

Nano Drop



Band: NanoDrop Technologies, Inc.

Model: ND-1000

Custodian: Nij Kramol

Description:

The NanoDrop 1000 Spectrophotometer enables highly accurate analyses of 1 μ l samples with remarkable reproducibility. The full spectrum (220nm-750nm) spectrophotometer utilizes a patented sample retention technology that employs surface tension alone to hold the sample in place. This eliminates the need for cumbersome cuvettes and other sample containment devices and allows for clean up in seconds. In addition, the NanoDrop 1000 Spectrophotometer has the capability to measure highly concentrated samples without dilution (50X higher concentration than the samples measured by a standard cuvette spectrophotometer).

Specification:

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 (1mm 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

Application Modules:

Nucleic Acid	concentration and purity of nucleic acid
Micro Array	dye incorporation concentration and purity of nucleic acid
UV-Vis	general UV-Vis measurements
Cell Cultures	“absorbance” (light scattering) measurement of suspended microbial cells
Protein A280	concentration and purity of purified protein
Proteins & Labels	concentration of dye-labeled proteins, conjugates, and metalloproteins
Protein BCA	protein concentration using the BCA assay
Protein Bradford	protein concentration using the Bradford assay
Protein Lowry	protein concentration using the Modified Lowry assay
Pierce 660 nm Protein Assay	protein concentration using the new 660 nm assay