

BGNANO-603

Micro-Spectrophotometers

The BGNANO-603 launched by Bio-gener is a full-wavelength micro-spectrophotometer. It can quickly and accurately detect nucleic acids, proteins and cell solutions. It is also equipped with a cuvette mode to detect the concentration of bacterial culture fluids. All steps are simple and fast. This device can be used in a variety of fields such as clinical diagnosis, blood concentration detection, forensic identification, environmental microbiology detection, food safety, molecular biology research, etc.

- ① 7-inch capacitive TFT screen, multi-touch, intuitive interface, simple operation.
- ② It has its own automatic detection function, which significantly improves the detection efficiency.
- ③ The sample volume required for the test is only 0.5 to 2ul, and it can be recovered after the measurement.
- ④ With high-precision motor drive, the accuracy of the optical path reaches 0.001mm, and the absorbance detection repeatability is high.



Adopting Android operating system, 7-inch capacitive touch screen, no need for computer online, stand-alone can be detected



Rapid and accurate detection of nucleic acids, proteins and cellular solutions with only 0.5-2ul of sample.



Equipped with OD600 optical path detection system, convenient for bacteria, microorganisms and other culture solution concentration detection

Parameters

Model/Specification	
Name	Micro-Spectrophotometers
Model No.	BGNANO-603
Volume	0.5ul-2ul
Dimension	318×210×188mm (L×W×H)
Weight	4.7kg
Optical Performance	
Optical Path	0.03mm、0.05mm、0.1mm、0.2mm、1mm
Light Source	Xenon flash lamp/number of flashes
Detector Type	2048 pixel linear array CCD
Wavelength Range	190nm-850nm
Accuracy	±1nm
Performance Parameters	
Spectral Resolution	≤3nm (FWHM@Hg253.7nm)
Absorption Accuracy	0.002Abs (1mm optical path)
Absorption Accuracy	±1% (7.332Abs absorbance @ 260nm)
Absorbance Range	0.04-750 (at 260nm wavelength, equivalent to 10mm optical path)
Concentration Range	2ng/ul dsDNA-37500ng/ul dsDNA
Detection Time	<6s
OD600	
Light Source	Single color LED
Absorbance Range	0-4.000Abs
Absorbance Stability	(0,3)≤0.5%, (3,4)≤1.5%
Repeatability	(0,3)≤0.5%, (3,4)≤1.5%
Absorption Accuracy	(0,2)≤0.005A, (2,3)≤1%, (3,4)≤2%
Heating Temperature	37°C±0.5°C
Stirring Speed	12 adjustable speeds, 100-1200rpm
Other Performance	
Printing	Built-in thermal printer
Communication	USB2.0 x2
Date Export Formats	xls, csv, txt, jpg, png
Experimental Data	> 10,000
Input Voltage	DC12V 5A
Power Supply	60W

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