



FLUORESCENCE SPECTROPHOTOMETER

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Biolab Fluorescence spectrophotometers incorporate excellent wavelength accuracy and highly reliable optical performance to give highest sensitivity, reproducibility and accuracy. Xenon lamp minimizes photobleaching of samples thus maintaining sample integrity and produces high signal to noise ratio to give unmatched performance even with trace samples. Ergonomic with a longer lamp life, it gives more quality for your money.

Used in It serves a wide range of demanding clinical research, molecular biology, pharmaceutical and industrial applications..

BSFL-101 FLUORESCENCE SPECTROPHOTOMETER



USB Port: Connect to computer and operate through PC software (PC software is standard)

SPECIFICATIONS

Model	BSFL-101
Wavelength Range	190-1100nm
Wavelength Accuracy	± 2 nm
Wavelength Repeatability	≤ 1 nm
Spectral Bandwidth	10 nm
Light Source	LED
Excitation Optical Filter	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 420nm, 475nm, 525nm
Excitation Wavelength Range	360-600 nm
Emission Wavelength Range	360-650 nm
Linearity	$\leq \pm 3.0\%$
Monochromator	Czerny Turner Diffraction Grating
Gross Dimension (W/D/H)	450x420x280 mm
Weight (Net/Gross)	9/15 kg
Power	40 W
Power Supply	220V 50Hz

BSFL-102 FLUORESCENCE SPECTROPHOTOMETER



Parallel Port: Connect to micro thermal printer to print test data(Micro thermal printer is optional)

SPECIFICATIONS

Model	BSFL-102
Wavelength Range	190-1100nm
Wavelength Accuracy	±2 nm
Wavelength Repeatability	≤1 nm
Spectral Bandwidth	10 nm
Light Source	LED
Excitation Optical Filter	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 405nm, 470nm, 515nm
Excitation Wavelength Range	360-600 nm
Emission Wavelength Range	360-650 nm
Linearity	≤±3.0%
Monochromator	Czerny Turner Diffraction Grating
Gross Dimension (W/D/H)	450x420x280 mm
Weight (Net/Gross)	9/15 kg
Power	40 W
Power Supply	220V±22V 50Hz±1Hz

BSFL-103 FLUORESCENCE SPECTROPHOTOMETER



Powerful Software Functions

SPECIFICATIONS

Model	BSFL-103
Wavelength Accuracy	±1 nm
Wavelength Repeatability	≤0.5 nm
Spectral Bandwidth	10 nm
Stability	Better than 1.5% per 10 min
Light Source	Xenon Lamp
Excitation Optical Filter	Interference optional filter of central wavelength at 365nm, optional interference filter of 25mm diameter of wavelength range 250-700nm
Excitation Wavelength Range	250-700 nm
Emission Wavelength Range	200-900 nm
Linearity	R ≥ 0.995
Response Time	0.1-4 sec
Monochromator	Czerny Turner Diffraction Grating
Gross Dimension (W/D/H)	380x440x240 mm
Weight (Net/Gross)	14 kg
Power	190 W
Power Supply	220V±22V, 50Hz±1Hz

BSFL-104 DUAL CHANNEL FLUOROMETER



Adopting 5-inch touch high-definition screen, exquisite display screen, user-friendly operation

Quickly and accurately read the results within about 3 seconds, can be used to quantify DNA, RNA and proteins

The minimum detection limit can reach 0.005 ng/μL (dsDNA)

Using two fluorescence channels, red and blue light can be detected separately 5 orders of magnitude response range

It is suitable for nucleic acid or protein samples that are difficult to measure with ordinary photometers, and can be used in precision measurement experiments such as qPCR, PCR cloning, transfection, and new generation sequencing

Compatible with common nucleic acid protein quantification kits on the market

SPECIFICATIONS

Model	BSFL-104
Light source	Blue Peak ~ 470 nm Red Peak ~ 635 nm
Excitation filter	Blue : 430-495 nm Red : 604-644 nm
Emission filter	Green : 510-580 nm Red : 672-712 nm
Detector Photodiode	Measurement capability 300 ~ 1000 nm
Flux	2
Calibration Type	1 or 3 point standards
Sample tube type	0.5 mL PCR tube
Linearity	R ² ≥ 0.995
Repeatability	≤ 1.5 %
Stability	≤ 1.5 %

Detection limit	0.005 ng/uL (dsDNA HS)
Sensitivity	0.1 pg
Detection time	≤ 3 seconds/sample
Data storage capacity	10000 programs
External interface	USB (Type A) x 2 USB (Type B) x 1 LAN x 1
Dimensions(W × D × H)	194 mm x 155 mm x 73 mm
Net weight (kg)	0.9 kg
Power Supply	AC 100 ~ 240 V, 50/60 Hz DC 9 V 1.5 A



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