

# Sample Quantification Solutions

Spectrophotometers / Fluorometer



**EzDrop 1000**  
Micro-Volume Spectrophotometer



**EzCube**  
Fluorometer



**EzDrop 1000C**  
Micro-Volume / Cuvette Spectrophotometer



**EzQuant**  
Quantification Assay Kits

# Smart Quantification from Routine to Specialized



Seeking versatile quantification for your laboratory? Our complementary solutions cover all needs. The EzDrop series Spectrophotometer excels in rapid, full-spectrum measurements of purified DNA, RNA, and proteins within three seconds, ideal for routine checks and purity assessment. For specialized needs, the EzCube Fluorometer offers picogram-level sensitivity and nucleic acid specificity with three fluorescent channels, perfect for low-concentration samples and applications like NGS. Both feature flexible data management to seamlessly support your research workflow.

## Why Us

- ✓ Comprehensive UV-Vis and fluorescence quantification solutions
- ✓ Rapid results within seconds
- ✓ High-quality, cost-effective performance
- ✓ Proven reliability in top publications

## Routine Broad-Range Quantification

### EzDrop Series Spectrophotometer

Delivers rapid results in 3 seconds for routine nucleic acid and protein quantification. Offers micro-volume and cuvette modes with full-spectrum detection (190-1,000nm). Operates as a standalone unit or can be connected to a PC for more flexible data management.

#### Micro-Volume Mode

- Uses only 1  $\mu$ L of undiluted sample
- Nano-hydrophobic window coating ensures accurate and reproducible results
- Cushioned arm for shock protection during closure
- Smart assist light for accurate placement



#### Cuvette Mode (1000C only)

- Ideal for OD600 and kinetics measurements
- Temperature control (37-45°C) and stirring function
- Various 10 mm pathlength cuvette



	EzDrop 1000	EzDrop 1000C	EzCube
Technology	UV-Vis Spectrophotometry		Fluorescence
Sample Type	Micro-volume	Micro-volume and Cuvette	Micro-volume
Wavelength Range		190-1,000 nm	Fluorescence-based
Low Detection Limit (dsDNA)	2 ng/ $\mu$ L	2 ng/ $\mu$ L (micro) / 0.3 ng/ $\mu$ L (cuvette)	Down to 10 pg/ $\mu$ L
Nucleic Acid Specificity			✓
Data Management	USB, PC-connection		USB
Key Applications	<ul style="list-style-type: none"><li>• Nucleic acid quantification</li><li>• Protein quantification</li><li>• Purity assessment</li></ul>	<ul style="list-style-type: none"><li>• All EzDrop 1000 applications</li><li>• OD600 measurements</li><li>• Kinetics studies</li></ul>	<ul style="list-style-type: none"><li>• Quantification of low concentration DNA/RNA</li><li>• NGS library preparation</li><li>• qPCR</li></ul>
Best Suited For	Routine nucleic acid/protein measurements	Labs requiring micro-volume and cuvette options	Sensitive, specific quantification in complex samples

## High-Sensitivity Specific Nucleic Acid Analysis

### EzCube Fluorometer

Enables high-sensitivity, specific quantification for low-concentration nucleic acids with three fluorescent channels. Optimized for EzQuant assays, ensuring picogram-level sensitivity and a wide dynamic range.



- Enhanced sensitivity detection (down to 10 pg/ $\mu$ L)
- Triple fluorescent channels for diverse applications
- Compatible with EzQuant and standard assay kits
- USB connectivity for easy data export

# Specifications

## Micro-Volume Mode (EzDrop 1000, EzDrop 1000C)

Minimum Sample Volume	1 $\mu$ L
Pathlength	0.5 / 0.05 mm
Light Source	Xenon flash lamp
Detector Type	2048 element CMOS
Wavelength Range	190 - 1,000 nm
Wavelength Accuracy	$\pm$ 1.0 nm
Spectral Resolution	1.5 nm (FWHM at Hg 253.7 nm)
Absorbance Precision	Raw: 0.0015 A (0.5 mm); 0.03 A (1 cm equivalent)
Absorbance Accuracy	1.5% at 1.0 A at 300 nm
Absorbance Range (1 cm equivalent)	0.04 - 400 A
Detection Range	dsDNA: 2 - 20,000 ng/ $\mu$ L; BSA: 0.06 - 600 mg/mL

## Cuvette Mode (EzDrop 1000C)

Pathlength	10, 5, 2, 1, 0.5, 0.2, 0.125, 0.1 mm
Absorbance Range (1 cm equivalent)	0.002 - 1.5 A
Detection Range	dsDNA: 0.3 - 75 ng/ $\mu$ L; BSA: 0.003 - 2.25 mg/mL
Stirring	8 Speeds (150 - 850 rpm)
Temperature Control	37 - 45°C $\pm$ 0.5°C (Quartz Cuvette)

## Fluorometer Mode (EzCube)

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	Green 510 - 580 nm Red 665 - 720 nm Yellow 564 - 650 nm
Detectors	Photodiodes; measurement capability from 320 - 1,100 nm

## General

Certification	CE
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Specifications are subject to change without prior notice.

## Ordering Information

BRED-1000	EzDrop 1000 Micro-Volume Spectrophotometer
BRED-1000C	EzDrop 1000C Micro-Volume / Cuvette Spectrophotometer
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)



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