

# RNA Rescue™ Stabilization Reagent

<b>Cat. No.</b>	<b>Qty.</b>	<b>Storage</b>
<b>PG-100153</b>	<b>100ml</b>	<b>RT</b>

**Quality Control**

RNA Rescue™ is manufactured in strictly clean condition, and its degree of cleanness is monitored periodically. For consistency of product, the quality certification process is carried out from lot to lot thoroughly and only the qualified is approved to be delivered.

**Storage Condition**

RNA Rescue™ should be stored at room temperature and stable at least for 1 year.

**Caution**

Storage at cold ambient temperature will cause precipitation in RNA Rescue™. If precipitate is seen, heat the solution to 37°C and agitate it for re-solubilization.

**Description**

RNA Rescue™ Stabilization Reagent is a preservation solution to stabilize cellular RNA in biological specimens such as tissues and cultured cells.

The harvested samples submerged in RNA Rescue™ can be easily stored or transported at ambient temperature without any cooling method such as liquid nitrogen or dry-ice. RNA isolation from the samples stabilized by RNA Rescue™ is compatible with most conventional or commercial RNA extraction methods.

**How to use RNA Rescue**

**Animal tissue**

Use fresh tissue only. Cut tissue samples to < 0.5 cm thick and transfer it carefully into a new tube. Completely submerge the dissected tissue in 5 ~ 10 volumes of RNA Rescue™.

**Cultured cells**

Harvest cultured cells to a new tube by centrifugation at 14,000 xg for 1 minute. Discard the supernatant as much as possible and resuspend the cell pellet thoroughly in residual supernatant or 50 ul of cold PBS. Add 5 ~ 10 volumes of RNA Rescue™ and mix well by tapping or inverting.

**Stability**

▪ **To store at room temperature**

Samples can be stored in RNA Rescue™ Stabilization Reagent up to 1 week at room temperature (15 ~ 25°C).

Storage at high ambient temperature (30 ~ 37°C) is possible for up to 1 day.

▪ **To store at 4°C**

Samples can be stored in in RNA Rescue™ Stabilization Reagent up to 1 month at 4°C without significant RNA degradation.

▪ **To store at -20°C or below**

Samples can be stored in in RNA Rescue™ Stabilization Reagent up to several months at -20°C or below.

Before stored in freezer, samples should be pre-incubated at 4°C overnight, and then transferred directly to -20°C or -80°C for long-term storage.

RNA Rescue™ solution stored at -20°C would not freeze but some precipitates may form.

There is no need to re-dissolve the precipitates that not affect subsequent RNA isolation. In storage at -80°C, the whole solution including samples will be frozen. For RNA isolation, the solution needs to thaw completely at room temperature.

Storage temperature	Storage period
37°C	1 day
18 ~ 25°C	7 days
4°C	30 days
-20°C and below	Several months



## RNA Rescue™ Stabilization Reagent

### RNA isolation from the samples in RNA Rescue™

#### Animal tissue

Remove the RNA Rescue™ solution by pipetting or take the tissue out from RNA Rescue™ with sterile forceps. Immediately submerge the samples in the lysis solution for RNA isolation and continue according to the RNA isolation procedures.

#### ▪ Cultured cells

Add 1 volume of cold PBS and mix well by inverting to reduce the density of RNA Rescue™ solution.

Centrifuge at 14,000 xg for 1 minute and discard the solution as much as possible. Add lysis buffer to the cell pellet immediately and continue according to the RNA isolation procedures.

- Precipitates formed in the preserved solution at cold temperature tend to disturb formation of cell pellet during spin down. Therefore it is recommended to transfer the preserved solution except the precipitates to a new tube before pelleting by centrifugation.

