

MICRO VOLUME SPECTROPHOTOMETER



BR-MICRO-700 SPECTROPHOTOMETER

Ultra micro spectrophotometer does not require a computer with a fixed wavelength (260nm, 280nm) microspectrophotometer. It can quickly and accurately detect nucleic acid, protein and cell solution, and is equipped with a colorimetric dish mode to detect the concentration of culture medium such as bacteria and 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 2ul of samples per measurement.

FEATURES:

- Use led cold light source, light stable, economical;
- Unique motor control technology, using "3" optical path detection mode, stability, repeatability, linearity
- The sample does not need to be diluted, and the concentration range of the measured sample is more than 150 times that of the conventional ultraviolet-visible photometer;
- With the easy-to-use data-to-printer option, you can print reports directly from the built-in printer;
- Independently developed Android operating system, 7 inch capacitive touch screen, no computer online, single can be detected;
- OD600 bacterial solution, microbial detection: with OD600 optical path detection system, than the dish mode is convenient for bacteria, microorganisms and other culture solution concentration detection.
- Strong repeatability and high linearity

TECHNICAL PARAMETERS

MODEL	BR-MICRO-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	-
Luorescence linearity	-
Sample volume requiremen	0.5 ~2ul
Light absorption range	0.04-300A (equivalent to 10mm)
Absorbance accuracy	0.003Abs (0.2mm optical path)
Absorbance accuracy	±1%(7.332Abs at 260nm)
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

BR BIOCHEM LIFE SCIENCES PVT. LTD.

06, S.F. Gopal Nagar , Fateh Nagar, New Delhi-110018 ,India

Ph: +91 11 43033662/4, +91 8860082777

EMAIL: info@brbls.com | www.brbls.com



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