BioLAB

PRODUCT CATALOG

DOUBLE BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BFP-101

CE ISO9001 CERTIFIED

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DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BFP-101

UV/VIS SPECTROPHOTOMETER

Research grade double beam, double monochromator UV/VIS spectrophotometer.
Fully PC control measurement with powerful software function and easy operation.
Super low stray light, direct determination of high concentration sample, without the need of dilution.
Six-step variable spectral bandwidth: 0.1 nm, 0.2 nm, 0.5 nm, 1.0 nm, 2.0 nm.
Spectrum scan can be made at any wavelength range in 190~1100 nm, with the minimum sampling interval of 0.02 nm.
Rich data processing functions, such as spectrum conversion, superposition, derivation, peak-picking, curve smoothing etc.
Multi-wavelength determination in photometric mode. User defined arithmetic to the measured data can be made and stored.
Various methods for calibration curve establishment in quantitative measurement

SPECIFICATIONS

Model	BFP-101
Wavelength Range	190-1100nm
Spectral Bandwidth	0.1 nm, 0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm variable
Wavelength Accuracy	±0.3nm
Working Mode	T, A, C, E
Wavelength Reproducibility	0.1 nm
Photometric Accuracy	±0.3%T (0~100%T)
Photometric Reproducibility	0.1%T
Baseline Flatness	±0.0008 Abs
Photometric Range	-5 Abs ~ 5 Abs
Stray Light	≤0.001%T (220 nm NaI, 360 nm $NaNO_2$)
Stability	0.0002 Abs/h (at 500 nm, after warming up)
Detector	High performance PMT and silicon photodiode
Light Source	Famous brand tungsten and deuterium lamp
Power	AC 220V/50Hz, 400W
Dimensions	73 x 53 x 23 cm
Weight	40 kg
Alt Name	UV/VIS Spectrophotometer

FEATURES

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Six-step variable spectral bandwidth: 0.1 nm, 0.2 nm, 0.5 nm, 1.0 nm, 2.0 nm.
Spectrum scan can be made at any wavelength range in 190~1100 nm, with the minimum sampling interval of 0.02 nm.
Rich data processing functions, such as spectrum conversion, superposition, derivation, peak-picking, curve smoothing etc.
Multi-wavelength determination in photometric mode. User defined arithmetic to the measured data can be made and stored.
Various methods for calibration curve establishment in quantitative measurement mode, such as single-wavelength method, double-wavelength method, triple-wavelength method, user-defined methods etc. User-defined methods can be saved for later use.
Flexible parameter setting in kinetics measurement mode to perform time scan at a fixed wavelength, with the same data processing functions of spectrum scan.
Built-in DNA/Protein module for direct DNA/Protein concentration measurement.
Wide sample compartment, to accommodate cell size from 5 mm to 100 mm.

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