

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 $1-6 \times 10^6$ 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

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

- Transfer the lysis mixture to a spin column, centrifuge at $13,500 \times g$ for 30 seconds, and discard the flow-through.
- Add 500 µl WB50 (check whether absolute ethanol has been added), centrifuge at $13,500 \times g$ for 30 seconds, and discard the flow-through.
- Repeat step 4.
- Place the spin column back into the collection tube. Centrifuge at $13,500 \times g$ for 2 min to completely remove residual ethanol.
- 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 $13,500 \times g$ for 1 min to elute RNA.



8. Store RNA at -80°C .

- * The volume 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.

For research use only, not for clinical diagnosis.

Version number: V1.0-202309

Service telephone +86-10-57815020

Service email complaints@transgen.com

