PRODUCT INFORMATION

Rapid Fungal RNA Extraction Kit

Product information for FT71416:

Kit Contents

Components	FT71416, 50 Preps
Buffer Rlysis-F	50 ml
RNase-free Water	5 ml
Protocol	1

Storage

Transportation at ambient temperature. Upon receipt, store components at 4°C.The kit is valid for 1 year at 4°C.

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Introduction

This kit is designed for preparation of high quality total RNA from a wide range of fungal species. Total RNA can be purified from fresh or frozen filamentous fungi samples 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.
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.

Features

- ü Simple and rapid procedure. The entire procedure takes approx 40 minutes.
- ü High Quality of RNA. No DNA contamination is observed. OD260/OD280 ratio of purified RNA is generally > 1.8.
- ü Easy to scale up.
- 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. 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 a 1.5 ml RNase-free centrifuge tube.
2. Using RNase-free pipet tips, add 1 ml Buffer Rlysis-F and mix by inverting immediately.
3. Incubate at room temperature for 5 minutes to make sure the cells are completely lysed.
4. Add 200 µl chloroform to the tub, mix by inverting.
5. Centrifuge at 12,000 x g for 5 minutes at 4°C. Transfer the supernatant to a new RNase-free 1.5 ml tube.
6. Add 1/3 volume of ethanol to the tube, vortex for 30 seconds.

   Note: Incubating at -20°C for 5-10 minutes can improve RNA yield.
7. Centrifuge at 12,000 x g for 5 minutes at 4°C. Discard the supernatant carefully.
8. Add 1 ml of RNase-free 75% ethanol to the tube, mix well by inverting 10 times. Centrifuge at 12,000 x g for 1 minute, discard the supernatant.
9. Repeat Step 8 once.
10. Air-dry the pellet at room temperature with the lid open for 2~5 minutes.

    Note1: This step is very important, residual ethanol in RNA may interfere with downstream applications.

    Note2: Don't over dry.
11. Add 30~50 µl of RNase-free Water to dissolve RNA pellet.

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Purified RNA is ready for use. Store RNA at -70°C for long term storage.

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

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