection tubes, 1 measurement, 1 reference
Linear @450nm	$R^2 \geq 0.999$, [0.0 - 3.0 Abs]
Absorbance Accuracy @450nm	±(1.0% + 0.003 Abs), (0-2.0 Abs); ±2.0%, (2.0-2.5 Abs)
Repeatability of absorbance @450nm	Precision mode: CV < 0.5% or SD < 0.003; Quick mode: CV < 1.0% or SD < 0.003
Measure speed	96 well plate for 8 seconds; 384 well plate for 15 seconds
Oscillation	Linear, with 3 adjustable speeds
Temperature range	Room temperature +4°C to 65°C
Temperature accuracy	±0.5°C @ 37°C
Temperature uniformity	±0.5°C @ 37°C
Input power	AC 100-240V, 3A, 50/60Hz
Power	300 W
Fuse	250V, 3A Φ5x20
Dimensions (WxDxH)	300 mm x 430 mm x 242 mm
Net weight	15 kg
Alt Name	Full Wavelength Microplate Reader

FEATURES

Diverse types of carriers:
Suitable for 96 well plates, 384 well plates, ultramicro plates, and cuvette, with a variety of choices to meet your experimental needs. The cuvette mode has independent cuvette software, which can be directly used for photometric detection, kinetic or spectral scanning, and standard curve establishment. The ultra trace detection plate is designed for rapid detection of small volume samples. Supports simultaneous analysis of up to 16 samples. Users can quickly and conveniently clear the tested samples for continuous measurement.



Wide and accurate lighting system:
Using a flickering xenon lamp as the light source, wavelength selection is carried out through an advanced grating monochromator system. The wavelength detection range is 200~1100 nm, and full spectrum scanning can be performed in 1 nm steps. The self check function of the instrument during startup checks key components such as the light source, detector, and carrier position to ensure stable and reliable operation of the instrument.



Equipped with incubation and oscillation functions:
Equipped with incubation function, the average temperature difference between wells is ±0.5°C at room temperature +4°C~65°C and 37°C. The oscillation frequency of linear oscillation mode is divided into low, medium, and high gears for users to choose from.

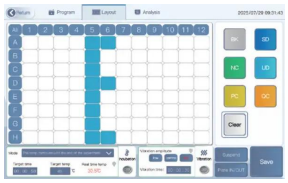
Powerful and rich software programs:
A fully functional data analysis software that can meet the vast majority of data processing needs. Built in multiple data processing methods, including quantitative curve fitting, qualitative analysis, dynamic calculation, custom equations, and four parameter fitting, and supports customized services for customers. Calculation methods can be added according to customer needs. Data can be exported to Excel with just one click, and detailed result reports can also be generated through built-in tools.

Simple and convenient operation mode:
10.1-inch touchscreen display, capable of completing the entire testing process on a single machine, easy to operate, simple and user-friendly, with a graphical interface design and simple program editing. Various testing programs can be preset. 2 USB ports and 1 Ethernet port, supporting USB data export or connection to a computer.

User Interface:


Main Interface


Parameter settings


Board layout interface


Settings interface

Biolab Scientific Ltd.
Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com