

EzCube Fluorometer

Illuminating Precision
with Triple Fluorescent Channels



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EzCube Fluorometer

EzCube Fluorometer features three selectable 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 Wi-Fi connectivity, EzCube simplifies your precision quantification processes and makes them easy.



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 Selectable Fluorescent Channels

Choose dual or triple fluorescent channels to meet specific requirements for your applications.

Flexible Data Management

Easily export your data via USB or Wi-Fi in a quick and easy way.

Easy Operation

Seamlessly control your workflow with an intuitive 7-inch touchscreen and a built-in reagent calculator.

High Compatibility with Quantification Assays

EzCube fluorometer works with EzQuant quantification assays and other commonly used options.

EzQuant Quantification Assay Kits

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 $\text{pg}/\mu\text{l}$, 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.

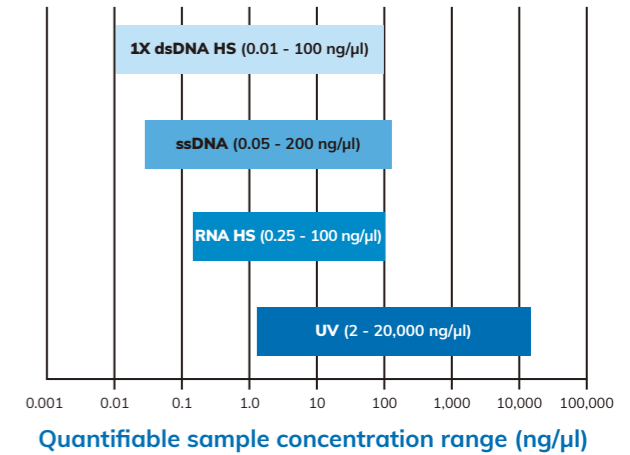


Figure 1. Quantitative initial sample concentration ranges (variable sample volume 1 - 20 μl) for EzQuant quantification assays and UV absorbance measurements.

1X dsDNA HS (High-Sensitivity)

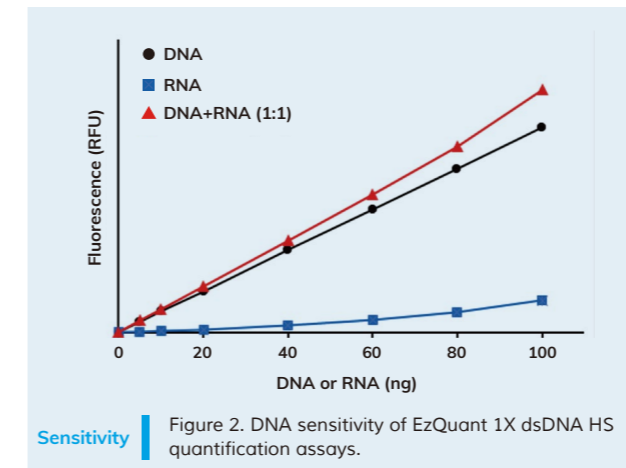


Figure 2. DNA sensitivity of EzQuant 1X dsDNA HS quantification assays.

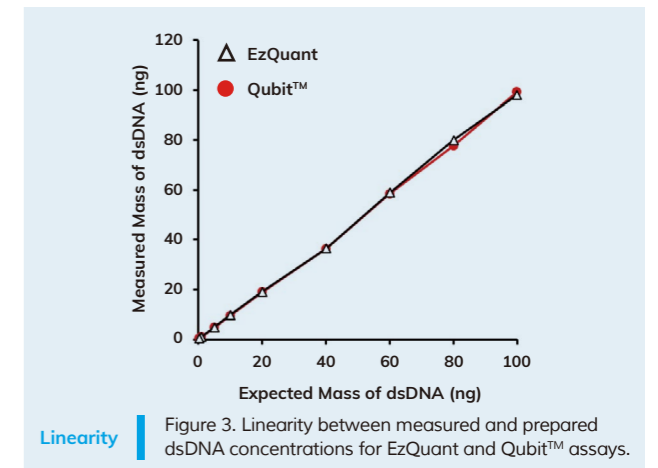


Figure 3. Linearity between measured and prepared dsDNA concentrations for EzQuant and Qubit assays.

RNA HS (High-Sensitivity)

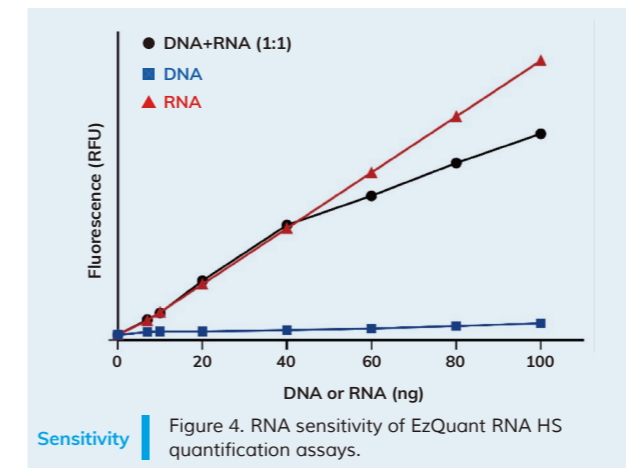


Figure 4. RNA sensitivity of EzQuant RNA HS quantification assays.

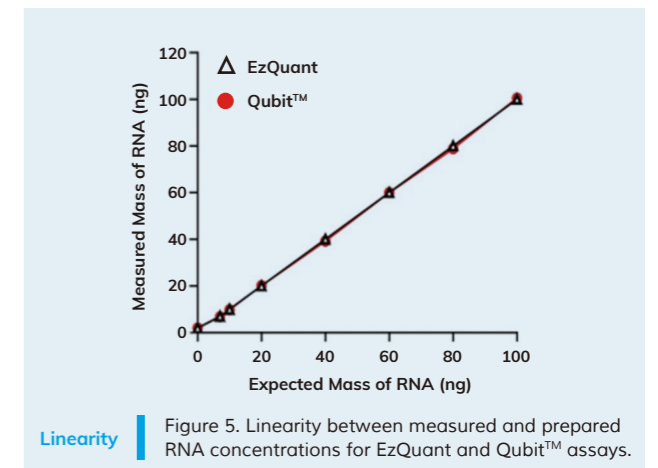


Figure 5. Linearity between measured and prepared RNA concentrations for EzQuant and Qubit assays.

Specifications

Dynamic Range	5 orders of magnitude
Measurement Time	≤ 4 seconds
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 from 320 - 1,100 nm
Tube Type	0.5 ml polypropylene thin wall PCR tubes
Operating System	Custom Linux based OS
Display	7" touch screen, 1,280*800 TFT-LCD
Connectivity	USB-A port x2 (Data output & Wi-Fi connection)
Dimensions (W x D x H)	196 mm x 248 mm x 68 mm (7.7 x 9.8 x 3.4 in.)
Weight	1 kg (2.2 lb.)
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
Certifications	CE

Specifications are subject to change without prior notice.

Ordering Information

BRFP-0200	EzCube Fluorometer (Blue & Red)
BRFP-0300	EzCube Fluorometer (Blue, Red & Green)
T00-FPBR00-00	EzQuant 1X dsDNA HS Quantification Kit (100 Assays)
T00-FPBR01-00	EzQuant ssDNA Quantification Kit (100 Assays)
T00-FPBR02-00	EzQuant RNA HS Quantification Kit (100 Assays)
T00-FPBR03-00	0.5 ml Thin Wall PCR Tube

Note:

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