

RNAhold®

Please read the manual carefully before use

Cat. No. EH101

Storage: at 15°C-30°C for two years

Description

RNAhold® is a tissue preservation solution. It can inactivate RNase and keep RNA intact by permeating cells and tissues. It can be used for RNA preservation with bacteria, cells, and fresh, non-frozen tissue samples from various animals.

Procedure

I. Sample preparation

RNAhold® may form precipitates at low temperatures. If precipitation occurs, it should be completely dissolved by warming at 37°C.

1. Fresh, non-frozen tissue sample

(1) The amount of *RNAhold®*: The ratio of tissue sample to *RNAhold®* is 1:5-10. For example, use 0.5-1 ml *RNAhold®* for 0.1 g tissue samples, and immerse sample completely into *RNAhold®*.

(2) Quickly cut up large samples into small pieces (<0.5 cm) in any single dimension, and immerse it into *RNAhold®*.
(Small organs such as mouse kidney or spleen can be stored in *RNAhold®* solution directly).

2. Animal cells and bacteria

(1) Centrifuge the suspension of cells or bacteria, discard the supernatant.

(2) Wash the pellet once with 50-100 µl of ice-cold PBS.

(3) Resuspend the pellet in 50-100 µl of ice-cold PBS.

(4) Add 5-10 volumes of *RNAhold®* solution and mix thoroughly.

3. White blood cells in whole blood

(1) Separate the white blood cells from the red blood cells and sera.

(2) Wash the pellet once with 50-100 µl of ice-cold PBS.

(3) Resuspend the pellet in 50-100 µl of ice-cold PBS.

(4) Add 5-10 volumes of *RNAhold®* solution and mix thoroughly.

II. Sample storage

1. Samples in *RNAhold®* solution can be stored at 2-8°C for at least one month, at room temperature for one week, or at 37 °C for one day.

2. Long-term storage at -20 °C: incubate the samples in *RNAhold®* solution overnight at 2-8 °C to allow thorough penetration of the sample, then transfer to -20°C.

3. Long-term storage at -70°C: incubate the samples in *RNAhold®* solution overnight at 2-8°C to allow thorough penetration of the tissue. Centrifuge and discard the preservation solution, then transfer to -70°C.

III. RNA isolation

1. For tissue samples, retrieve tissue from *RNAhold®* solution with sterile forceps to start RNA isolation.

2. For cell samples, samples storage at 2-8°C, -20°C and room temperature, centrifuge and remove solution prior to extraction;

storage at -70°C can be extracted without centrifugation.

Note

- Tissues stored in *RNAhold®* solution can be frozen and thawed at least 20 times.
- *RNAhold®* requires a higher centrifugation force than common media due to its greater density.

For research use only, not for clinical diagnosis.

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