BIOSPECTRIX PVT LTD

MICRO VOLUME SPECTROPHOTOMETER



BS-MICRO-700

The BS-MICRO-700 ultra-micro spectrophotometer does not require a computer. It is a fixed wavelength (260nm, 280nm) micro spectrophotometer that can quickly and accurately detect nucleic acids, proteins and cell solutions. It is equipped with a colorimetric dish mode to detect the concentration of culture medium such as bacteria and supports fluorescence detection (optional). With a fluorescence quantitative analysis kit, the concentration of DNA,RNA and protein can be accurately determined through the specific combination of fluorescent dyes and target substances. Nucleic acid testing requires only 0.5 to 2 µL of sample per measurement.

FEATURES

- Uses LED cold light source, light stable and economical.
- Unique motor control technology using 3 optical path detection mode, providing stability, repeatability and linearity.
- Samples do not need dilution; the concentration range is more than 150 times that of conventional UV-Visible photometers.
- Easy-to-use data-to-printer option allows reports to be printed directly from the built-in printer.
- Independently developed Android operating system with 7-inch capacitive touch screen; no computer required, single sample detection supported.
- OD600 bacterial solution and microbial detection with OD600 optical path detection system; convenient for bacteria, microorganisms and other culture solution concentration detection.

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TECHNICAL PARAMETERS

Model	BSMICRO-700
wavelength coverage	(260nm, 280nm)
optical distance	0.05mm (high concentration measurement) 0.2mm, 1.0mm (ordinary concentration measurement)
Number of detection channels	1
detector	Ultraviolet silicon photocell
Nucleic acid detection range	0-5000ng/ul (dsDNA)
Protein detection range	----
OD600 absorbance range	0~6.000Abs
OD600 absorbance stability	[0,3]<0.5%,[3,4]≤2%
OD600 absorbance accuracy	[0,2]≤0.005A, [2,3]≤1%,[3,4] ≤ 2%
OD600 absorbance repeatability	[0,3]<0.5%,[3,4)≤2%
Fluorescence sensitivity	----
Fluorescence linearity	----
Sample volume requirement	0.5 ~2ul
Light absorption range	0.04-300A (equivalent to 10mm)
Absorbance accuracy	0.003Abs (0.2mm optical path)
Spectral resolution	----
Photometric accuracy	±0.005A or 1% soil
Wavelength accuracy	±1nm or less
Wavelength reproducibility	<±0.2nm
Sample wavelength scanning	----
Base measurement only	0.5~2ul
Sample base material	Quartz fiber and stainless steel
Detection time	<6S
Standby power consumption	5W
Data output mode	USB
light source	LED
printer	yes
Power adapter	24V DC
Power dissipation	25W
Overall dimension	W200*D260*H165mm
weight	4.5Kg