

Product information

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EZ-10 Spin Column Fungal RNA Mini-Preps Kit

Catalog #: BS91915
Size: 50 Prep
Storage: 4°C

About:

The kit is designed for preparation of high quality total RNA from a wide range of fungal species. Fungal samples are lysed and homogenized by Buffer Rlysis-FG. 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 in the final step. 3-5µg total RNA can be purified from 30mg filamentous fungi using this kit. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly A+ purification, nuclease protection and in vitro translation.

Contents:

Description	Size
Buffer Rlysis-FG	25 ml
Universal GT Solution*	18 ml
Universal NT Solution*	6 ml
RNase-free Water	5 ml
EZ-10 Spin Column	50
2 ml Collection Tube	50
Protocol	1

* 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 24 ml 96-100% ethanol to 6 ml concentrated universal NT solution to make a work solution.

Materials Supplied by User:

- Microcentrifuge capable of at least 12,000 × g.
- RNase-Free pipettes and pipette tips.
- Vortexer.
- RNase-Free Ethanol (96-100%).
- RNase-Free Microcentrifuge tubes (1.5 ml or 2 ml).

Features:

- Fast. Using a rapid spin-column format, the entire procedure takes approx 20 minutes.
- High quality of RNA. OD₂₆₀/OD₂₈₀ ratio of purified RNA is generally > 1.8.
- Intact RNA: NO RNA degradation and integrity maintained.
- Economic.

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 350 μ l Buffer Rlysis-FG into a RNase-Free 1.5 ml centrifuge tube.
2. Grind cell pellets collected from 0.1~2 ml fungi culture by centrifugation or 100-500 mg (wet weight) mycelia/spores in liquid nitrogen using a pestle. Transfer the grounded sample to the RNase-Free 1.5 ml tube from step 1.
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 inverting the tube.
5. Transfer the solution to the spin column, centrifuge at 12,000 \times g for 30 sec at room temperature, discard the flow-through.
6. Add 0.5 ml of Universal GT Solution to the column, centrifuge at 12,000 \times g for 30 sec at room temperature, discard the flow-through.
7. Add 0.5 ml of Universal NT Solution to the column, centrifuge at 12,000 \times g for 30 sec at room temperature, discard the flow-through.
8. Centrifuge the column at 12,000 \times g for additional 30 sec at room temperature.

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

9. Place the column in a new RNase-Free 1.5 ml centrifuge tube. Add 50 μ l RNase-free Water. Keep at room temperature for 2 minutes. Centrifuge at 12,000 \times g for 30 sec at room temperature, store RNA solution at -80°C.



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NOT INTENDED FOR HUMAN OR ANIMAL USE.