

## RNA BR Assay Kit

Product Number: PC12801

---

### Shipping and Storage

Transport at room temperature. Store at 2–8°C in a dry and dark place. The shelf life is 12 months.

### Component

Component	Concentration	100T
RNA BR Buffer	1×	50mL
RNA BR Standard 1	0ng/μL (in TE buffer)	1mL
RNA BR Standard 2	10ng/μL (in TE buffer)	1mL
RNA Reagent	200×	0.25mL

### Description

The RNA BR Assay Kit features high sensitivity, excellent tolerance, simple operation and wide applicability. This kit contains assay buffer, RNA standards and nucleic acid dye. Simply prepare the working solution before testing, then determine the nucleic acid concentration with a fluorometer. The assay is performed at room temperature, and 22–28°C is the optimal temperature for best performance. The kit shows strong resistance to common contaminants including salts, free nucleotides, solvents, detergents and proteins.

### Compatible Fluorometers

Qubit 2.0 Fluorometer; Qubit 3 Fluorometer; Qubit 4 Fluorometer; Flex Fluorometers; Microplate Reader.

### Protocol

#### 1. Fluorometer Calibration with Standards

You may perform a new calibration for each test or use previously saved calibration data. Routine calibration is recommended every two weeks. Calibration is mandatory whenever a new kit is used.

#### 2. Preparation of Working Solution.

2.1. Pipette 199μL of RNA BR Buffer per test into a plastic EP tube, then add 1μL of RNA reagent per test. Vortex thoroughly to mix.

Note: Reagents tend to adsorb to glass surfaces. Prepare the working solution in plastic containers (PP EP tubes or centrifuge tubes are recommended). Wrap the prepared working solution with aluminum foil or store it in the dark, and keep it at 2–8°C away from light.

#### 3. Preparation of Samples and Standards

3.1. Use 0.5mL thin-walled transparent assay tubes. Two standards are required for this assay.

3.2. Label the tube caps clearly for standard tubes and sample tubes.

3.3. Add 10μL of RNA BR Standard 1 and Standard 2 to the corresponding standard tubes respectively.

3.4. Add 1–20μL of sample to each sample tube.

3.5. Add RNA BR Working Solution to each tube to make the final volume up to 200μL.

Note: Add 190μL of Working Solution to each standard tube, add 180–199μL of Working Solution to each sample tube, do not mix solutions in glass containers.

3.6. Vortex for 5 seconds gently (avoid foaming), then perform a brief centrifugation.

3.7. Incubate all tubes at room temperature for 2 minutes.

#### 4. Quantitative Detection

Turn on the fluorometer, select the RNA BR program, run the assay and record the results. Refer to the user manual of your



**Tinzyme Co., Limited**

Email: [sales@tinzyme.com](mailto:sales@tinzyme.com)

Website: [www.tinzyme.com](http://www.tinzyme.com)

Tel: +86-755-86134126

WhatsApp/Facebook/Twitter: +86-189-22896756

specific fluorometer for detailed operations.

**5. Result Analysis**