

EzQuant RNA HS Quantification Kit

Product Description

EzQuant RNA HS (High Sensitivity) Quantification Kit is a simple, sensitive, and accurate RNA fluorescence quantitative detection kit. This kit contains fluorescence detection reagent, buffer, and RNA standards.

This kit is highly selective for RNA and is not affected by dsDNA. It has an excellent linear relationship for RNA samples in the range of 5 - 100 ng. It can detect total RNA, rRNA, and mRNA with concentrations ranging from 250 pg/μl to 100 ng/μl. Accurate quantification of mRNA samples and excellent tolerance to common contaminants such as salts, free nucleotides, proteins, solvents, detergents, etc.

Components

Material	Concentration	BRQK031-010000 (T00-FPBR02-00) 100 Assays
EzQuant RNA HS Buffer	Not applicable	50 ml *1
EzQuant RNA HS Reagent	200X in DMSO	250 μl *1
EzQuant RNA HS Standard #1	0 ng/μl in TE Buffer	1 ml *1
EzQuant RNA HS Standard #2	10 ng/μl in TE Buffer	500 μl *2

Note: For Research Use Only. Not for use in diagnostic procedures.

Shipping and Storage

All the components are shipped with ice pack and can be stored at 2 - 8 °C away from light for six months.

Required Material (not provided)

1. P2/P20/P200 Micropipette
2. Tips
3. 0.5 ml thin wall polypropylene tubes
4. 1.5 – 2 ml microcentrifuge tubes or 15/50 ml centrifuge tubes

Perform Assay Procedure

- **Experimental preparation**

1. Equilibrate the material to the room temperature before use.
2. Prepare enough 0.5 ml thin wall polypropylene tubes and label the tube lids.
EzQuant RNA HS Assay requires 2 standards.

Note: Please do not label the side wall of the tube as this could interfere with the collection of fluorescent signals.

3. Fresh prepare the **1X Working Solution** by diluting the **EzQuant RNA HS Reagent 1:200** in **EzQuant RNA HS Buffer**.

For example, 2 standards and 5 samples, each tube requires about 200 μ l of working solution, so a total of ~1400 μ l is required. (7 μ l of EzQuant RNA HS Reagent + 1393 μ l EzQuant RNA HS Buffer)

● Prepare standards

1. Add **190 μ l** of **1X Working Solution** to the appropriate tube.
2. Add **10 μ l** of **EzQuant RNA HS Standard #1** and **EzQuant RNA HS Standard #2** to the appropriate tube.
3. Vortex gently for 2-3 seconds and avoid creating air bubbles.

Note: If you do not need to establish a standard curve, you can skip this step.

● Prepare samples

1. Add **180 - 199 μ l** of **1X Working Solution** to the appropriate tube.
2. Add **1 - 20 μ l** of **samples** to the appropriate tube such that the final volume is 200 μ l.
3. Vortex gently for 2-3 seconds and avoid creating air bubbles.

● Detection

1. Incubate at room temperature for 2 minutes in the dark.
2. Follow procedure appropriate for your instrument.

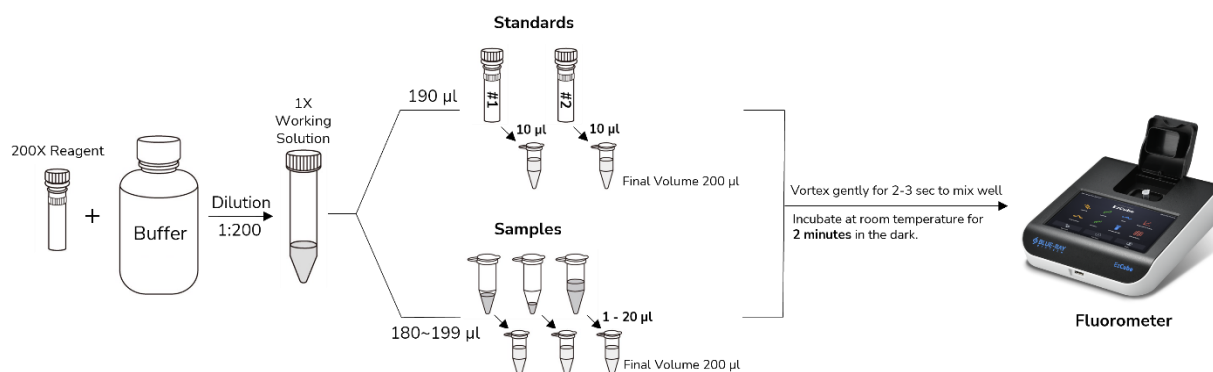


Figure 1. Workflow using EzQuant RNA HS Quantification Kit.

Table 1. Effects of contaminants on the results of EzQuant RNA HS Quantification Kit

Contaminant	Final concentration in the assay	Detection Results
Salts		
Ammonium acetate	10 mM	OK
Sodium chloride	10 mM	OK
Organic Solvents		
Phenol	0.1%	OK
Ethanol	1%	OK
Chloroform	0.2%	OK
Detergents		
Triton X-100	0.001%	OK
Other compounds		
Bovine serum albumin	20 µg/ml	OK
dNTPs	100 µM	OK
ssDNA	1X*	OK
Oligos	1X*	OK
dsDNA	1X*	OK

Ordering Information

Catalog No.	Description
BRFP-0200	EzCube Fluorometer (Blue & Red)
BRFP-0300	EzCube Fluorometer (Blue, Red & Green)
BRQK011-010000	EzQuant 1X dsDNA HS Quantification Kit (100 Assays)
BRQK011-050000	EzQuant 1X dsDNA HS Quantification Kit (500 Assays)
BRQK020-010000	EzQuant ssDNA Quantification Kit (100 Assays)
BRQK031-010000	EzQuant RNA HS Quantification Kit (100 Assays)
BRQK100-050000	0.5 ml Thin Wall PCR Tube

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