

RNAstill™ RNA Storage Solution

Cat. No.:	YRR001	YRR010
Product Name:	RNAstill™ RNA Storage Solution	
Concentration:	20X	
Size:	1 ml	10 ml
Format:	Reagent	

Introduction

RNAstill™ RNA Storage Solution is supplied in a 20-fold concentrated, ready-to-use reagent which is ideal for decontamination of RNases and storage of purified RNA. RNAstill™ RNA Storage Solution provides greater RNA stability than standard 0.1mM EDTA , TE Buffer or other commercial reagent. Some commercial reagent will inhibit Reverse Transcription when the RT temperature is more than 45°C. However, RNAstill™ RNA Storage Solution will not inhibit reverse transcription even when the RT temperature is up to 65°C. Furthermore, RNases-inactivation process can be repeated anytime to protect against newly introduced contaminants. Multiple reheating steps will not affect the efficiency of RNAstill™ RNA Storage Solution.

RNAstill™ RNA Storage Solution is non-toxic. It's a perfect replacement for DEPC, a known carcinogen. It's also a perfect replacement for buffer incompatible with DEPC, or solution cannot be autoclaved. RNA stored in RNAstill™ RNA Storage Solution can be used in many enzymatic reactions, including cDNA synthesis, RT-PCR and in vitro transcription...etc. By using RNAstill™ RNA Storage Solution, decontamination of RNases and storage of purified RNA can be safe, fast and simple.

Features

1. RNases-inactivation can be completed by heating the solution at 65°C for 20 minutes.
2. RNases-inactivation can be repeated to protect against newly introduced contaminants.
3. Multiple reheating steps will not affect the efficiency.
4. Perfect replacement for DEPC, buffer incompatible with DEPC or solution can't be autoclaved.
5. RNA can be stored in RNAstill™ RNA Storage Solution at -20°C.

Contents

ITEM	YRR001	YRR010
(20X) RNAstill™ RNA Storage Solution	1 ml	10 ml

Storage Conditions

RNAstill™ RNA Storage Solution shall be stored at -20°C.

Applications

Ideal for completely eliminating RNases contamination during RNA storage. If contamination of the sample is suspected at a later date (after using the sample or before refreezing the sample), re-heating will inactivate any new contaminants.

Quality Control

RNAstill™ RNA Storage Solution is functionally tested for the elimination of RNase. No detectable RNase activity is observed.

Caution

RNAstill™ RNA Storage Solution contains irritants. During operation, always wear a lab coat, disposable gloves, and protective goggles.

General Procedures for Treatment of RNA

Protocol: For Dried RNA Pallet

1. Dilute RNAstill™ RNA Storage Solution to 1X concentration with distilled water.
2. Incubate the solution at 65°C for 20 minutes to remove the RNase contamination of water and bottle.
3. Store the remaining 1X solution at -20°C for later use.
4. Add 1X solution to the dried RNA pellet in a tube and incubate the tube at 65°C for 20 minutes, and then pipetting or flicking the tube until the pellet is completely dissolved.
5. Store the RNA sample at -20°C.

Protocol: For RNA in Solution

1. Add RNAstill™ RNA Storage Solution to final 1X concentration of RNA sample.
2. Incubate the mixture at 65°C for 20 minutes, and then store the RNA sample at -20°C.

Protocol:

If RNA Sample is Suspected to RNase Contamination after Each Use

1. After initial treatment, if RNA sample is suspected to RNase contamination after each use, reheat the sample at 65°C for 20 minutes.
2. Multiple reheat steps will not affect the efficiency of RNAsstill™ RNA Storage Solution.

Protocol: For Preparation of RNase-free Buffer:

1. Dilute the RNAsstill™ RNA Storage Solution to 1X concentration in the buffer or solution and mix well.
2. Incubate the solution at 65°C water-bath for 20 minutes.

Protocol:

If RNase-free Buffer is Suspected to RNase Contamination after Each Use

1. After initial treatment, if RNase-free buffer is suspected to RNase contamination after each use, reheat the sample at 65°C for 20 minutes.
2. Multiple reheat steps will not affect the efficiency of RNAsstill™ RNA Storage Solution.