Micro Drop ultramicro spectrophotometer

MicroDrop S ultramicro spectrophotometer

- 7-nich big touch screen,visual interface
- Full spectrum wave 185-910nm
- Minimum measurable volume is 0.5ul, which saves your precious samples
- Wide range of measuring concentration:2-15,000ng/μL(dsDNA)

MicroDrop Plus ultramicro spectrophotometer

- Full spectrum wave 185-910 nm
- Double measuring modes:pedestal mode & cuvette mode.
- 7-nich big touch screen,visual interface
- Sample saving:only 0.5uL of sample is required for each measurement
- Wide range of measuring concentration:2-15,000ng/μL(dsDNA)

Micro Drop ultramicro spectrophotometer

MicroDrop S ultramicro spectrophotometer

MicroDrop S is a full spectrum ultramicro spectrophotometer (185~910nm). It is easy to operate. It dosen't require expensive consumables, and is widely used in the measurement of DNA, RNA, Protein and so on. It is also suitable for absorbance measuring in general substance analysis.

Micro drop S

Product features

Sensitivity
The 2048 linear CCD measurement unit of the latest generation has more sensitivity and accuracy.

Repeatability
Stepper motor combines the unique DPTL technology to achieve the optical path accuracy of 0.001 mm and achieve the repeatability of absorbance measurement.

Stability
Both the long life xenon lamp and the lifting measurement pedestal with the structure of sliding bearing ensure the stability of measurement and the life of instrument.

Intelligent Auto-measurement
When you close the upper arm after sampling, you don't have to click the icon to complete the measurement.This automatic program could save your valuable time.

Full spectrum wave
The wave range is 185-910 nm. It can measure more kinds of samples and wider range of near infrared wave. It can meet the diverse measurement requirements.

Product application

- **UV measuring**
  Measurement of Absorption Value of Samples under conventional Ultraviolet Wave
- **Nucleic acid measuring**
  Measurement of the concentration of different types of nucleic acids such as dsDNA, ssDNA and RNA, so as measuring the absorbance at 260 and 280 nm
- **Protein measuring**
  The absorbance of purified protein at 280nm is measured to quantify the concentration of the protein by the analysis of BCA, Bradford, Lowry or Pierce 660nm gills method.
- **Full-wave scanning**
  185-910nm full-wave scanning, showing absorption curve

Micro Drop ultramicro spectrophotometer

MicroDrop Plus ultramicro spectrophotometer

Microdrop plus is a ultramicro-spectrophotometer which can measure the optical absorption of a micro volume of sample srapidly and accurately, and is easy to use due to its big touch screen and visual interface.It is commonly used to measure the concentration of DNA/RNA/protein and other bio-molecular samples, the sample loading requirement of each measurement is low and the measuring concentration range is wide.

Micro drop plus

Product features

Easy to operate

With a large touch screen, it can be used without connecting to a computer. The graphical interface intuitively displays operation options and test results, and data can be stored internally in the instrument or exported directly.

Full spectrum wave

The wave range is 185-910 nm. It can measure more kinds of samples and wider range of near infrared wave.It can meet the diverse measurement requirements.

Quick and convenient

Applying the powerful optical path automatic adjustment technology. Even for the high concentration samples, you need no dilute operation to measure accurately.

Dual detection mode

The base mode can detect microsamples ranging from 0.5 to 2uL; the cuvette mode can detect larger volume samples using standard 10mm cuvettes, and can be set for constant temperature heating or magnetic stirring.

Sensitivity

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Product application

- **UV measuring**
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- **Protein measuring**
  The absorbance of purified protein at 280nm is measured to quantify the concentration of the protein by the analysis of BCA, Bradford, Lowry or Pierce 660nm gills method.
- **measurement of Bacterial Solution/Suspension Cell Concentration**
  Measurement of OD600 value of bacterial fluid and monitoring of suspension cells
- **Dynamic measuring**
  Determination of isokinetic experiments on enzyme activity and curve
- **Full-wave scanning**
  185-910nm full-wave scanning, showing absorption curve

Technical parameters

	Micro drop S	Micro drop plus
Light source	Longevity flashing xenon lamp	
Min Sample Size (μl)	2048-element linear silicon CCD array	
Operation mode	Touch screen/computer operation	
Data shows	Display on the computer or local screen	
Data storage	Large-capacity memory≥8000 sets of data	
Data Interface	USB	
Loading sample volume	0.5-2μL	
Wave accuracy	1mm	
Waverange	185-910nm	
Optical path length	±1nm	
Resolution	≤1.8 (FWHM at Hg 253.7nm)	
Precision of absorption	0.002Abs (lmm optical path length)	
Accuracy of absorption	3% (0.65Abs at 350nm)	
Min test concentration	2ng/μL (dsDNA)	
Max test concentration	15,000ng/μL (dsDNA)	
Measuringspeed	<5s	
Temp. control accuracy	/	37±0.5 °C
Stirringspeed	/	150-850rpm
Optical path	/	10, 5, 2, 1mm
Min test concentration	/	0.4ng/μL (dsDNA)
Max test concentration	/	750ng/μL (dsDNA)
Power supply	AC110V-220V 50Hz/60Hz Power adapter	
Measurements	255*187*222mm	
Weight	3.8kg	

Ordering information

Product Number	Product Name	Product model
58102001	Ultramicro-spectrophotometer	Micro Drop S
58L01001	Ultramicro-spectrophotometer	Micro Drop plus
Accessories (optional)		
58601021	Quartz cuvette	
58601031	Delicate paper	
72441011	Genex0.1-2.5μl pipette	
72441031	Genex0.5-10μl pipette	

BIO-DL Corporation

BIO-DL CORPORATION
Web: www.bio-dl.com
Email: leon@bio-dl.com
Hotline: 4008-216-837