

RNA Keeper Tissue Stabilizer

Catalog# R501-01

Version 8.1



Vazyme Biotech Co., Ltd

Introduction

RNA Keeper Tissue Stabilizer is a non-toxic solution that quickly penetrates into tissues, inactivates endogenous RNase, and immediately stabilizes and protects RNA integrity. Immersed in RNA Keeper Tissue Stabilizer, fresh tissue samples can be stored at 37°C for 1 day, room temperature for 1 week, 4°C for 4 weeks or stored at -20°C / -80°C for a long time, they are not required to be frozen in liquid nitrogen, and repeated Freeze-thaw does not significantly affect the integrity of the RNA. Samples stored in the RNA Keeper Tissue Stabilizer can be directly used for RNA extraction using RNA isolater total RNA extraction reagent (R401-01) or spin column. RNA Keeper Tissue Stabilizer can be also used for the preservation of tissues such as brain, heart, liver, pancreas, kidney, spleen, testes, muscles and the like.

Package Information

Components	R501-01
RNA Keeper Tissue Stabilizer	100 ml

Storage

Store at room temperature.

Protocol

1. Sample Preparation

- 1/ Animal tissue, plant material*: Cut animal tissue (or plant material) into tissue pieces of about 0.5 cm square, and add 5 volumes of RNA Keeper.
- 2/ Cultured cells, white blood cells: Collect cells according to standard experimental procedures, wash with PBS and add 5-10 volumes of RNA Keeper.
- 3/ Yeast: Collect about 10⁸ cells (12,000 g, 2 min) and discard the supernatant. Add 0.5 to 1 ml of RNA Keeper. Yeast cells should be placed in RNA Keeper for long-term storage, left at room temperature or 4°C for 1 hour, then centrifuged to collect cells (12,000 g, 5 min), discard the supernatant, and store at -80°C.

*Applicable only to softer plant tissues, such as young leaves, tender stems, etc.; if there is wax on the surface of plant tissue, RNA Keeper can not fully penetrate, which seriously affecting the RNA protection effect.

2. Sample Storage

Samples are generally stable for 4 weeks at 4 °C. For long-term storage at -20°C / -80°C, the sample needs to be immersed in RNA Keeper, placed at 4°C overnight, let the solution fully infiltrated into the tissue, and then transferred to -20°C / -80°C.

3. RNA Extraction

- 1/ Removal of RNA Keeper: Tissue blocks can be removed directly from the RNA Keeper using sterile forceps; cells should be centrifuged (>5,000 g, 5 min) to collect cell pellets. Due to the high density of RNA Keeper, it is necessary to use a centrifugal force greater than that of ordinary media.
- 2/ The excess RNA Keeper in tissue samples can be squeezed out with sterile forceps and the surface liquid is gently aspirated with absorbent paper; immediately placed in the lysate and homogenized.
- 3/ Extract RNA using a variety of common RNA extraction kits.



ISO 9001: 2015



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