

Fluorometer EzCube

Description

EzCube Fluorometer features triple fluorescent channels and offers high-sensitivity and specific quantification of nucleic acids and proteins.

It accurately measures low concentration samples as small as 1 µl, making it ideal for demanding applications, including NGS.

Combined with dedicated EzQuant quantification assays, an intuitive touchscreen and USB connectivity, EzCube simplifies your precision quantification processes and makes them easy.



EzCube Fluorometer

Specifications

- Enhanced Accuracy and Sensitivity**
Quantify low concentrations of DNA, RNA and protein with just 1 µl in seconds, more sensitive than UV absorbance measurements.
- Three Fluorescent Channels**
Expand your application range with triple-channel detection.
- Easy Operation**
Seamlessly control your workflow with an intuitive 7-inch touchscreen and a built-in reagent calculator.
- Flexible Data Management**
USB connectivity for easy data export.
- High Compatibility with Quantification Assays**
EzCube fluorometer works with EzQuant quantification assays and other commonly used options.
 - 1X dsDNA HS (High-Sensitivity)
 - ssDNA
 - RNA HS (High-Sensitivity)
- Triple-Channel Detection**
Light sources
 - Blue LED (max 480 nm)
 - Red LED (max 630 nm)
 - Green LED (max 535 nm)



EzCube fluorometer display (7" touchscreen)



EzCube fluorometer
High compatibility with quantification assays

Fluorometer EzCube



Technical Data

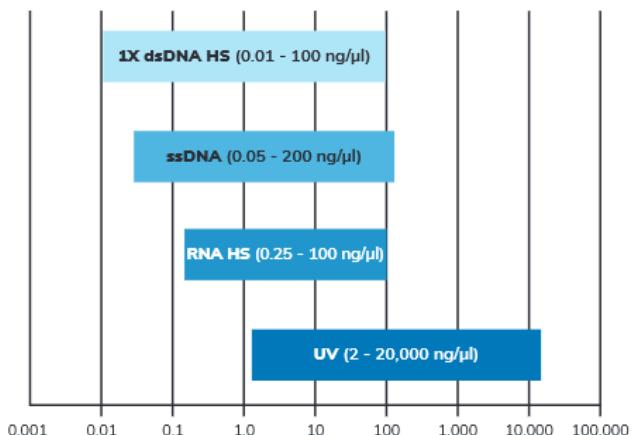
Order No.	103.4000
Dynamic range	5 orders of magnitude
Light sources	Blue LED (max 480 nm) Red LED (max 630 nm) Green LED (max 535 nm)
Excitation filters	Blue (430 – 495 nm) Red (600 – 645 nm) Green (490 - 535 nm)
Emission filters	Blue (510 – 580 nm) Red (665 – 720 nm) Green (564 – 650 nm)
Detectors	Photodiodes, measurement capability 320 – 1100 nm
Tube type	0.5 ml thin wall Polypropylene PCR tubes
Operating system	Custom Linux based OS
Display	7" touch screen, 1280*800 TFT-LCD
Connectivity	USB-A port x2 (data output)
Dimensions (W x D x H)	196 mm x 248 mm x 68 mm
Weight	1 kg
Glove compatibility	All common lab gloves
Internal storage	32 GB flash memory
Operating voltage	Input: AC 100 – 240 V, 50/60 Hz Output: DC 12 V, 3 A

EzQuant - Quantification Assay Kits

Description

EzQuant quantification assays are your trusted choice for dsDNA HS, ssDNA, and RNA HS detection. These assays utilize a highly specific fluorescent dye that binds precisely to the target molecule. This allows accurate quantification down to 10 pg/µl, even in the presence of contaminants or degraded DNA/RNA.

EzQuant quantification assays only require a 1 µl sample and a quick 2-minute incubation to significantly enhance the efficiency of your quantification processes.

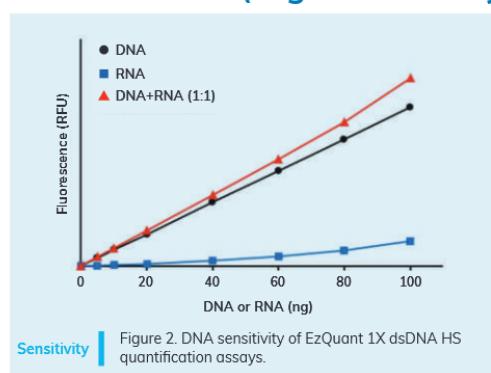


Specifications

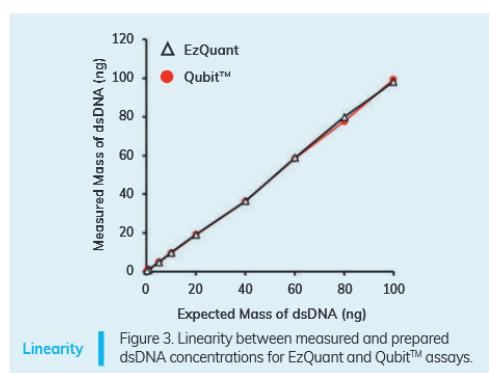
- Sample size can be as small as 1 µl.
- Only 2 minutes of incubation is required.
- Results are available in seconds.

The initial sample concentration for EzQuant quantification assays and UV absorbance measurements is between 1 and 20 µL. UV absorbance measurements can quantify highly concentrated samples but are not selective for DNA or RNA.

1X dsDNA HS (High-Sensitivity)

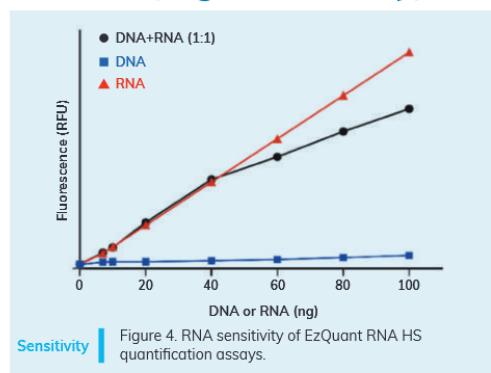


Sensitivity | Figure 2. DNA sensitivity of EzQuant 1X dsDNA HS quantification assays.

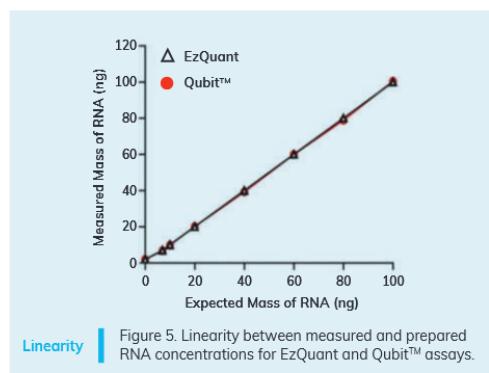


Linearity | Figure 3. Linearity between measured and prepared dsDNA concentrations for EzQuant and Qubit™ assays.

RNA HS (High-Sensitivity)



Sensitivity | Figure 4. RNA sensitivity of EzQuant RNA HS quantification assays.



Linearity | Figure 5. Linearity between measured and prepared RNA concentrations for EzQuant and Qubit™ assays.

Further information about EzQuant is available on request.