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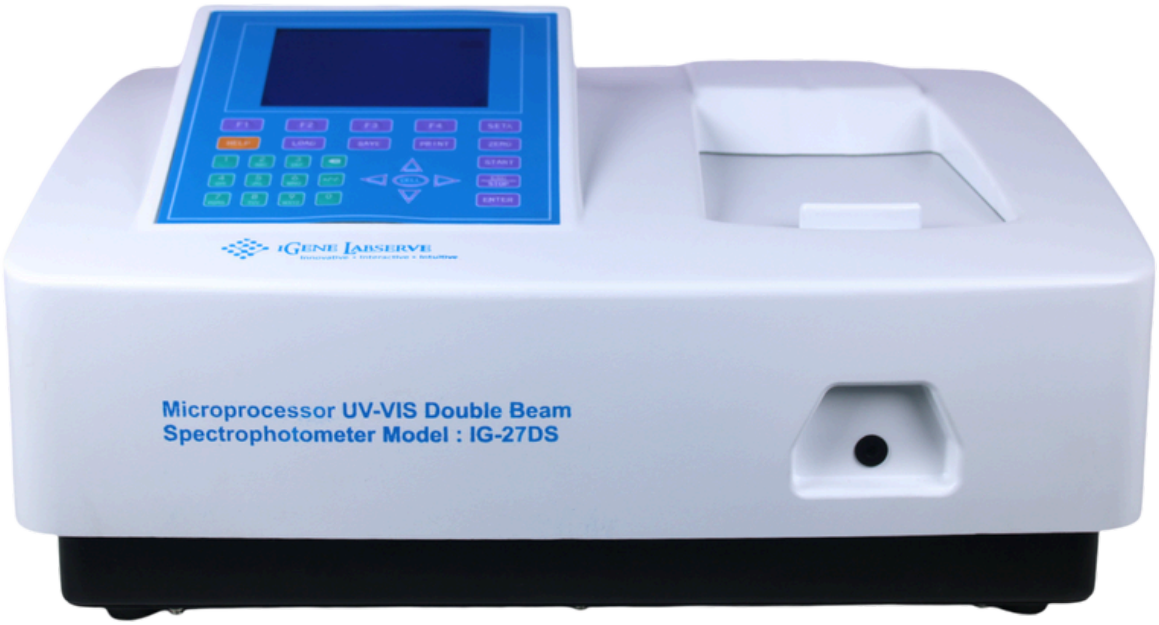
UV-VIS DOUBLE BEAM SPECTROPHOTOMETER IG-27DS



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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

DESCRIPTION

The IG-27DS spectrophotometer measures the amount of light that a sample absorbs by passing a light beam through it. These instruments are used to measure the concentration of any unknown solution and monitor absorption accuracy throughout production.

KEY FEATURES

- Wide Wavelength range, satisfying requirements of various fields.
- Fully automated design, realizing the simplest measurement & as per the requirement of pharmacopoeia.
- Upgradable to 8 samples to be measured at one time.
- Automatic change-over between T lamp & D2 lamp.
- Optimized optics and large-scale integrated circuits design, light source and receiver from world-famous measurement methods all add up to high performance and reliability.
- Rich measurement methods: wavelength scan, time scan multi- wavelength determination, multi-order derivative determination, double-wavelength methods triple-wavelength methods etc., meet different measurement requirements.
- Data Output can be obtained via a printer port. Parameters and data can be saved for the user's convenience.
- PC controller measurement can be achieved for more accurate and flexible requirements.
- Glass Cell: 4 Nos
- Quartz Cell: 2 Nos
- Software, Instrument Cover, USB Cable, Software Manual, Instrument Manual

