BIO BASIC
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Product information

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EZ-10 Spin Column Plant RNA Mini-Preps Kit

Catalog #: BS82314
Size: 50 preps
Storage: 4°C (transport at RT)

Product Description:

Polysaccharides and polyphenols are components of plants, It is very difficult to remove after form insoluble compounds closely combining with RNA. EZ Spin Column Plant total RNA Purification Kit is applicable to all kinds of plant samples RNA rapid extraction. Cracking liquid can effectively solve the difficult problem such as polyphenols easy oxidation, polysaccharide separation and nucleic acids compounds. RNA Purification using spin column is easy to operate, avoid ethanol rinse. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly A+ purification, nuclease protection and in vitro translation.

Contents:

Components	BS82314 50 Preps
Buffer Rlysis-PG	25 ml
Universal GT Solution*	18 ml
Universal NT Solution*	6 ml
RNase-free Water	5 ml
EZ-10 Spin Columns	50
2 ml Collection Tube	50
Protocol	1

Materials Supplied by User:

1. Microcentrifuge capable of at least 12,000 × g.
2. RNase-Free pipets and pipet tips.
3. Vortexer.
4. RNase-Free Ethanol (96-100%).
5. RNase-Free Microcentrifuge tubes (1.5 ml or 2 ml).

** Universal GT Solution and Universal NT Solution are supplied in a concentrated form, before use: add **12 ml 96-100% ethanol** to 18 ml concentrated **universal GT solution** and add **24 ml 96-100% ethanol** to 6 ml concentrated **universal NT solution** to make a work solution.*

Features:

- Fast. Using a rapid spin-column format, the entire procedure takes approx 30 minutes.
- Versatile. Suitable for isolation of RNA from a wide range of specimens such as arabidopsis thaliana, tobacco, camphor and other samples.
- High Quality of RNA. Complete removal of contaminants such as genomic DNA, polysaccharides, polyphenols and other impurities. An OD260/OD280 ratio of purified RNA is generally > 1.9.

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

Procedure:

1. Add 450 µl Buffer Rlysis-PG into RNase-Free 1.5 ml centrifuge tubes.

2. Grind 25~50 mg plant tissue to fine powder in liquid nitrogen, transfer the powder to the 1.5 ml RNase-free centrifuge tube and mix by inverting immediately.

3. Incubate at room temperature for 5 minutes to make sure the cells are completely lysed.

4. Centrifuge at 12,000 × g for 5 minutes. Transfer the supernatant to a new RNase-Free 1.5 ml centrifuge tube.

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

6. Transfer the solution to the spin column, centrifuge at 12,000 × g for 30 sec. at room temperature, discard the flow-through.

7. Add 0.5 ml of Universal GT Solution to the column, centrifuge at 12,000 × g for 30 sec. at room temperature, discard the flow-through.

8. Add 0.5 ml of Universal NT Solution to the column, centrifuge at 12,000 × g for 30 sec. at room temperature, discard the flow-through.

9. Centrifuge the column at 12,000 × g for 30 sec. at room temperature.

Note: This step is very important to remove the residual ethanol thoroughly.

10. Put the column to a new 1.5 ml centrifuge tube, add 50 µl RNase-free Water, and keep at room temperature for 2 minutes. Centrifuge at 12,000 × g for 30 sec. at room temperature, save the eluted RNA solution at -80°C.

Storage:

Long term storage at 4°C. Transportation at room temperature. Please refer to kit label for expiry date.