# QUALITY CONTROL BEYOND QUANTIFICATION







# DROPSENSE96 PLATE READER

### FAST, EASY, POWERFUL

The only option for 96well micro-volume quantification. Speed up your work without sacrificing accuracy.

### EASY

Quantify up to 96 samples in about 5 minutes. Stop wasting time with repetitive cleaning or mixing steps. Just load any sample on the Drop-Plate, insert and quantify.

#### MICRO-VOLUME

Quantification requires only 2µl of undiluted sample, leaving more sample for downstream assays.

### DETAILED

Next to classic A260 and A280 absorbance, the DropSense96 identifies influencing contaminants to reveal the true DNA, RNA or protein concentration.

### CONFIDENT

Built-in features such as integrated calibration, minimal labor and sample evaporation protection make the DropSense96 the most reliable plate reader for any life science application.



# DROPSENSE96 INTELLIGENT QUANTIFICATION



Lysate 1 Lysate 2 Lysate 3 Lysate 4 Lysate 4 Lysate 4 + DNA + DNA

# DROPSENSE96 SOFTWARE

### INTELLIGENCE WITH A SIMPLE CLICK

**DropQuant** software is easy to operate with extensive options for experimental set-up, plate layout and import/export options. Simply select an app (DNA, RNA, protein), locate the samples on the plate(s) and measure.



### ALL ABOUT SAMPLE QUALITY

**cDrop** apps identify sample contaminants, providing proper QC for downstream assays. Find out how much RNA, turbidity, beads and other influencers are in your DNA samples. Get accurate quantification results, corrected for the contaminants present. NO DYE, NO ASSAY, NO DILUTION

#### Add-on functionalities:

GLP software option (21 cfr part 11) Integrated IQ/OQ verification SiLA compatible robot integration software



### MEASUREMENT CYCLE IN DropPlate D+



**Step 1** Load a 2µl sample in the input well.



Sample will be immediately captured and protected in the capillary storage channel ready to be measured.



#### 3 Step 3

Insert de plate in the DropSense96. The micro-cuvettes are measured empty first, then filled for sample read-out.

# DROPSENSE96 DROPPLATES

### TOP-LEVEL DESIGN TO FIT HIGH STANDARDS

Simply load your precious samples at your bench or on a liquid handler and rely on the DropSense96. No cleaning. No contamination. No evaporation.

### Choose your dynamic range:

### **DropPlate S**

Microfluidic plate with a single measurement chamber, ideal for routine genomic and protein applications.

Measurement range: 0.03 to 40 OD dsDNA range: 1.5 ng/µl up to 2000 ng/µl IgG protein range: 0.02 mg/ml to 29 mg/ml

### DropPlate D+

Microfluidic plate with a dual measurement chamber, extended OD range for broad range applications.

Measurement range: 0.03 to 200 OD dsDNA range: 1.5 ng/µl to 10,000 ng/µl IgG protein range: 0.02 mg/ml to 146 mg/ml

### **NO SAMPLE PREP**

Load 2µl of any native sample. The DropPlates allow an extensive measurement range eliminating the need to dilute.

### YOUR TIME, YOUR SPACE

Load 1 to 96 samples with a single, 8-span or 96-well dispenser. Samples are instantly conserved and protected from evaporation for up to 2 hours.

### **ROBUST READ-OUT**

Built-in micro-cuvettes have fixed path lengths, no need for any moving parts to create the optical path.

# DROPSENSE96

### THE ONLY DROPLET READER FIT TO INTEGRATE

Integrate into any liquid handling robot using our Application Programming Interface (API) or SiLA compliant driver for hands-free sample quality control and normalization. Dispense and stack multiple DropPlates while samples are conserved and ready for read-out.



### As easy as...



### General specifications

SAMPLE SIZE	2 µl	CROSS CONTAMINATION	Not possible
SAMPLE NUMBER	1 to 96	SAMPLE EVAPORATION	None (up to 2h after loading)
TIME SPENT PER SAMPLE	< 4 seconds	EXTERNAL PC REQUIRED	Yes
LIGHT SOURCE	Xenon flash lamp	CALIBRATION	Integrated
DETECTOR	UV/VIS Polychromatic system	CONNECTION	USB, TCP/IP
WAVELENGTH RANGE   ACCURACY	230-750 nm 0.5 nm	DIMENSIONS	(W) 37 x (L) 46 x (H) 33 cm
ABSORBANCE PRECISION	0.001 OD (0.5mm path) 3% (0.66 OD at 350 nm)	APPROVAL	CE, CSA, FCC
DropPlate S	Measurement range: 0.03 to 40 OD dsDNA range: 1.5 ng/µl up to 2000 ng/µl IgG protein range: 0.02 mg/ml to 29 mg/ml	DropPlate D+	Measurement range: 0.03 to 200 OD dsDNA range: 1.5 ng/µl to 10,000 ng/µl IgG protein range: 0.02 mg/ml to 146 mg/ml

TRINEAN NV Dulle Grietlaan 17/3 | 9050 Gentbrugge | Belgium T +32 (9) 272 75 35 | F +32 (9) 272 75 39 | E info@trinean.com

www.trinean.com

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