Solid phase RNase eliminator

Surface RNase Erasol

Item number: SR0040

Specification: 100mL/250mL

Storage: Store at room temperature, valid for two years.

Product Description:

Surface RNase Erasol is a special RNase inactivator exclusively developed by Solebol. It contains a variety of ingredients can efficiently inactivate the RNase pollution on the solid surface, and ensure the cleanliness of the RNA working environment.

1. High efficiency. This product stock solution can completely inactivate up to 100 ug of RNase on solid surfaces within 5 minutes, which is much more effective and faster than commonly used DEPC.

2. It can inactivate RNases and DNases such as RNase T1, RNase H, BAL31, S1, Mung bean nuclease.

3. Non-toxic. Unlike DEPC, which is highly carcinogenic, this product is not toxic to humans in any way.

4. Easy to use. There is no need to autoclave after treatment.

How to use:

1 Water treatment

Directly add the solid phase RNase scavenger stock solution to the water that needs to be treated at the ratio of 1:1000, mix evenly and place at room temperature for 24 hours to be used directly, and the obtained water can be prepared electrophoretic solution and cracking solution. However, if it is necessary to dissolve RNA, it is recommended to use liquid phase RNase scavenger.

2. The cleaning of the working platform directly spray the solid phase RNase scrubber or 10 times the fresh diluent on the countertop, wipe it off with ordinary absorbent paper after 5 minutes, and finally wipe it off with absorbent paper stained with 1000 times the fresh diluent of solid phase RNase scrubber and let dry.

Note: Due to the general RNase pollution of the working platform are very serious, Solebao recommends the use of solid phase RNase scavenger stock or ten times the fresh dilution (fresh dilution should not be stored for more than one day), do not use dilution greater than ten times.

3. Clean the experimental instrument with paper soaked in solid phase RNase scavenger or 10 times the fresh diluent to wipe the surface of the instrument, and then wipe with absorbent paper, and finally wipe with absorbent paper stained with solid phase RNase scavenger 1000 times the fresh diluent, dry.

The time of treating metal instruments with solid phase RNase scavenger stock solution should not exceed 5 minutes.

Note: Since the general laboratory instrument RNase contamination is very serious, Solebaol recommends the use of solid phase RNase scavenger stock or ten times the fresh dilution (fresh dilution should not be stored for more than one day), do not use dilution greater than ten times.

4. Cleaning of glass and plastic utensils

Soak the utensils in 10 or 100 times the fresh diluent of solid phase RNase scavenger, stand for 5 minutes after removal, and then soak in 1000 times or 10000 times the fresh diluent of solid phase RNase scavenger for more than two times, and dry upside down for reserve use.

Please note: Since glass and plastic vessels are generally more contaminated with RNase after cleaning (but generally cleaner than work platforms and laboratory instruments), Solebau recommends using 10 or 100 times the solid phase RNase remover for the first soak (do not store fresh diluents for more than one day). Do not use diluents with a dilution greater than 1000 times.

5. Cleaning of pipette gun Remove the front end of pipette gun according to the manufacturer's use hand, leave the interface plug and trap, soak it in the fresh dilution of 10 or 100 times of solid phase RNase cleaner for one minute, and then rinse thoroughly with the fresh dilution of 1000 or 10000 times of solid phase RNase cleaner, and let dry.

Put back into the pipette gun.

6 Clean the plastic centrifuge tube and dripper

The reaction plastic centrifuge tube and dropper are fully soaked in the fresh diluent of 1000 times the solid phase RNase scavenger for more than 5 minutes (it is best not to have bubbles), and then fully soaked twice with the fresh diluent of 1000 times or 10000 times the solid phase RNase scavenger. The test tube or centrifuge tube can be used immediately or dried for reserve.

Technical data:

How to test the effect of inactivating RNase of this product

Add RNase solution to two 1.5mL plastic centrifugal tubes respectively, so that the total amount of RNase is between 10-100ug, dry naturally (take about a day) or heat to evaporate the water, add 1 mL of the product stock solution to one sample, add 1 mL of water without RNase to another sample (control),

Stand at room temperature for five minutes (be careful not to make bubbles on the tube wall, because it will block the combination of the solution and RNase molecules on the tube wall), then carefully suck out the solution and add 1 mL of water, sit for 1 minute and carefully suck out, repeat the washing step once, and finally add 2.5ug total RNA sample. After holding for 30 minutes, the sample solution was added for RNA electrophoresis to observe the integrity of RNA molecules. 37°CIf the original RNA was intact and did not degrade, it indicated that RNase in the tube had been inactivated.

The relationship between the dilution of Solid phase RNase scavenger and the inactivation effect of RNase The amount of RNase (1.5mL centrifuge tube)

Dilution	0.5 ug	5 ug	50 ug	100 ug
Stock solution	+	+	+	+
10x dilution	+	+	+	+
100x dilution	+	+	+	+

1,000x dilution	+	-	-	-

Table Note: All inactivation conditions are set at room temperature for 5 minutes, "+" means 100% inactivated, "-" means partially inactivated or not inactivated.

RNase is prepared by adding liquid solution to 1.5mL plastic centrifuge tube for drying, diluent is fresh dilution.

Related products:

R1050	*5×RNA Loading Buffer*
R1100	*Triquick Resgent Total RNA extraction reagent*
R1200	*Total RNA extraction kit*
R1600	*DEPC treats water*
SY1040	*SYBR Green Ⅰ(10000×)*
SR0040	*Solid phase RNase remover*
SR0060	*Liquid phase RNase scavenger*
SR0080	*RNAsaver RNA long-acting preservation solution*