

## Animal tissue nucleic acid/protein preservation solution

**Cat:** SR0011

**Package:** 25mL/100mL

**Storage:** 2-8°C, Valid for 1 year.

### Product description:

Solarbio animal tissue nucleic acid, protein stable preservation solution, is a non-toxic and harmless liquid reagent used for collection of animal tissue, only room temperature operation, can quickly stabilize and preserve nucleic acid and protein in tissue.

This product is widely used for the stabilization and preservation of RNA, DNA and protein in fresh animal tissue samples or cell samples, such as liver, brain, lung, spleen, kidney, heart, muscle, bone tissue, etc., and can also be used for the preservation of some plant samples.

This product will not cause protein denaturation when used for the stability and preservation of the sample protein, and can be followed by Western Blot, SDS-PAGE, enzyme activity determination and other routine protein experiments. After sample extraction, it can be homogenized directly and tissue splitting and protein extraction can be performed by conventional methods.

The preservation solution can quickly penetrate into the tissue, completely inhibit RNase, DNase and Proteinase, avoid the degradation of RNA, DNA and Protein, so as to maintain the integrity of RNA, DNA and Protein in the tissue sample. The preservation effect is the same as that of liquid nitrogen when stored in the low-temperature refrigerator at -20°C/-80°C. The RNA, DNA and Protein in the sample can be preserved for a long time.

### Product features:

1. Non-toxic and safe: This product does not have any toxicity and irritation, can be used at room temperature, can effectively avoid the use of ultra-low temperature liquid nitrogen caused by frostbite, centrifugal tube burst and other safety hazards, and carry, transport is very convenient.
2. Easy to use, fast: This product is suitable for field, clinical and other large-scale collection of animal tissue samples and can not immediately frozen samples stable preservation, the liquid has no viscosity, convenient pipette direct access, or direct dumping.
3. Tissue integrity: The tissue stored in this product can maintain its original state for a long time, without shriveled water loss.
4. 37°C for at least 3 days;  
25°C for at least 7 days, does not affect the quality of nucleic acid/protein extraction;  
4°C for at least 6 months, the protein of the sample can remain above 90%;  
The storage time is longer at -20°C/-80°C.

### Method of use:

1. Save: The tissue is cut into tissue blocks no larger than 0.5cm in width and height, and quickly and completely soaked in about 10 times the volume of animal tissue nucleic acid/protein preservation solution (for example, 100mg tissue requires about 1mL of Solarbio animal tissue nucleic acid/protein preservation solution reagent). At this time, it can be stored at room temperature for one week, at 4°C for 6 months, and at least overnight at 4°C. Can be stored at -20°C or -80°C for a long time. When the tissue mass is too large, the preservation solution is not easy to penetrate fully into the tissue center, resulting in the degradation of nucleic acids and proteins to a certain extent.
2. Treatment of samples for RNA, DNA or Protein extraction: The tissue blocks are removed from the reagent with clean tweezers, the surface residue is removed with paper towels, and the relevant extraction operations can be carried out after freezing or grinding with liquid nitrogen, or depending on the subsequent use.

### Related products:

SR0020 RNAwait (Non-frozen tissue RNA preservation solution)

R1015 Animal tissue DNA preservation solution

