PRODUCT INFORMATION

EZ-10 Spin Column Fungal RNA Mini-Preps Kit

Product information for BS91915:

Kit Contents

Components	BS91915, 50 Preps
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.

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.

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Storage

The kit is valid for 1 year at 4°C.

Introduction

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.

Features

- **ü** Fast. Using a rapid spin-column format, the entire procedure takes approx 20 minutes.
- **ü** High quality of RNA. $OD_{260/280}$ of purified RNA is generally >1.8.
- **ü** Intact RNA: NO RNA degradation and integrity maintained.
- **ü** Economic.

Materials Supplied by User:

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

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Procedures

1. Add 350 µl 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 × *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 × *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 × *g* for 30 sec at room temperature, discard the flow-through.
8. Centrifuge the column at 12,000 × *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 µl RNase-free Water. Keep at room temperature for 2 minutes. Centrifuge at 12,000 × *g* for 30 sec at room temperature, store RNA solution at -80°C.

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PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY!
NOT INTENDED FOR HUMAN OR ANIMAL USE!

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