



## 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..

## 100 FLUORESCENCE SPECTROPHOTOMETER



Wavelength range: 250-700 nm

Sensitivity: S/N $\geq$ 150

Wavelength accuracy:  $\pm 1$ nm at spectral bandwidth of 10nm

Unparalleled detection Limit: With 150 Watts Xenon lamp, it offer higher signal to noise ratio, which provide better capabilities for trace sample measurement.

Highly reliable optical performance: The 1200 lines/mm Czerny Turner Diffraction Grating for the highest sensitivity, accuracy and reproducibility

Easy software Interface: Data Collection and Analysis software offers a comprehensive solution for data collection and analysis such as scan, time drive, and ratio Data Collection directly from the applications menu. Outstanding durability and reliability

Drastically reduced photobleaching of samples: Unlike conventional light sources, the improved Xenon lamp minimizes photobleaching of samples, which maintains the integrity of the sample; hence delivers accurate and uncompromised results.

RS232 interface

It gives you the low cost of ownership by offering an exceptionally long lifetime of 2.8 billion flashes and the lamp typically will be remain active up to next 10 years which will save your money.

Eight stage adjustable sensitivity, real time display of fluorescence reading with concentration printout

Standard Accessories: Power cord, fuse, 10mm quartz fluorescence cuvette

## SPECIFICATIONS

Model	BSFL-101	BSFL-102	BSFL-103
Wavelength Range	190-1100nm		-
Wavelength Accuracy	$\pm 2$ nm		$\pm 1$ nm
Wavelength Repeatability	$\leq 1$ nm		$\leq 0.5$ nm
Spectral Bandwidth		10 nm	
Light Source	LED		Xenon Lamp
Excitation Optical Filter	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 420nm, 475nm, 525nm	Interference optional filter of central wavelength at 365nm, optional central wavelength of 365nm, 405nm, 470nm, 515nm	Interference optional filter of central wavelength at 365nm, optional interference filter of 25mm diameter of wavelength range 250-700nm
Excitation Wavelength Range	360-600 nm		250-700 nm
Emission Wavelength Range	360-650 nm		200-900 nm
Linearity	$\leq \pm 3.0\%$		$R \geq 0.995$
Monochromator	Czerny Turner Diffraction Grating		
Gross Dimension (W/D/H)	450x420x280 mm		380x440x240 mm
Weight (Net/Gross)	9/15 kg		14 kg

Power	40 W		190 W
Power Supply	220V 50Hz	220V±22V 50Hz±1Hz	220V±22V, 50Hz±1Hz
Stability	-	-	Better than 1.5% per 10 min
Response Time	-	-	0.1-4 sec



BSFL-101



BSFL-102



BSFL-103



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