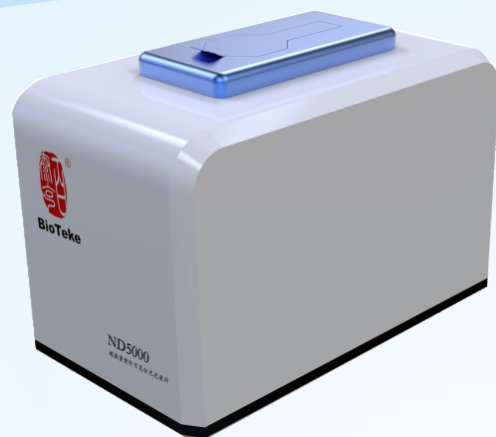




BioTeke

ND5000



Ultra-micro UV-visible spectrophotometer

Product description

The ND5000 (Ultra Micro Visible Spectrophotometer) is a high-precision, high-reproducibility new full-wavelength spectrophotometer (wavelength range: 190~850nm), which can be measured with only a small sample of about 2ul. No need to use cuvettes, capillaries or other positioning equipment during sample quantification, and it is easy to operate and easy to clean.

This instrument can be used not only to measure DNA, RNA concentration, but also to measure protein concentration; it can also be used in other applications of spectrometers.

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	argon flash
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