

NANO DROP



Descriptions

The NanoDrop™ 1000 Spectrophotometer measures **1 ul samples with high accuracy and reproducibility**. The full spectrum (220nm-750nm) spectrophotometer utilizes a patented sample retention technology that employs surface tension alone to hold the sample in place.

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).

This instrument can measure **Nucleic acid concentration and purity of nucleic acid samples up to 3700 ng/ul (dsDNA) without dilution**, Fluorescent dye labeling density of nucleic acid microarray samples, Purified protein analysis (A280) up to 100 mg/ml (BSA), Expanded spectrum measurement and quantitation of fluorescent dye labeled proteins, conjugates, and metalloproteins, Bradford Assay analysis of protein, BCA Assay analysis of protein, Lowry Assay analysis of protein, Pierce Protein 660 nm Protein Assay, Cell density measurements and General UV-Vis spectrophotometry

Further Information

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Brand-Model

THERMO SCIENTIFIC-ND-1000

Basic Specifications

Detector Type:
2048-element linear silicon CCD array

Detection Limit: 2 ng/microliter (dsDNA)

Wavelength Range: 220-750 nm
Wavelength Accuracy: 1 nm

Absorbance Accuracy:
3% (at 0.74 absorbance at 350 nm)

Maximum Concentration:
3700 ng/microliter (dsDNA)

Measurement Cycle Time: 10 seconds

Measurement types:
Nucleic Acid, Purified protein, Bradford,BCA or Lowry Assay and Microbial cell suspension

Sample Size requirement:

- Nucleic acid - 1 ul
- Purified protein - 2 ul
- Bradford, BCA or Lowry Assay - 2 ul
- Microbial cell suspension - 2 ul

Equipment Website (Manufacturer)

<https://tools.thermofisher.com/content/sfs/manuals/nd-1000-v3.8-users-manual-8%205x11.pdf>

Types of samples

Liquid

Location

Analytical Service Laboratory
(03-102-01)

Operator

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