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FavorPrep™ Tri-RNA Reagent

Catalogue Number: FATRR 000/001/002

Components：5 ml/100 ml/50 ml per bottle

Product description

FavorPrep™ Tri-RNA Reagent is a ready-to-use reagent for quick and high-quality one-step RNA isolation. The Tri-RNA Reagent is a mono-phase solution composed of phenol and guanidine isothiocyanate. This reagent mainly designed for total RNA purification, and it is also allowed to isolate DNA and protein. During sample homogenization and lysis, this reagent maintains the integrity of RNA even in the smallest molecular size. The isolated RNA can be used in various downstream applications.

Features

- ★ **Compatible:** Single step for the isolation of total RNA from tissues, cells, bacteria, plants, yeasts and biological fluids
- ★ **Rapid:** The entire procedure for total RNA isolation is less than 1 hour.
- ★ **Convenience:** Available for the isolation of RNA, DNA and protein.
- ★ **High Quality:** The purified RNA can be applied in: RT-PCR, Northern hybridization, RNase protection, Poly-A+RNA selection, Differential display, and Micro-array assay.

Specification

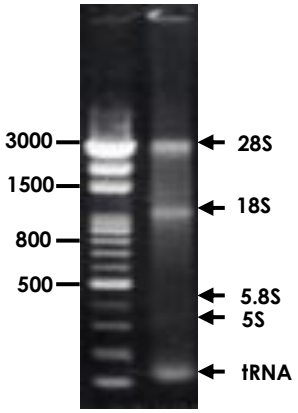
Format/Principle: Organic Extraction
Sample Size: Up to 5×10^6 culture cells; up to 100 mg tissue
Operation Time: Within 60 minutes

Storage：

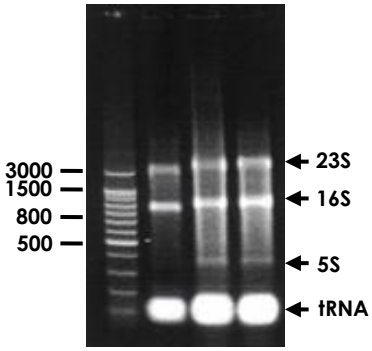
Store at 4℃ in the brown glass bottle for routine use.

Procedure:

1. Add 1 ml of Tri-RNA Reagent to 100 mg tissue (or precipitated blood RNA viruses from up to 10 ml of blood or 10^6 cultured cells, or 10 cm^2 of culture plate)
2. Homogenize tissue samples in Tri-RNA Reagent using a glass-Teflon or Polytron homogenizer (cultured cells can be lysed by repetitive pipetting; concentrated blood RNA viruses can be lysed by vigorous vortexing).
3. Leave the homogenates for 5 minutes at room temperature.
4. Add 0.2 ml of chloroform (not provided) and mix vigorously.
5. Centrifuge at 12,000 rpm for 3 minutes to separate the phases, RNA is in the clear upper aqueous phase.
6. Transfer the RNA phase to a clean tube.
7. RNA is precipitated by adding 1x volume of isopropanol, vortex, leave at room temperature for 10 minutes, and then centrifuge at 12,000 rpm for 15 minutes.
8. Remove the supernatant.
9. Wash the RNA pellet with 0.5 ml ice cold 70% ethanol, centrifuge at 12,000 rpm for 1 minute, and carefully remove the supernatant.
10. A brief spin to make sure the RNA pellet is precipitated to the designated side wall of the tube and then carefully remove any residue supernatant without touching the RNA pellet.
11. Resuspend the RNA in a small volume of TE, pH 8.0.
12. Store the samples at -80°C and used for cDNA synthesis.



Total RNA purified from human adipocytes using Tri-RNA reagent.



Total RNA purified from E. coli cells using Tri-RNA reagent.