



Infinite® 200 PRO NanoQuant

Highly sensitive absorbance reader for low sample volumes





Infinite 200 PRO NanoQuant – A powerful tool for nucleic acid applications

The Infinite 200 PRO NanoQuant was the first multimode microplate reader to be developed specifically for absorbance applications with low sample volumes. The sensitive instrument is available with Tecan's Quad4 Monochromators™ or with UV-stable filters, and can detect DNA concentrations as low as 1 ng/µl. This affordable instrument represents a simplified version of the standard Infinite 200 PRO and is compatible with Tecan's patent pending NanoQuant Plate™.

The Infinite 200 PRO Nanoquant is the ideal solution for a broad range of applications, such as DNA- or RNA-quantification, quality control and labeling efficiency. It delivers excellent sensitivity, multiplexing capability and high format flexibility, including 6- to 384-well microplates as well as half-well plates and the NanoQuant Plate for low concentration and low sample volumes.

NanoQuant technology

The patent pending NanoQuant Plate is a sensitive, quartz-based tool that can measure up to 16 samples simultaneously from sample volumes as low as 2 μ l, using a separate quartz optic for each sample. The NanoQuant Plate is compatible with multichannel pipettes and allows the detection of nucleic acids concentrations of just 1 ng/ μ l, with excellent reproducibility (CV <5 %).



Key applications

- DNA/RNA quantification during sample preparation for PCR-based assays in research, genetics, forensics and blood banking laboratories.
- · Measuring the labeling efficiency of dye-labelled samples, such as for FISH- and microarray-based experiments.

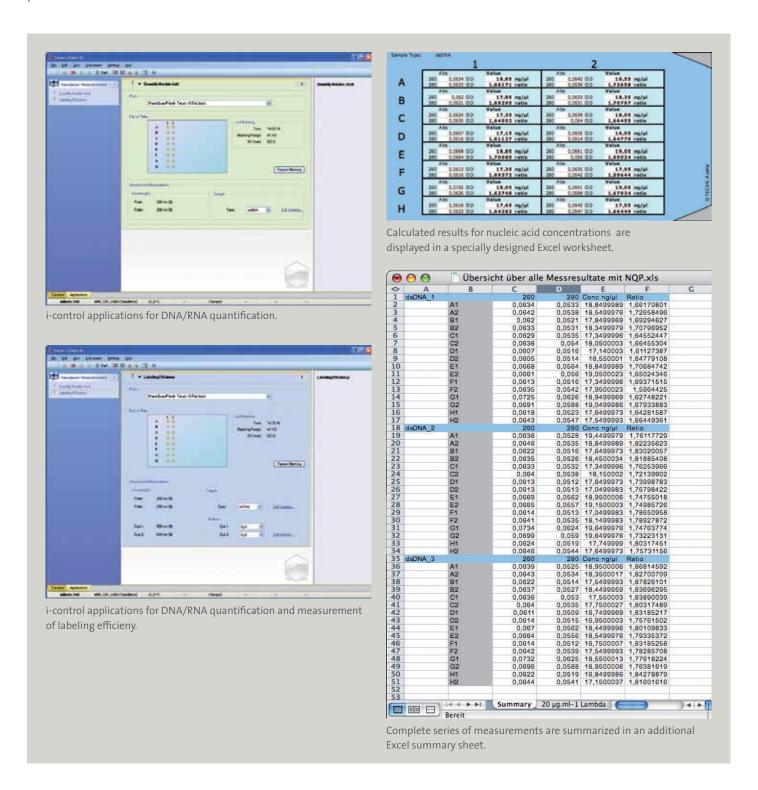
Key features

- Sensitivity detects and quantifies nucleic acid concentrations as low as 1 ng/µl.
- Flexibility performs absorbance measurements with the NanoQuant Plate, standard microplates (6- to 384-wells) and half-well 96-well plates.
- **Simplicity** includes application-oriented i-control™ software for rapid DNA/RNA quantification, and identifies dye incorporation by measuring nucleic acid labeling efficiency.
- Speed samples can be loaded using multichannel pipettes and measured within seconds.
- Upgradeable additional Infinite 200 PRO detection modes can also be included.

i-control[™] software – Easy to use software features for different applications

The i-control software for the Infinite 200 PRO NanoQuant has special features for quick and easy DNA/RNA quantification and for determination of labeling efficiency. Multiple samples in the NanoQuant Plate can be read in just a matter of seconds, and nucleic acid concentrations or other measurements are provided at the touch of a button.

The i-control software is an easy-to-use and flexible tool, which gives the user complete control over Tecan readers. DNA/RNA concentration or labeling efficiency can be automatically calculated and will be displayed in specially designed Excel® worksheets. After a series of measurements a summary of all results will be displayed. Also a quality check of the NanoQuant Plate can be performed if desired.



Infinite M200 and F200 PRO NanoQuant – Typical performance values

Light source	UV Xenon flashlamp
Wavelength selection	
Infinite M200 PRO NanoQuant	Quad4 Monochromators system (2 excitation monochromators)
Bandwidth	Ex: < 9 nm for λ> 315 nm; < 5 nm for λ≤ 315 nm
Wavelength accuracy	< \pm 0,5 nm for λ > 315 nm; < \pm 0,3 nm for λ ≤ 315 nm
Wavelength reproducibility	< \pm 0,5 nm for λ > 315 nm; < \pm 0,3 nm for λ ≤ 315 nm
Infinite F200 PRO NanoQuant	
Bandwidth	260 nm (5 nm bandwidth)
	280 nm (3 nm bandwidth)
Wavelength range	230 – 1000 nm
Absorbance	
Detection limit dsDNA concentration	1 ng/μl
Reproducibility of one sample (CV) (50 ng/μl)	<1%
Uniformity (50 µg/ml)	< 3 %
Ratio 260/280 nm (50 μg/ml)	± 0,07
Precision @ 260 nm	< 0,2 %
Accuracy @ 260 nm	< 0,5 %
Measurement range	o-40D
Detectors	UV Silicon photodiode
Plate formats	6- to 384-well plates, half-well plates, cuvettes, NanoQuant Plate

Tecan – Who we are

Tecan is a leading global provider of laboratory instruments and solutions in biopharmaceuticals, forensics, clinical diagnostics, academic centers and life science industries, and specializes in the development and production of automation solutions, detection instruments such as microplate readers, microarray-related products and washers.

Founded in Switzerland in 1980, Tecan has manufacturing, research and development sites in both North America and Europe, and maintains a sales and service network in 52 countries. To date, Tecan has distributed approximately 20,000 microplate readers worldwide and is committed to continuous technological improvements and compliance to global quality standards.

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