

UltraNano Plus

Micro Spectrophotometer



Product Description

UltraNano Plus does not require a computer equipped full wavelength (190-850nm) micro spectrophotometer. It can quickly and accurately detect nucleic acids, proteins and cell solutions. And euipped with a colorimetric dish mode for detecting bacterial and other culture medium concentrations, with a minimum limit of 0.5ng/uL (dsDNA).

The sample size required for each measurement of nucleic acid testing is only 0.5 to 2.0uL, and the sample can be directly placed on the sampling table without the need for accesories such as colorimetric cups or capillaries. After the measurement is completed, You can choose to directly wipe off the sample or use a pipette to recover the sample. All steps are simple, fast, and completed in one time. It can be applied in various fields such as clinical disese diagnosis, blood transfusion safety, forensic identification, environmental microbiology testing food safety monitoring and molecular biology research.

Product Feature

- Light source flicker: The flicker frequency of the ligh source is short, which increases the service life of the light source compared to traditional detection methods. The ligh intensity stimulation is small, and the test sample can be detected faster and is not easily degraded;
- Adopting 4 optical paths detection technology: unique motor control technology, By using "4" optical paths detection method, with better stability, repeatability, linearity, and larger measurement range;
- Sample contractiono: The sample does not need to be diluted, and the concentration range of the measurable sample is more than 50 times that of a conventional UV visible spectrophotometer;
- Fluorescence function: paired with fluorescence quantitative reagents, it can detect pg level concentration of dsDNA;
- Built-in printer: With a simple and easy-to-use data to printer option, you can directly print reports through the built-in printer;
- Operating system: An independently developed Android operating system with a 7-inch capacitive touch screen, which does not required a computer to be connected and can be tested on a single machine.

- it is more convenient to detect the concentration of bacterial, microorganisms, and other culture solutions than the dish mode.
- Strong repeatability and high linearity:

14000	
12000	
10000	
8000	
6000	
4000	
2000	
0	

Accessories

	Item No.
Ult	raNano Plus

Detection Mode Nucleic Acid Testing ADRO : 0.00 A280 0.00 A230 0.00 20.0 1824/281

Can quickly and accurately detectin nucleic acids.

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蛋白检测	
記旧 FetPoject	ID: 220420_1629
法章 0.00 ~~~~	
A280 0.00	**

Can quickly	an
detect	pro

Software Functions



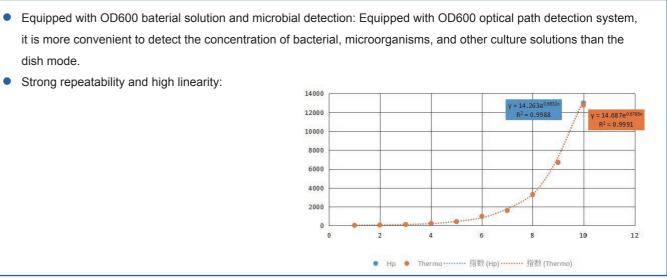
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12	28	E 0.00 101	
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	12	0.00	-0
	AZ	0.00	
	A260/42	0.00	
	A280/42	0.00	42
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< 核酸检测

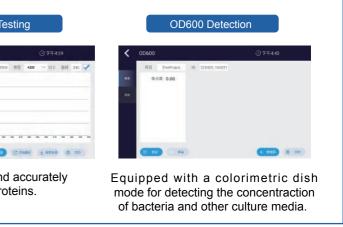
Measurement interface Fast and stable operation without delay.

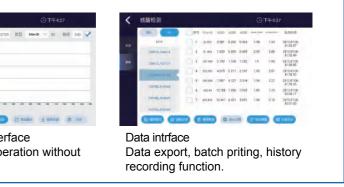
Main interface Simple and user-friendly interface





Description
Colorimetric dish
Colorimetric dish

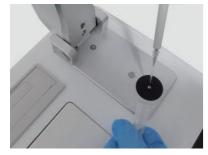




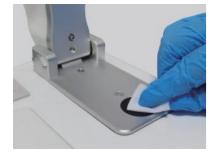


Operation Instruction

Micro detection



Before using the instrument, first use 0.5~2.0uL clean two sample stands and two light machine stands with ultrapure water or sample buffer solution, and wipe the solution clean with dust-free paper; Repeat at least 2 times.



After testing, use 0.5~2.0uL clean two sample holders and two light holders with ultrapure water, and wipe the solution clean with dust-free paper; 3 to 4 times.

Technical Specification

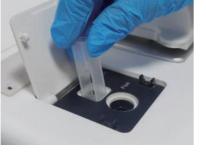
Suck 0.5~2.0uL sample buffer onto the testing machine base, lower the testing arm, click "blank" to obtain the baseline, and wipe it clean with dustfree paper after completion Colorimetric dish detection.

Suck 0.5~2.0uL sample solution onto

the testing machine base, lower the

testing arm, and click on "sample"

for testing.



Insert the OD600 detection cuvette solt and click on "sample" to test the absorbance of the sample.

Model	UltraNano Plus	
Sample Volume	0.5~2.0µL	
Optical Path	0.02mm, 0.05mm (high concentration measurement)	
Oplical Faili	0.2mm, 1.0mm (Ordinary concentration measurement)	
Light Source	Xenon flash lamp	
Detector	HAMAMATSU UV Enhanced CMOS Linear Array	
Wavelength Range	190~850 nm	
Wavelength Accuracy	±1 nm	
Spectral Resolution	< 1 nm	
Photometric Range	0.02~300A (Equivalent to 10mm)	
Photometric Accuracy	0.002Abs (0.2mm optical path)	
Aborbance Precision	±0.005A or ±1%	
Aborbance Accuracy	±1% (7.332Abs at 260nm)	

Protein Detection Range	
Detection T	ïme
	Linearity
Fluorometer	Repeatability
	Stability
OD600 Cuvette (45x12.5x12.5mm)	Abs Range
	Abs Stability
	Abs Repeatabilit
	Abs Presicion
	Temperature
Display	
Operating System	
Internal Storage	
Data Output	
Power Supply	

Model

Nucleic Acid Detection Range

Overall Dimension

Weight

Ultrassay BioTech Co., Ltd. RM 3018 Poly D9, No. 999 Luzhou Avenue, Baohe District, Hefei, Anhui, China Tel/Fax: 86-551-62881663 E-mail: info@ultrassay.com Website: http://ultrassay.com

UltraNano Plus
0~27,5000 ng/µL dsDNA
0.06~820mg/mL BSA
< 5 seconds
dsDNA: 0.5pg/µL
≤1.5%
≤1.5%
0~6.000Abs
(0,3)≤0.5%, (3,4)≤2%
(0,3)≤0.5%, (3,4)≤2%
(0,2)≤0.05A, (2,3)≤1%, (3,4)≤2%
37±0.5°C
7 inch, 1280x800 high-definition LCD capacitive touch screen
Android
32GB flash memory
USB, Built-in printer
AC110V~220V, 50/60Hz
200x260x165mm
5kg
200x260x165mm

