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RNA Stabilization Solution

Catalogue Number: FARSS 000/001
Components：5 ml/100 ml per bottle

Product description

Obtaining high quality, intact RNA is the first and often the most critical step in performing gene expression analysis. Typically, in order to isolate high quality RNA, the tissue has to be processed immediately after harvest. RNA Solution makes it possible for researchers to postpone RNA isolation for days, weeks, or even months after tissue collection without sacrificing RNA integrity. In addition, for RNA stabilization, RNA Solution can be easily integrated into a modified single-step RNA isolation method. This modified single-step method isolates integrity RNA from tissues or cells in hours and makes it possible to process a large number of samples simultaneously.

Features

- ★ **Rapid:** The entire procedure for total RNA isolation is less than 1 hr.
- ★ **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.
- ★ **Easy To Use:** Consistent and reproducible for most sample types.

Specification

Principle: Organic Extraction
Sample size: up to 1×10^7 culture cells
up to 100 mg tissue
Operation time: within 60 mins

Storage：

Store at room temperature.

Procedure:

1. Store 100 mg of tissue or 1×10^7cells (isolated from culture or blood) with 1 ml of RNA Stabilization Solution at –20°C until RNA isolation.
2. When processing, thaw and homogenize tissue in RNA Stabilization Solution.
3. Transfer 0.8 ml of the homogenate/cell mix into a 2 ml tube and add 0.8 ml of the acid-phenol, pH 5.2, and 320 µl of chloroform.
4. Vortex the mixture vigorously by mixing 4 times, 30 sec for each.
5. Centrifuge at 12,000 rpm for 10 mins at 4°C.
6. Transfer the upper aqueous phase (containing RNA) to a fresh 2 ml tube, taking care not to disturb the interface (containing DNA/protein).
7. Precipitate the RNA by adding an equal volume (0.8 ml) of isopropanol and 80 µl of 3 M NaOAc at –20℃ for 30 mins.
8. Centrifuge at 12,000 rpm for 15 mins at 4°C and discard the supernatant.
9. Wash the RNA pellet by using 500 µl of 70% ethanol and gentle inverting the tube for several times.
10. Centrifuge at 12,000 rpm for 5 mins and careful removing the supernatant, let the RNA pellet to air dry for about 5~10 mins.
11. Dissolve the RNA pellet in 20~50 µl DEPC-treated TE.
12. Store the samples at - 80°C and used for cDNA synthesis.