

ND-100/100C Ultra-micro ultraviolet-visible spectrophotometer

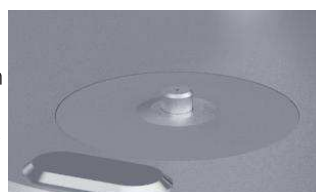
Life Science Instruments

Introduction

Ultra-micro ultraviolet-visible spectrophotometer is a full-wavelength ultra-micro ultraviolet-visible spectrophotometer, the micro detection mode can be used to detect nucleic acids, micro nucleic acid arrays, pure protein detection, labeled protein detection, protein quantitative detection, microbial cell culture detection and regular full-wavelength scanning. In the cuvette detection mode, nucleic acids, proteins, and microbial cells can be measured Cultivation and kinetic testing.

Characteristics:

1. By forming a liquid column, the sample required for one test is as low as 0.5ul, and the trace amount is detected, saving precious samples.
2. The detection concentration range is wide, and commonly used samples can be detected without dilution.
3. The machine does not need to be warmed up, it can be detected after starting up, and the single detection time is about 5 seconds, and the detection is fast.
4. Built-in software, easy and fast to operate, software running fast and stable, no delay, provide a stable user experience.
5. Small size, easy to carry, very suitable for field testing.
6. Can record all the data that the user tests, and has screenshot function, convenient for users to export precious data or delete data at any time. More than 10,000 data can be stored.
7. It can be quickly upgraded by U disk, which is convenient for the instrument to update the software.
8. With user management system, multi-user independent detection, independent management of data.
9. High-definition 7-inch display screen, using capacitance touch screen, full touch operation, can sense the touch of laboratory gloves, longer life and better experience.
10. Has power-on self-test function, it can quickly and accurately judge whether there are impurities in the detection platform when the machine is started up.
11. The material of the sample detection platform is stainless steel and quartz optical fiber, high strength and anti-corrosion.
12. With cuvette measurement function, the cuvette measurement provides stirring and heating auxiliary functions at the same time, which makes the cuvette detection more powerful and uses more detection scenarios.(ND-100C)
13. Support kinetic detection, kinetic detection provides users with an intuitive absorbance change curve, user-defined wavelength points to view the relationship between absorbance changes over time, and 100 kinetic programs can be built-in.(ND-100C)
14. Support colonies (OD600) detection, and the detection of colonies can be carried out in both cuvette and micro mode, which meets the different detection needs of users. (ND-100C)
15. The cuvette measuring hole has a dust-proof design, which can effectively prevent inaccurate measurement due to dust accumulation.(ND-100C)
16. USB can be connected to a printer, the output data is more intuitive and convenient.



Interface display



Main Interface



Measurement interface



Data output



Set interface

Operating instructions



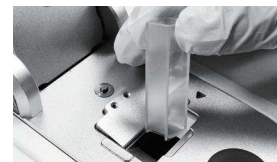
Lift the sample arm and add the sample to the detection base.



Lay down the sample arm and measure the sample according to the software interface.



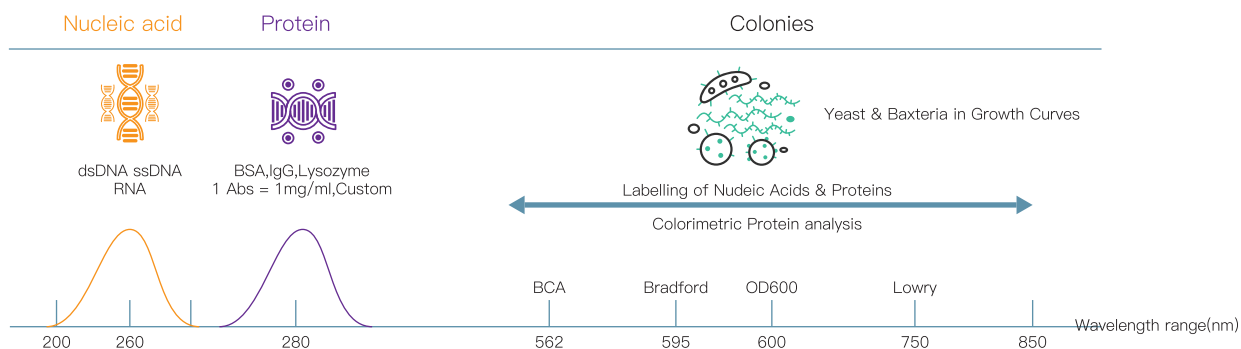
After the test is completed, clean the measuring platform with dust-free paper to avoid sample residue



Cuvette measurement: Put the cuvette into the cuvette slot and cover the measuring arm to test (ND-100C)

Application range

Ultra-micro ultraviolet-visible spectrophotometer is a very important analytical instrument, whether in the fields of scientific research such as physics, chemistry, biology, medicine, materials science, environmental science, or in modern chemical engineering, medicine, environmental testing, metallurgy Production and management departments, Ultra-micro ultraviolet-visible spectrophotometer have a wide range of important applications. Ultra-micro ultraviolet-visible spectrophotometer is to use spectrophotometry to quantitatively and qualitatively analyze substances, and is often used for nucleic acid, protein quantification and cell culture detection; Ultra-micro ultraviolet-visible spectrophotometer is already a conventional instrument in modern molecular biology laboratory.



Technical parameter

Model	ND-100/100C	Light absorption accuracy	0.002Abs (1mm)
Test sample capacity	0.5~2μl	Absorbance accuracy	1%(0.76Abs at 256nm)
Light source	Xenon lamp	Detection concentration range	2~15000ng/μl(dsDNA)
Detector	2048 linear CCD array	Sample base material	304 stainless steel and quartz optical fiber
Optical path	≤0.7mm	Measure time	About 5s
Wavelength range	200~850nm	Power	20W
Wavelength accuracy	<1nm	Power Adapter	12V , 5A
Wavelength resolution	≤2nm	Dimensions	W.197×D.327×H.181mm
Light absorption range	0.04~300Abs (10mm)	Net weight	3.1kgs

Mode	ND-100C	Heating range of cuvette	37±0.5℃
Cuvette specifications	12.5mm(L)×12.5mm(W)×45mm(H)	Stirring speed of cuvette	High and low two modes
Cuvette optical path length	10, 5, 2, 1mm	Detection concentration range of cuvette	0.2~750ng/ul(dsDNA)
Cuvette light speed height	6mm	Light absorption range of cuvette	0.004~25Abs (10mm)