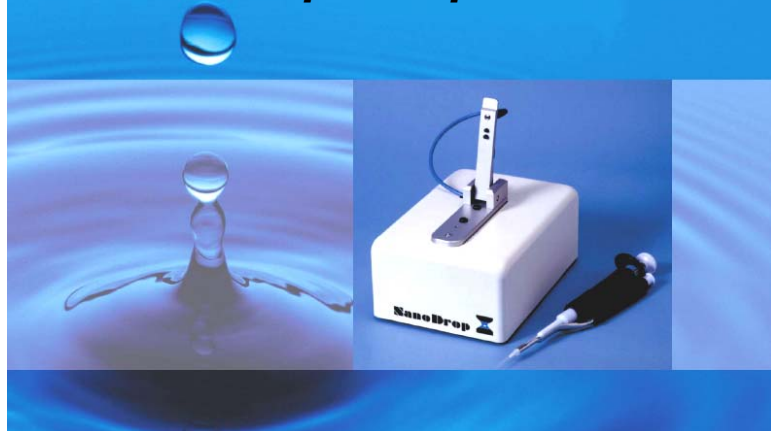




ND-1000 Spectrophotometer



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

1mm path length (with auto-ranging to 0.2 mm)
1 microliter sample
Xenon flash lamp
2048-element linear silicon CCD array detector
Wavelength range: 220-750 nm
Wavelength accuracy: 1 nm
Wavelength resolution: 3 nm (FWHM at Hg 546nm)
Absorbance precision: 0.003 absorbance (1mm path)
Absorbance accuracy: 2% (at 0.76 absorbance at 257 nm)
Absorbance range: 0.02-75 (10mm equivalent absorbance)
Detects nucleic acid down to 2 ng/ul of dsDNA
Measures nucleic acid up to 3700 ng/ul of dsDNA
Measurement cycle: 10 seconds
Dimensions: 20 cm X 15 cm x 12 cm

1ul SAMPLE SIZE
Patented Retention System

10 SECONDS
Fast Measurement Cycle

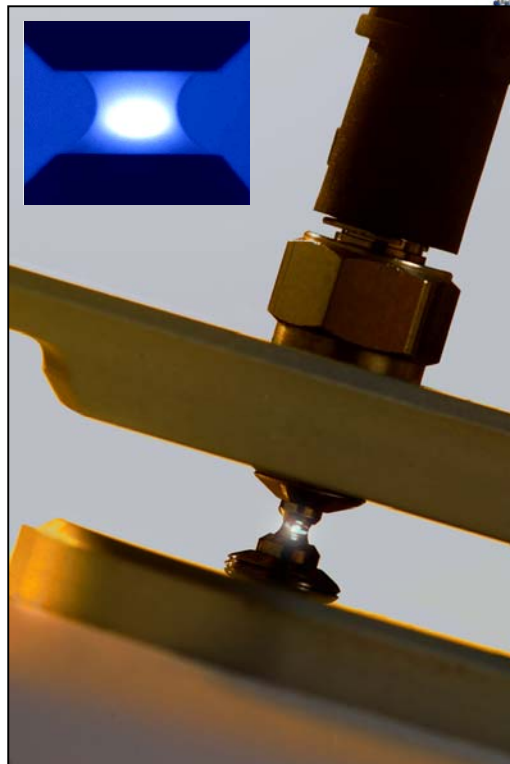
NO CUVETTES
Easy Preparation

NO DILUTONS 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

SMALL FOOTPRINT
Only 9"x5"



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