

The power of small.

1ul SAMPLE SIZE

Patented Retention System

10 SECONDS

Fast Measurement Cycle

NO CUVETTES

Easy Preparation

NO DILUTIONS for DNA/RNA

2 ng/ul - 3700 ng/ul (dsDNA)

NO DILUTIONS for PROTEINS

0.1 mg/ml - 100 mg/ml (BSA)

FULL UV/VIS SPECTRUM

220nm – 750nm

NOVEL TECHNOLOGY

The sample is pipetted directly onto the measurement surface. Using a patented retention system, a column is drawn between the ends of two optical fibers to establish the measurement path. The technology was developed for use in DuPont Agricultural Genomics Laboratories and has been in full-time use since 1998.

APPLICATIONS

Nucleic Acids: Concentration and quality measurements without dilution (DNA, RNA, oligos, PCR product, and hybridization probe).

Microarray: Measures nucleic acid probe and dye concentration to determine labeling efficiency (Cy3, Cy5, and Alexa Fluor dyes).

Proteins: Concentration and quality measurements of labeled and unlabeled proteins without dilution. Bradford, BCA, and Lowry assays.

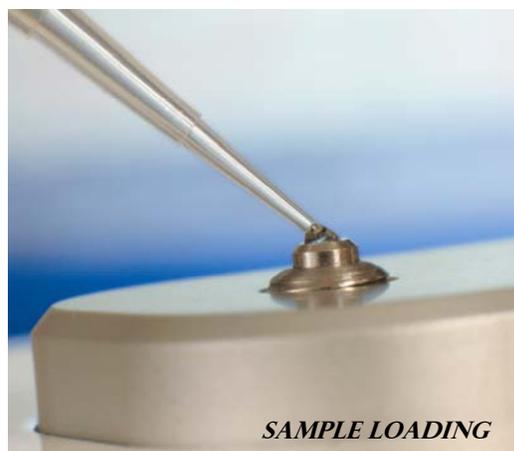
Spectrophotometry: Performs full-spectrum UV/Vis spectrophotometry.

Cell Density: Determines cell density of microbial cultures in suspension.

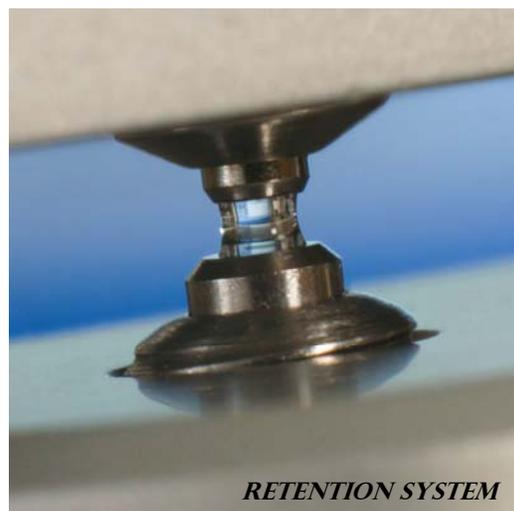
SPECIFICATIONS

Sample Size: 1 microliter
 Path Length: 1 mm (with auto-ranging to 0.2 mm)
 Light Source: Xenon flash lamp
 Detector Type: 2048-element linear silicon CCD array
 Wavelength Range: 220-750 nm
 Wavelength Accuracy: 1 nm
 Wavelength Resolution: 3 nm (FWHM at Hg 546 nm)
 Absorbance Precision: 0.003 absorbance (1 mm path)
 Absorbance Accuracy: 2% (at 0.76 absorbance at 257 nm)
 Absorbance Range: 0.02-75 (10 mm equivalent absorbance)
 Detection Limit: 2 ng/microliter (dsDNA)
 Maximum Concentration: 3700 ng/microliter (dsDNA)
 Measurement Cycle Time: 10 seconds
 Footprint: 14 cm X 20 cm
 Weight: 1.6 kg

Sample Pedestal Material of Construction:
 303 stainless steel and quartz fiber
 Operating Voltage: 12 vdc
 Operating Power Consumption: 6W
 Standby Power Consumption: 1.5 W
 CE Approval: Units sold in Europe, Australia, and New Zealand
 UL/CSA Approval: Units sold in N. America, S. America, Asia and Africa



SAMPLE LOADING



RETENTION SYSTEM