

RNApreserve™ Sample Protecting Reagent

Product: RNApreserve™ Sample Protecting Reagent

CATALOG: BM0020-0500

Size: 500ml

Store at RT, if precipitates form, warm at 37°C to redissolve.

DESCRIPTION

RNApreserve™ is a non-toxin reagent to protect RNA of tissue samples from degradation prior to RNA extraction. The samples storage in RNApreserve™ 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 RNApreserve™ reagent. (e.g., 1 g tissue need 5 ml of RNApreserve)

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

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

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

** The RNApreserve reagent can not be used 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 RNApreserve. (e.g., 100µl of TE need 500µl of RNApreserve)

Sample Storage:

After submersing in RNApreserve™, 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 RNAPreserve™ reagent:

Tissue: remove the RNAPreserve™ reagent solution by pipetting or use a clean forceps to take out the tissue from solution, add RNA extraction lysis solution (e.g., TheOne™ RNA Solution cat# TO-100), proceed to standard protocols.

Cells: Spin down the cell at 5000 x g for 3 min, remove the RNAPreserve™ reagent, add RNA extraction lysis solution (e.g., TheOne™ RNA Solution cat# TO-100), proceed to standards protocols.

Protein Isolation from samples in RNAPreserve™ reagent:

Proteins are also preserved in RNAPreserve™ reagent. RNAPreserve™ 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 such as protein functional assay.

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