

RNA Protect Reagent Instructions

Composition

Cat. No.	4006002	4006030
RNA Protect Reagent	2 ml	2 ml
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Storage

The reagent can be stored for up to 2 years at room temperature (0-30°C) without changes in performance. For longer storage, it is recommended to keep at 2-8°C. (The product stored at 2~8°C should be restored to room temperature before use).

Technical Support

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Introduction

RNA is unstable and easily degraded. RNA Protect Reagent can be used instead of RNase-free water or TE to dissolve the RNA precipitation, or elute the RNA from the spin column. RNA dissolved in RNA Protect Reagent can be stored at 4°C overnight or -20°C for at least 1 year without degradation. The RNA dissolved in the RNA Protect Reagent can be directly subjected to electrophoresis, Northern Blot. And the RNA can be precipitated by ethanol to recover it for other molecular biology experiments. RNA Protect Reagent is the best choice for RNA sample transportation medium or long-term preservation.

Protocol For RNA Precipitation Dissolving

- For solid RNA precipitation, add $\geq 1 \mu\text{l}$ of RNA Protect Reagent for every 0.4~4 μg of RNA precipitation, pipette and mix repeatedly or shake at room temperature for 15-30 min to dissolve precipitation. If the RNA precipitation is difficult to dissolve, it can be repeatedly pipette and mixed and incubated at 50°C for 10~15 min.
 - For liquid RNA solution, add $\geq 1 \mu\text{l}$ RNA Protect Reagent for every 0.4~4 μg RNA solution, and mix well. Note that the percentage of RNA Protect Reagent by volume in the mixed solution is not less than 80%.
- Determine the OD value. Take care to add the corresponding amount of RNA Protect Reagent to make a blank control.
- Store the dissolved RNA sample at -20°C or -70°C.

Protocol For Precipitating The RNA

- Estimate the RNA solution volume, add 4 times the volume of absolute ethanol, and mix.
- Incubate at room temperature for 5 min.
- Centrifuge at 12,000 rpm for 10 min and discard the supernatant.
- Allow to dry and precipitate at room temperature and add appropriate amount of RNase-free water or TE to dissolve the RNA precipitation.

Precautions

- RNA Protect Reagent may inhibit reverse transcriptase activity, and RNA dissolved in RNA Protect Reagent must be precipitated with ethanol before being used as RT-PCR templates.
- The optimal final concentration of RNA dissolved in the RNA Protect Reagent should not exceed 4 $\mu\text{g} / \mu\text{l}$.