MEASUREMENT

- **Basic Mode**

To measure the absorbance and transmittance

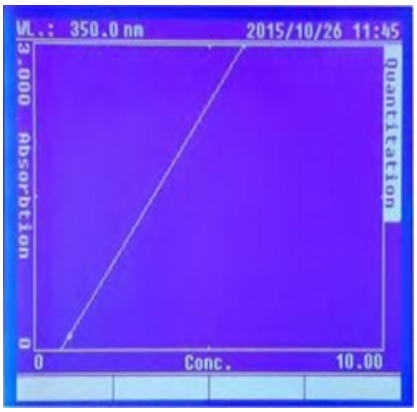
- **Quantitative**
  - Coefficient Method
  - Standard Curve Up to 10 Standard samples may be used to establish a Curve. Four methods for fitting a curve through the calibration points: Linear fit. Linear fit through zero, square fit and cubic fit.
- **DNA/Protein Test**

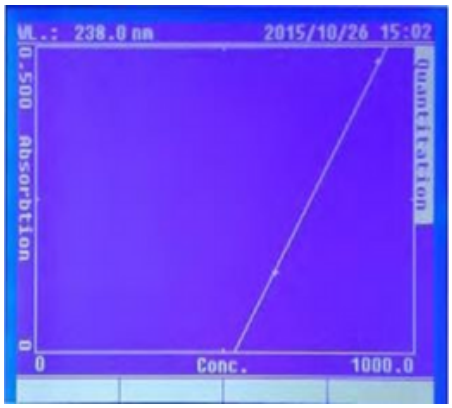
Concentration and DNA purity are quickly and easily calculated: Absorbance rations 260 nm /280 nm with optional subtracted absorbance at 320 nm. DNA concentration = 62.9 X A260 - 36.0 X A280

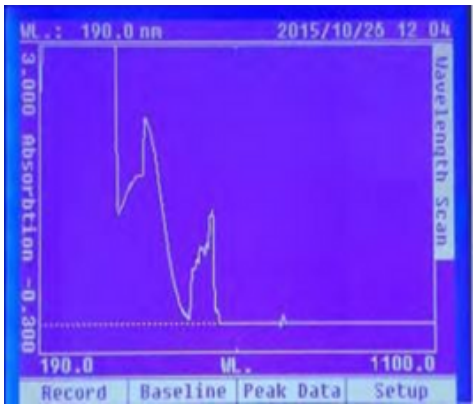
Protein concentration = 1552 x A260 - 757.3 x A280

- **Wavelength Scan**
  - High, Medium and low scan speeds are available. 100 to 3600 nm/min
  - Wavelengths are scanned from high to low so that the instrument waits at high wavelength and it minimizes the degradation of UV-sensitive samples.
- **Kinetics**

This mode may be used for time course scanning or reaction rate calculations.







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TECHNICAL SPECIFICATION

MODEL	IG-27DS
Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190 nm - 1100 nm
Spectral Bandwidth	Fixed 1.0 nm
Wavelength Accuracy	± 0.3 nm (656.1 nm D2), ± 0.5 nm (full wavelength Range)
Wavelength Repeatability	0.1 nm
Wavelength Display Setting	0.1 nm increment
Photometric Accuracy	±0.3% T(0~100% T)
Photometric Repeatability	0.001 Abs(0~0.5 Abs)
Wavelength Slew rate	15000 nm/min
Photometric Range	-3A ~ 3A
Transmittance	0-100% T
Stray Light	<=0.02%T(220 nm,natural air level **(nal)** ,340 nm **NaMO2** Sodium Metal Oxide)
Stability	±0.0004 A/H@500 nm
Baseline Flatness	±0.001A
Scanning Speed	Fast, Mid, Slow
Wavelength Setting	Auto
Keyboard	Membrane Keypad
Light Source	Deuterium & Tungsten Lamp
Wavelength Resolution	0.1 nm
Photometric Mode	Absorbance , Transmittance and Concentration (A, T and C)
Detector	Imported Silicon Photodiode
Interface	USB Port and parallel port (Printer)
Power	AC 220V/50Hz or AC 110V/60Hz
Dimension	590 x 460 x 220mm
Weight	25kg
Drift	± 0.0004 Abs/h
Cell Holder	2 Cell Holder

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CONNECT WITH US.

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