

Wako

Keep your valuable RNA samples active long term!

Irreversible RNase Inactivation Reagent

RNA stabilizer

Wako Catalog No.180-01891

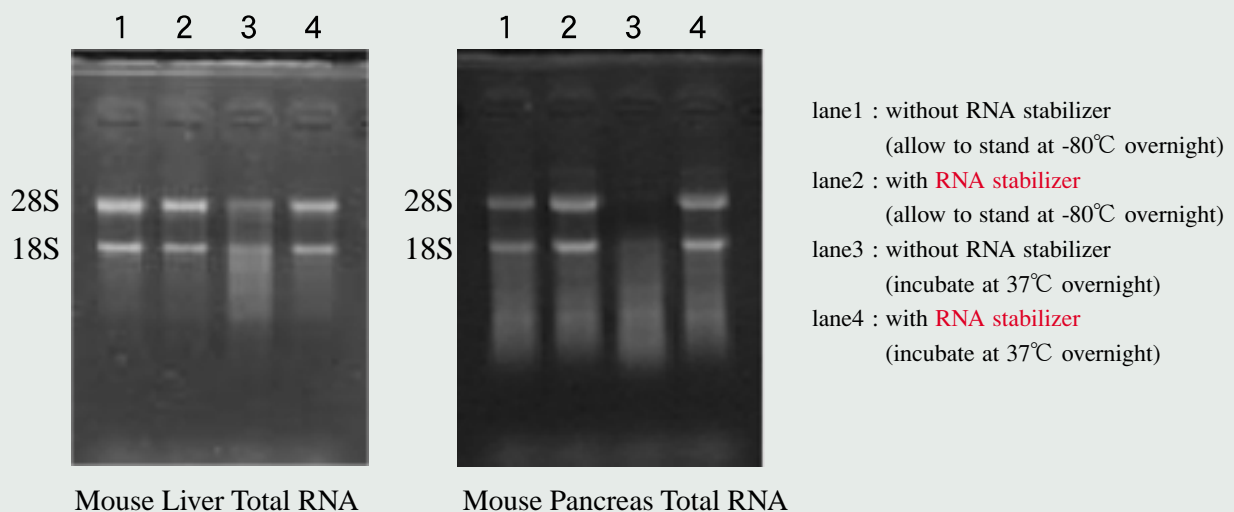
RNA stabilizer is used when RNA is purified from various organs and for improving the stability of obtained RNA. RNA stabilizer is particularly useful for the purification of high quality RNA from the pancreas or liver. When RNA stabilizer is applied to an existing RNA purification kit, which utilizes a carrier such as silica for adsorption and filtration of nucleic acids, it irreversibly inactivates the RNase derived from samples. High quality RNA with excellent stability can be obtained.

Features

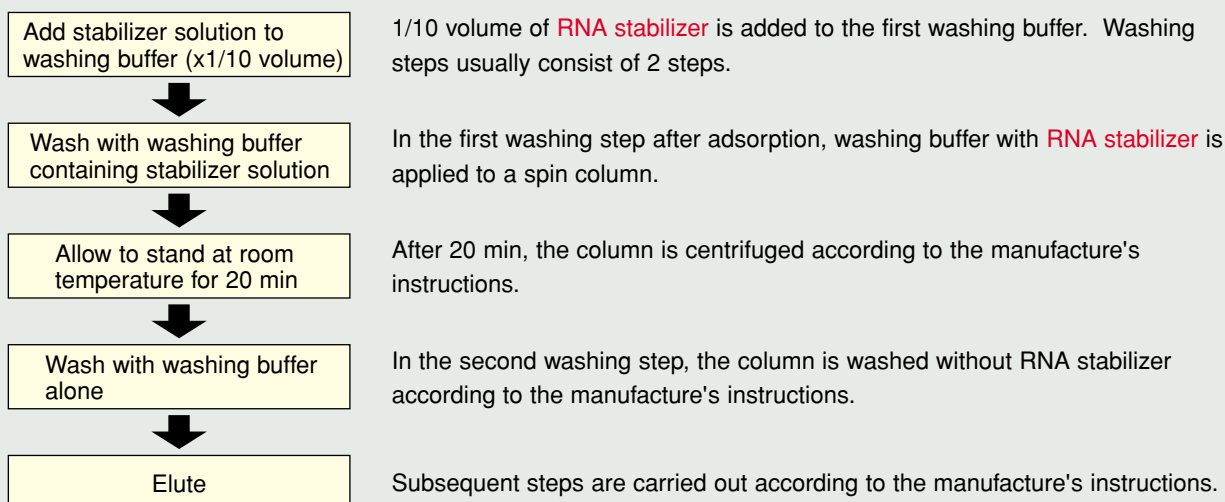
- Since RNase is inactivated irreversibly, valuable samples can be kept long term.
- Since reactivation of inactivated RNase is inhibited by reducing agents such as mercaptoethanol, the RNase inactivation is irreversible.
- RNA with high stability can be purified from the RNase rich organs such as liver, pancreas and kidney.
- High quality RNA can be obtained with no effect on recovery by application to an existing RNA purification kit, which utilizes a carrier such as silica for adsorption and filtration of nucleic acids.

**Experimental data 1 : Example of RNA extraction from mouse liver and pancreas**

Total RNA was extracted from mouse liver and pancreas using Invisorb™ Spin Tissue RNA Mini Kit (Invitex). Extracted RNA was incubated at 37°C overnight. Electrophoretograms are given below. Washing buffer: 50μL of RNA stabilizer was added to 500 μL of Wash Buffer R1 (first washing buffer) and extraction was carried out.



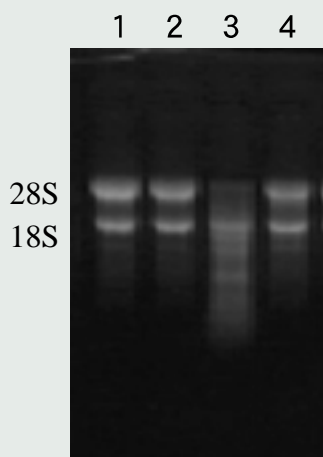
Directions for use : RNA stabilizer is applied to the washing step of a RNA purification kit, which utilizes a carrier such as silica for adsorption and filtration of nucleic acids. As for RNA adsorption to the carrier, please consult the manufacture's instructions of each purification kit.



Experimental data 2 : Example of RNA extraction from mouse liver

Total RNA was extracted from mouse liver using RNA extraction kit (Company Q). Extracted RNA was incubated at 37°C overnight. An Electrophoretogram is given below.

Washing buffer: 70μL of RNA stabilizer was added to 700 μL of Buffer RW1 (first washing buffer) and extraction was carried out.



- lane1 : without RNA stabilizer
(allow to stand at -80°C overnight)
- lane2 : with **RNA stabilizer**
(allow to stand at -80°C overnight)
- lane3 : without RNA stabilizer
(incubate at 37°C overnight)
- lane4 : with **RNA stabilizer**
(incubate at 37°C overnight)

Description	Wako Catalog No.	Package size
RNAstabilizer , Irreversible RNase Inactivation Reagent 1 bottle × 3.5mL (methanol solution)	180-01891	50 reactions

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