EasyPure® Fast Cell RNA Kit

Please read the manual carefully prior to use.

Cat. No. ER111

Version No. Version 1.0

Storage: at room temperature(15°C-25°C) in a dry place for one year

Description

This kit uses a unique lysis solution to rapidly lyse animal cells, simultaneously inactivate endogenous RNase in cells, and provides a specific and efficient environment for the combination of RNA and silica membrane. This kit can quickly (<7 minutes) complete the extraction of RNA from 1-6×10^6 animal cells, without phenol and chloroform. Purified total RNA with high purity can be used for RT-PCR, qRT-PCR, chip analysis, Northern Blot, NGS, etc.

Features

- Fast: extraction completes in 7 minutes
- Safety: no need for organic reagents such as phenol and chloroform
- High purity: efficient removal of impurity contamination

Kit Contents

Component	ER111-01 (50 rxns)	ER111-02 (200 rxns)
Lysis Buffer 50 (LB50)	30 ml	120 ml
Wash Buffer 50 (WB50)	12 ml	48 ml
RNase-free Water	10 ml	30 ml
RNase-free Tubes (1.5 ml)	50	200
RNA Spin Columns with Collection Tubes	50	200

Reagents not included in the kit: Absolute ethanol

Protocol

Add absolute ethanol (self-prepared) to the WB50 according to the table below before use.

Component	ER111 (50 rxns)	ER111 (200 rxns)
Wash Buffer 50 (WB50)	48 ml	192 ml

1.Collecting cells

a. Centrifuge the suspended cells or adherent cells that have been digested at 2-8°C. Discard the supernatant and leave the cell pellet.

b. Cell pellets stored at -80°C need to be thawed completely on ice first.

2. Cell lysis

Add 500 µl of LB50, immediately vortex to mix until cell-free mass, and stay still for 1 min at room temperature.

* This step may produce flocculent pellet, transfer all to spin column (RNA Spin Columns with Collection Tubes).

3. Transfer the lysis mixture to a spin column, centrifuge at 13,500×g for 30 seconds, and discard the flow-through.

4. Add 500 µl WB50 (check whether absolute ethanol has been added), centrifuge at 13,500×g for 30 seconds, and discard the flow-through.

5. Repeat step 4.

6. Place the spin column back into the collection tube. Centrifuge at 13,500×g for 2 min to completely remove residual ethanol.

7. Transfer the spin column to a new 1.5 ml RNase-free Tube. Add 30-100 µl RNase-free Water to the center of the spin column. Stay still at room temperature for 1 min. Centrifuge at 13,500×g for 1 min to elute RNA.

8. Store RNA at -80°C.

* The volumn of RNase-free Water can be controlled to adjust the concentration of the extraction product according to experimental needs.
* To increase yield, perform a second elution by repeating step 7.

Notes

- Cell samples should not be frozen and thawed repeatedly to avoid affecting the extraction effect.
- Wear a mask and latex gloves during operation, and use RNase-free pipette tips and centrifuge tubes to avoid external RNase contamination.

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