

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 | Amount 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 | 250 μl *4 |

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.

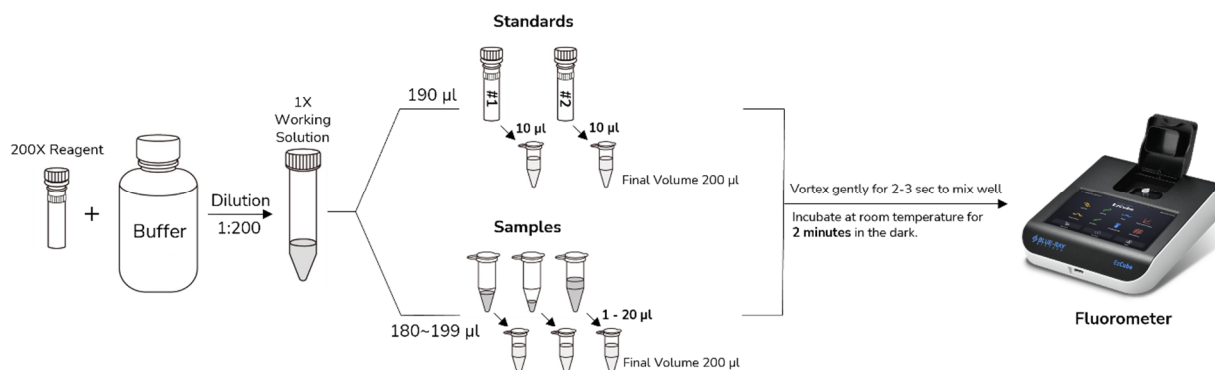


Figure 1. Workflow using EzQuant RNA HS Quantification Kit.

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) |
| T00-FPBR00-00 | EzQuant 1X dsDNA HS Quantification Kit (100 Assays) |
| T00-FPBR04-00 | EzQuant 1X dsDNA HS Quantification Kit (500 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 |

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