

RNA Keeper™ Tissue Sample Storage Reagent

Cat no. PT-R485-100 ml

PT-R485-500 ml

Store at RT, if precipitates form, warm at 37°C to re-dissolve.

Description:

RNA Keeper™ is a non-toxin reagent to protect RNA of tissue samples from degradation prior to RNA extraction. The samples storage in RNA Keeper™ are stable for a day at 37°C, 1 week at RT, one month at 4°C and indefinitely at -20°C. This reagent is suitable for various samples from animal, plant tissues, culture cells and bacteria without using liquid nitrogen or -70°C freezer. The purified RNA is high quality and intact as stored in liquid nitrogen.

Instructions:

Animal tissue: weight the tissue samples, cut the tissue samples into small pieces each with < 0.5 cm thick, and add the dissected tissues into the tube with 5 volumes of RNA Keeper reagent. (e.g., 1 g tissue need 5 ml of RNA Keeper)

Plant tissue: weight the sample, cut the tissue into small pieces and add the sample into the tube with 5 volumes of RNA Keeper reagent.

Culture cells: Spin down the cells, wash the cells with PBS buffer, resuspend the cells in PBS buffer, add 5 volumes of RNA Keeper reagent. (e.g., 100µl of PBS need 500µl of RNA Keeper)

White blood cell: Separate white blood cells from whole blood, wash with PBS buffer, resuspend the cells in PBS buffer, add 5 volumes of RNA Keeper

Note: *The RNA keeper reagent can not be used directly for whole blood sample, which will precipitate during storage.*

Bacteria: Spin down the cells, wash the cells with TE buffer, resuspend the cells in TE buffer, add 5 volumes of RNA Keeper. (e.g., 100µl of TE need 500µl of RNA Keeper)

Sample Storage:

After submersing in RNA Keeper™, the sample can be stored for a day at 37°C, 1 week at RT, one month at 4°C and indefinitely at -20°C. Sample can be thawed and frozen many times without affecting the RNA quality. It may form crystal in lower temperature, but it will not affect the RNA purification.

RNA Purification from samples in RNA Keeper™ reagent:

Tissue: remove the RNA Keeper™ reagent solution by pipetting or use a clean forceps to take out the tissue from solution, add RNA extraction lysis solution, proceed to standard protocols.

Cells: Spin down the cell at 5000 x g for 3 min, remove the RNA Keeper™ reagent, add RNA extraction lysis solution, proceed to standards protocols.

Genomic DNA Isolation from samples in RNA Keeper™ reagent:

Genomic DNA is also preserved in RNA Keeper™ reagent, the DNA purified from samples stored in it will be suitable for applications such as PCR and Southern blotting.

Protein Isolation from samples in RNA Keeper™ reagent:

Proteins are also preserved in RNA Keeper™ reagent. RNA Keeper™ reagent will denature proteins; therefore, protein purified from samples stored in it will be suitable for applications such as Western blotting or 2D gel electrophoresis, but not for applications that require native protein.

For Research Using Only.

Please do not hesitate to contact us if you have any questions.

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd

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