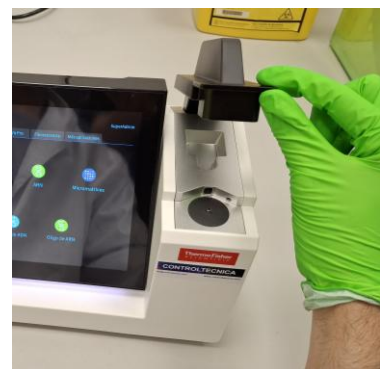




Spectrophotometer Nanodrop Ultra



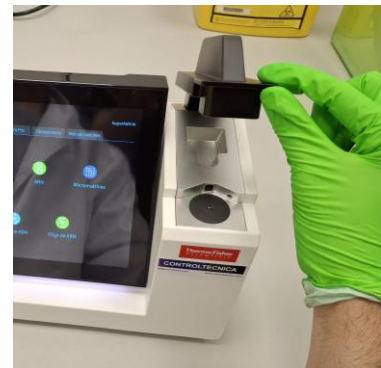
The Nanodrop Ultra is a full-spectrum (190-850 nm) spectrophotometer with a minimum sample volume of 1 μL with high accuracy ($\pm 1\text{nm}$) and reproducibility.

Pedestal Absorbance Specifications:

NanoDrop Ultra		
Minimum sample volume		1 μL
Limit of Detection	dsDNA (RNA)	1 (0.8) ng/ μL
	BSA (IgG)	0.03 (0.02) mg/mL
Maximum Concentration	dsDNA (RNA)	27,500 (22,000) ng/ μL
	BSA (IgG)	820 (400 mg/ml)
Measurement Repeatability ¹		Typical: 0.002 A (1.0 mm path) or 1%CV, whichever is greater
Photometric	Range	0.02 - 550 Abs (10 mm equivalent)
	Accuracy ²	3% at 0.97 A, 302 nm
Pathlengths		1.0 mm, 0.2 mm, 0.1 mm, 0.05 mm, 0.03 mm auto-ranging
Measurement & Data Processing Time		≤ 7 sec
Acclaro Pro	Measurement Repeatability	< 3% CV
	Measurement & Data Processing Time	≤ 30 sec

¹ SD of 10 individual samples measured at 0.97 A

² Absorbance expressed at Abs/mm at 25°C



Spectrophotometer Nanodrop Ultra

Applications:

• Nucleic acid applications



dsDNA, ssDNA or RNA

Measures the concentration of purified dsDNA, ssDNA or RNA samples that absorb at 260 nm.



Oligo DNA or Oligo RNA

Measures the concentration of purified ssDNA or RNA oligo-nucleotides that absorb at 260 nm.



Custom factor

Measures the concentration of purified nucleic acids using a custom factor for the calculations.



UV-Vis

Measures the absorbance of any sample at up to 40 wavelengths across the ultra-violet (UV) and visible regions of the spectrum.

• Protein applications



Protein A280

Measures the concentration of purified protein samples that absorb at 280 nm.



Protein A205

Measures the concentration of purified protein populations that absorb at 205 nm.



Protein BCA

Measures total protein concentration of unpurified protein samples using a bicinchoninic acid colorimetric detection reagent.



Protein Lowry

Measures total protein concentration of unpurified protein samples using a Folin-Ciocalteu colorimetric detection reagent.



Protein Pierce 660

Measures total protein concentration of unpurified protein samples using a proprietary colorimetric detection reagent.

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