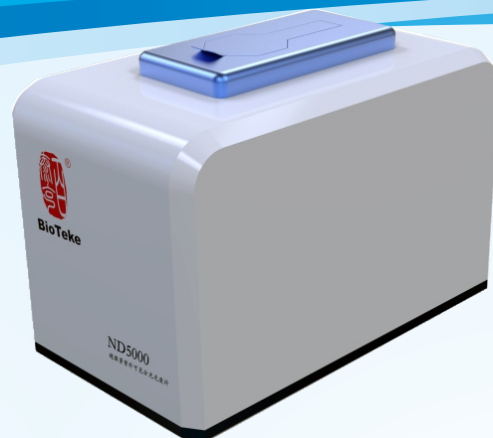




BioTeke



ND5000

Micro UV-Vis Spectrophotometer

Product description

Micro UV-Vis Spectrophotometer(ND5000) is a new full-wavelength spectrophotometer with high accuracy and reproducibility (wavelength range: 190-850 nm), it can detect nucleic acid concentration, purity and salinity with only a small volume of about 2 ul. It uses full wavelength, xenon lamp source and fixed optical path. Its quality is stable and has long life. It does not need cuvette, capillary or other positioning equipment. It is easy to operate and clean.

Product Features

- Accurate light source analysis, using argon flash illumination, analysis with linear CCD array and special software.
- The sample volume is small, 0.5-2ul can quickly measure the purity and concentration of the sample.
- Wide range of applications, mainly used to detect the concentration of nucleic acids, proteins, suspension cells and other samples.
- The measurement period is short, single measurement time $\leq 4s$.
- Portable design, support for export of multiple file formats, convenient for experimenters to analyze data.
- Automatic data storage, new "history" function, automatic recording of experimental data.

Application range

Sample type	Minimum detection limit	Maximum detection limit	Precision
Nucleic Acids	2 ng/ul	≤3000 ng/ul (dsDNA)	2-100 ng/ul ±2 ng/ul
Protein A180	0.1 ng/ul	400mg/ml	0.10-10mg/ml

Instrument specifications

1	Sample volume requirement	0.5-2.0uL
2	Optical path	0.5mm
3	Wavelength range	190-850nm
4	Wavelength reproducibility	+/-0.5nm
5	Measurement cycle time	single wavelength measurement ≤ 4s
6	Light source	Xenon Lamp
7	Detector	3864 unit linear silicon CCD array
8	Warm-up time	4 seconds
9	Software operating platform	Windows XP (32bit), Windows 7 (32/64bit)
10	Data output mode	through the USB interface
11	Wavelength accuracy	1nm
12	Wavelength resolution	2nm (FWHM at Hg 546nm)
13	Absorbance accuracy	0.002Abs
14	Absorbance accuracy	1% (0.76 absorbance at 350nm)
15	Absorbance range	0.002-75 (equivalent to 10mm light path)
16	Sample holder material	quartz fiber and stainless steel