OPTOSKY Spectroscopy Solutions

Datasheet

Micro-spectrophotometer | Nanobio-300

Features

- Direct detection of high concentration samples without dilution, maximum detection concentration up to 4500 ng/μL (dsDNA)
- Android system, 7-inch capacitive touch screen, optimized APP software.
- Newly designed OD600 optical path detection system, new cuvette mode,for bacteria concentration detection.
- LED light source, long life component.
- High resolution CCD array detector, 5 s can complete the detection and display the results.
- Long life pulse xenon lamp light source.
- The test data is transferred to the computer via USB for easy sorting and analysis.
- The built-in printer can print the report directly.

Application

- 260 nm:dsDNA、ssDNA、RNA
- 280 nm:A280、BSA、lgG、 Lysozyme
- 562 nm: BCA
- 595 nm: Bradford
- 600 nm: Bacterial concentration
- 650 nm: Lowry

Description

Nanobio-300 is a UV-Vis micro-spectrophotometer with full range of wavelength (200-800nm). Not only can it quickly and accurately detect nucleic acids, proteins and cell solutions with only 2 μl, but it is also equipped with a cuvette mode to detect the concentration of bacteria and other culture solutions, and then determine the growth of bacteria. Nano-300 is added a new function of bacterium cell concentration test (OD600). Nanobio-300 uses 7-inch touch screen and is integrated with Android system, which do not need to connect to a computer. It can be efficiently and conveniently applied to various fields of life science, and has become a routine configuration instrument in many laboratories.

Model	Feature
Nanobio-300	CCDarray detector, high concentration direct detection, cuvette mode

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

1.Performance

	Nanobio-300	Nanobio-200	Nanobio-500
Wavelength range	200~800 nm	260 nm, 280 nm	200~800 nm
Minimum sample size	0.5~2.0 μL	1.0~2.0 μL	0.5~2.0 μL
Path length	0.2 mm 1.0 mm	0.5 mm	0.05 / 0.2 mm 1.0 mm
Light source	Xenon flash lamp	UV LED	Xenon flash lamp
Detector type	2048-linear CCD array	UV-silicon photocell	2048-linear CCD array
Wavelength accuracy	1 nm	----	1 nm
Spectral resolution	≤ 3 nm	≤ 8 nm	≤3 nm
Absorbance precision	0.003 Abs	0.005 Abs	0.003 Abs
Absorbance accuracy	1 % (7.332 Abs at 260 nm)	2 % (7.332 Abs at 260 nm)	1 % (7.332 Abs at 260 nm)
Absorbance range	0.04~90 A	0.2~50 A	0.04~300 A
Nucleic acid detection range	2~4500 ng/μL (dsDNA)	10~2500 ng/μL (dsDNA)	2~15000 ng/μL (dsDNA)
Measurement time	< 5 s	< 6 s	< 6 s
Dimension (W×D×H) mm	210×268×181	208×280×186	208×320×186
Weight	2.8 kg	2.0 kg	3.6 kg
Sample pedestal material	Aluminum alloy and quartz fiber	Aluminum alloy and quartz fiber	Aluminum alloy and quartz fiber
Operating voltage	DC 24 V 2 A	DC 24 V 2 A	DC 24 V 2 A
Operating power	25 W	25 W	25 W
Standby power	5 W	5 W	5 W
Software compatibility	Android system	Android system	Android system

Selection guide

	Nanobio-300	Nanobio-200	Nanobio-500
Wavelength range	200~800 nm	200~800 nm	260 nm, 280 nm
Nucleic acid test dsDNA (ng/μL)	2~4500	2~15000	10~2500
A280 protein BSA (mg/mL)	0.1~135	0.1~450	0.5~75
Colorimetry	●	●	
Full wavelength scan	●	●	
OD600	●	●	●
Fluorometer		●	
Touch screen	●	●	●

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588