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Column-Pure™ Animal Total RNA Mini-Preps Kit
Cat. No. D2312-100

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Catalog No.: D2312-100

Product Name: **Column-Pure™ Animal Total RNA Mini-Preps Kit**

Size: **100 preps**

Description: This kit is designed for fast and efficient extraction of high quality total RNA from animal tissues and other cells using a rapid-spin-column format. RNA in lysates is selectively absorbed to the spin column, and impurities are washed away. Purified total RNA can be used for various applications, such as, Northern Blot, cDNA synthesis, RT-PCR and qRT-PCR. The kit is suitable for extraction of total RNA from tissues of various animal sources.

Kit Contents:

Lysis Buffer-AG	2x25ml	RNase-Free Water	2x5ml
GT Solution*	2x18ml	Spin Column Set	2x50
NT Solution*	2x6ml		

*GT Solution and NT Solution are supplied in a concentrated form. Before use, add **12 ml** of ethanol (96-100%) to the bottle containing 18 ml concentrated **GT Solution,** and **24 ml** of ethanol (96-100%) to the bottle containing 6 ml concentrated **NT Solution**.

Storage: Store this kit at room temperature.

Features

- Fast. Using a rapid spin-column format, the entire procedure takes approximately 15 minutes.
- High Purity of RNA. OD260/OD280 ratio of purified RNA is generally > 1.9.
- Compatible with downstream applications such as Northern Blot, cDNA synthesis, RT-PCR and qRT-PCR.
- High Quality RNA. Lysis Buffer-AG maintains the integrity of the RNA.

Note: Care must be taken when working with RNA. It is important to maintain an RNase-free environment starting with RNA sample preparation and continuing through purification and analysis. Use RNase free tubes, tips, and gels. Wear gloves at all times.

This kit is for research use only.

Protocol

Notes before starting:

- Add 12 ml of ethanol (96-100%) to the bottle containing 18 ml concentrated **GT Solution**.
- And 24 ml of ethanol (96-100%) to the bottle containing 6 ml concentrated **NT Solution**.

1. **Cells:** Lyse up to $5x10^6$ cells as cell pellet or directly in the culture plate with 350 µl Lysis Buffer-AG.
   Tissues: Grind 20-30mg animal tissue to a fine powder in liquid nitrogen and add 350 µl Lysis Buffer-AG, or disrupt and homogenize 20-30mg animal tissue in 350 µl Lysis Buffer-AG.

2. Transfer the sample into a 1.5 ml RNase-free centrifuge tube and mix by inverting and shaking.

3. Incubate at room temperature for 5 minutes to make sure the cells are completely lysed, and centrifuge 5 minutes at the maximum speed.

4. Transfer the supernatant by pipetting into a new 1.5 ml RNase-free centrifuge tube.

5. Add 1/2 volume of ethanol, and mix by inverting the tube.

6. Transfer the solution to the spin column. Centrifuge at the maximum speed for 1 minute at room temperature and discard the flow-through.

7. Add 0.5 ml of **GT Solution** to the column, centrifuge at the maximum speed for 1 minute at room temperature and discard the flowthrough.

8. Add 0.5 ml of **NT Solution** to the column, centrifuge at the maximum speed for 1 minute at room temperature and discard the flowthrough.

9. Centrifuge the column at the maximum speed for one additional minute at room temperature to thoroughly remove any residual ethanol.

10. Place the column in a new 1.5 ml RNase-Free centrifuge tube, add 50 µl **RNase-free Water**, and keep at room temperature for 2 minutes.

11. To elute the RNA, centrifuge the column at the maximum speed for 1 minute at room temperature.

12. The RNA is now ready to use, or store the RNA solution at -80°C.

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