



HIGH THROUGHPUT FULL SPECTRUM ANALYSIS OF SMALL DROPLETS

The DropletQuant™ is the first microliter microplate reader giving full spectrum scans of up to 96 samples in less than 6 minutes from samples volumes as low as 2 μL , allowing rapid full spectrum assessment of sample impurities before expensive downstream processing has begun.

- Quantify DNA, RNA and protein on the same sample in minutes
- Wide dynamic range (1.5-10,000 ng/ μL)
- Eliminate repetitive, monotonous pipetting, avoiding human errors
- Rapidly analyze sample purity for contamination

Seamless integration with robotic liquid handlers eliminates quantification as a process bottleneck, and reduces downstream process variability and human error.



Key Applications:

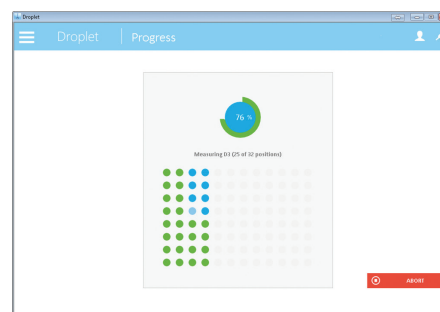
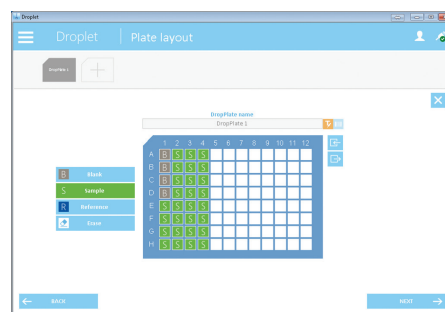
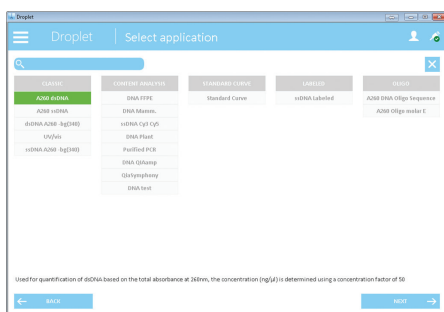
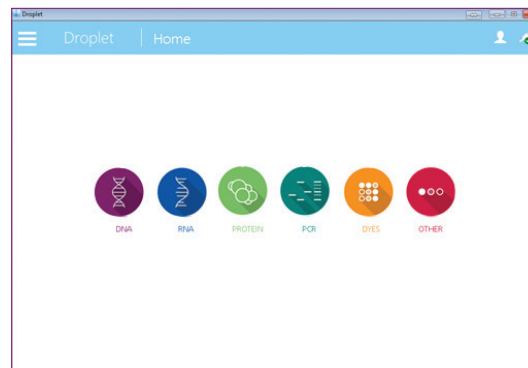
- Nucleic acids concentration measurements
- Purity calculations
- Measurement of dye labeling efficiency of microarray samples
- Direct protein quantifications
- Color measurements (e.g. Bradford)
- General UV/VIS measurements

www.perkinelmer.com

Intuitive DropletQuant Software Interface

The DropletQuant easy-to-use software enables quick DNA/RNA quantification and facilitates labeling determination. Multiple samples can be read in just minutes while nucleic acid concentrations or other measurements are provided at the touch of a button. Sample data can be rapidly imported and exported.

- Easy to operate
- Predefined protocols
- Sample identification
- Multiple user levels
- Interface to robotic systems
- LIMS ready
- Fast report printing



Specifications

Sample Size	2 μ L (DropPlate S and D+)
Sample Number	1—96 (flexible use of DropPlate-16 or -96)
Path Length	0.5 mm on DropPlate S 0.1 mm and 0.7 mm on DropPlate D+
Light Source	Xenon flash lamp
Optical System	5-channel polychromator: 4 parallel sample channels + 1 reference channel
Wavelength Range	230—750 nm
Wavelength Resolution	5 nm
Wavelength Accuracy	0.5 nm
Wavelength Reproducibility	0.1 nm
Absorbance Range	0.1 to 40 OD on DropPlate S (10 mm equivalent) 0.03 to 200 OD on DropPlate D+ (10 mm equivalent)
Measurement Time	<4 sec per sample On DropPlate S
Dimensions	W: 37 cm x L: 46 cm x H: 33 cm
Operating Voltage	24 VDC
Connection	USB

For more information, www.perkinelmer.com.

For research use only. Not for use in Diagnostic procedures.

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