BOSTER BIOLOGICAL TECHNOLOGY
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RNA Purification Kit

Catalog number: MB1006

This package insert must be read in its entirety before using this product.
For research use only. Not for use in diagnostic procedures.

RNA Purification Kit

Catalog Number: MB1006, **Size:** 100 Reactions, 500 Reactions **Storage:** 2 years at room temperature.

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antibody and ELISA experts

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Introduction

RNA Purification Kit provides a simple spin column technique for preparation of high quality, high-purity intact total RNA. The reagent contains disruptive and protective properties of guanidine isothiocyanate and beta□mercaptoethanol to inactivate the ribonucleases present in cell extracts. RNA in the whole homogeneity is selectively absorbed on spin column and other impurities are washed away. Total RNA is eluted from the membrane in the presence of RNase□free water.

5-15 ug total RNA can be purified from 25 mg animal tissue using this kit. Purifed RNA is ready for most downstream applications such as RT-PCR, Northern Bloting, Poly (A) selection and in vitro translation.

Features

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

List of Components

Size	50 Preps	250 Preps
Buffer Rlysis□AG	25 ml	125 ml
Universal GT Solution*	18 ml	90 ml
Universal NT Solution*	6 ml	30 ml
RNase□free Water	5 ml	25 ml
Spin Column	50	250
2 ml Collection Tube	50	250
Protocol	1	1

Materials Supplied by User:

Microcentrifuge capable of at least 12,000 × g
RNase-Free pipets and pipet ps
Vortexer
RNase-Free Ethanol (96□100%)
RNase-Free Microcentrifuge tubes (1.5ml or 2ml)

Procedures:

1. Add 350 ul Buffer Rlysis□AG into RNase□Free 1.5 ml centrifuge tubes.
2. Grind 25~50 mg animal ssue to fine powder in liquid nitrogen. Transfer the powder to the 1.5 ml RNase□free centrifuge tube in step 1 and mix by inverng immediately.
3. Incubate at room temperature for 5 minutes to make sure the cells are completely lysed.
4. Add 1/2 volume of ethanol, mix by inverng the tube.
5. Transfer the soluon to the spin column. Centrifuge at 12,000 × g for 30 sec at room temperature, discard the flow□through.
6. Add 0.5 ml of Universal GT Soluon to the column, centrifuge at 12,000 × g for 30 sec at room temperature, discard the flow-through.
7. Add 0.5 ml of Universal NT Soluon to the column, centrifuge at 12,000 × g for 30 sec at room temperature, discard the flow-through.

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8. Centrifuge the column at 12,000 × g for addional 30 sec at room temperature. Note: This step is very important to remove the residual ethanol thoroughly.
9. Place the column in a new 1.5 ml RNase□Free centrifuge tube. Add 50 ul RNase□free Water. Keep at room temperature for 2 minutes. Centrifuge at 12,000 × g for 30 sec at room temperature, store RNA soluon at □80°C.