

# EzCube Fluorometer

Illuminating Precision  
with Triple Fluorescent Channels



 **BLUE-RAY**  
BIOTECH

# Illuminating Precision with Triple Fluorescent Channels

## EzCube Fluorometer

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  $\mu$ l, 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.



### Enhanced Accuracy and Sensitivity

Quantify low concentrations of DNA, RNA and protein with just 1  $\mu$ l 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.

## 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 pg/ $\mu$ l, even in the presence of contaminants or degraded DNA/RNA.

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

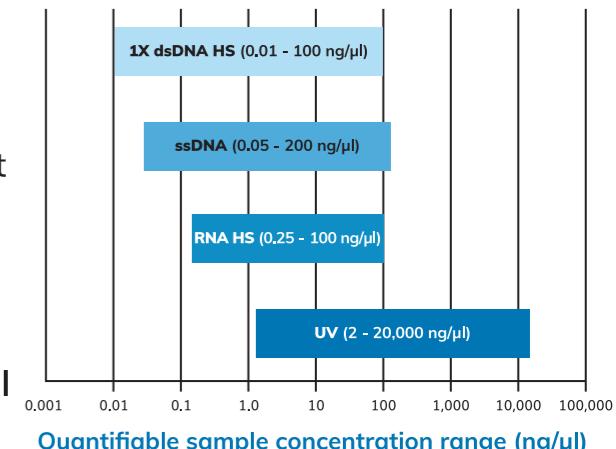
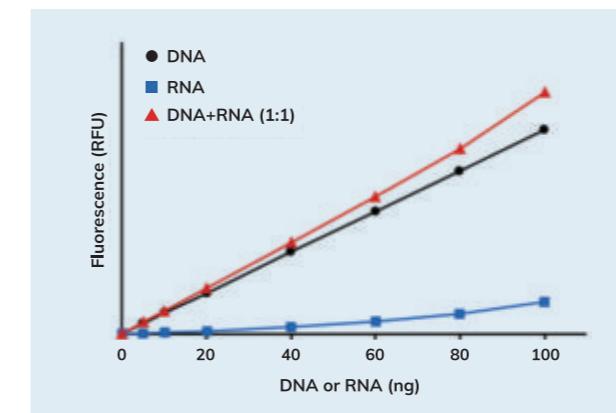
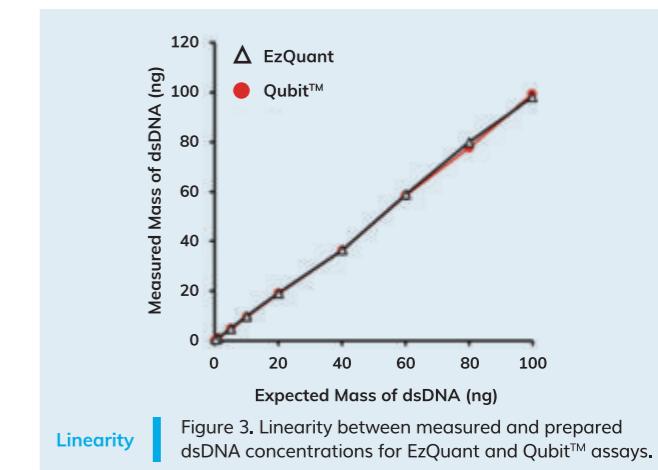


Figure 1. Quantitative initial sample concentration ranges (variable sample volume 1 - 20  $\mu$ l) for EzQuant quantification assays and UV absorbance measurements.

### 1X dsDNA HS (High-Sensitivity)

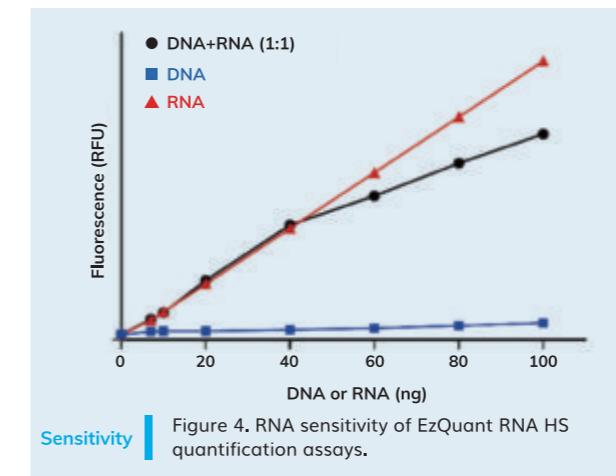


Sensitivity | Figure 2. DNA sensitivity of EzQuant 1X dsDNA HS quantification assays.

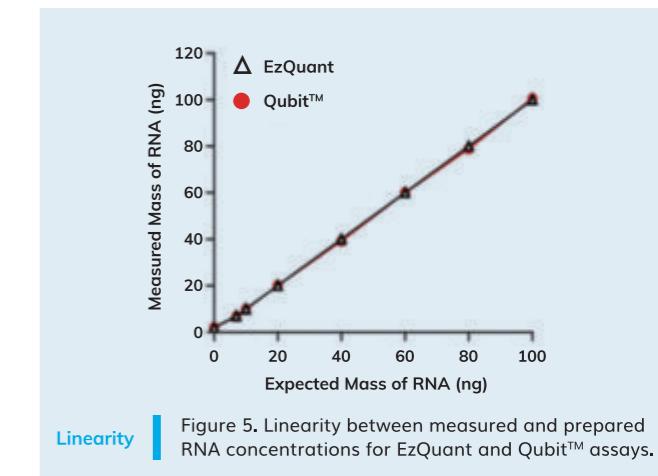


Linearity | Figure 3. Linearity between measured and prepared dsDNA concentrations for EzQuant and Qubit™ assays.

### 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.

# Specifications

Dynamic Range	5 orders of magnitude
Measurement Time	≤ 3 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	Green 510 - 580 nm Red 665 - 720 nm Yellow 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 x1 (Data output)
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 24 V, 2.7 A
Certifications	CE

Specifications are subject to change without prior notice.

## Ordering Information

BRFP-0300	EzCube Fluorometer (Blue, Red & Green)
BRQK011-010000 (T00-FPBR00-00)	EzQuant 1X dsDNA HS Quantification Kit (100 Assays)
BRQK011-050000 (T00-FPBR04-00)	EzQuant 1X dsDNA HS Quantification Kit (500 Assays)
BRQK020-010000 (T00-FPBR01-00)	EzQuant ssDNA Quantification Kit (100 Assays)
BRQK031-010000 (T00-FPBR02-00)	EzQuant RNA HS Quantification Kit (100 Assays)
BRQK100-050000 (T00-FPBR03-00)	0.5 ml Thin Wall PCR Tube

Authorized Distributor

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