

RNA Storage Tube

Product Number: EK0503

Shipping and Storage

Room temperature (15-25°C).

Component

Component	EK0501	EK0503
RNA Storage Tube	10×5 mL	80×1 mL

Description

This product can directly store small volumes of fresh tissue samples. There is no need to prepare a collection tube during operation. Simply place the processed tissue fragments with a volume of about 1 cm³ and a thickness less than 0.5 cm into the storage tube, and the sample can be completely immersed in the sample storage solution in the tube, which is convenient and fast.

The RNA sample preservation solution in the sample preservation tube is a new type of RNA stabilization reagent that can quickly penetrate into tissues to protect RNA. Its rapid protective effect ensures the accuracy of downstream gene expression analysis results. Protected RNA can be stored for 2 days at 37°C, 7 days at 18-25°C, 4 weeks at 2-8°C, and long-term at -20°C or -80°C. Even repeated freezing and thawing of RNA will not degrade. The tissue preserved by this product can be used for all subsequent experiments related to RNA, including total RNA extraction, micro RNA extraction, mRNA extraction, etc.

Preparation and important precautions before the experiment

1. If there is precipitation in the RNA sample storage solution in the tube, please place it at 37°C and use it after the precipitation dissolves.
2. The volume of the tissue sample to be preserved should be around 1 cm³, and the maximum thickness on either side should not exceed 0.5 cm. If the thickness exceeds 0.5 cm, the rate of penetration of the sample preservation solution into the tissue sample will slow down, resulting in RNA degradation. At this time, the tissue sample needs to be chopped up so that the thickness on either side of the tissue sample is less than 0.5 cm, and then the processed tissue block should be placed in a sample preservation tube for preservation.
3. If using this preservation tube to store plant leaf tissue samples, the wax skin on the surface of the leaves needs to be destroyed, because the wax on the surface of the plant leaves makes it difficult for the sample preservation solution in the tube to completely penetrate the tissue. After the wax skin is destroyed, this preservation tube can be used for preservation.

Protocol

1. Cut the sample into fragments with a thickness of less than 0.5 cm as quickly as possible.
Note: Plant samples with a wax protective layer need to first break down the wax skin.
2. Put the tissue fragments into the sample storage tube.
3. Store the storage tube under appropriate conditions, and the storage time should not exceed the maximum storage time at that temperature (see the table below for storage time).
4. RNA extraction: Retrieve the preserved tissue sample and immediately begin RNA extraction or other processing.

Storage temperature	Save time
37°C	Two days (samples stored for three days show partial degradation of RNA)
18-25°C	One week (samples stored for two weeks show slight degradation of RNA)
2-8°C	one month
-20°C and -80°C	long-term