

Surface RNase Remover (with Spray Bottle)

Product description

RNase Remover, a novel RNase inactivation reagent, contains unique components that effectively eliminate RNase from the surfaces of laboratory equipment, thereby creating a clean RNA working environment. This product mainly has the following features: 1) Efficacy similar to RNase Away™, primarily used to remove RNase contamination from solid surfaces such as workbenches, laboratory instruments, glass surfaces, and plastic surfaces. 2) Ready-to-use solution, simply spray on the solid surface and wipe clean with a dry paper towel, making it easy to use. 3) Non-toxic, non-carcinogenic, and non-abrasive. Unlike the highly carcinogenic DEPC, it poses no harm to humans. No autoclaving is required after treatment. 4) The efficacy is high; under normal conditions, the stock solution can inactivate up to 100 µg of various RNases on solid surfaces within a few minutes, including: RNase T1, RNase H, BAL31, S1, Mung bean nuclease, etc. Therefore, this product can perfectly replace DEPC for removing RNase contamination from solid surfaces.

Specifications

Cat.No.	10609ES60
Size	100 mL

Storage

This product should be stored at 2~8°C for 1 year.

Instructions

1. Cleaning the Work Surface

1) Depending on the level of contamination in the laboratory, use the **Surface RNase remover** stock solution or a fresh 10-fold dilution to remove RNase from the work surface.

[Note]: Please use the 10-fold diluted solution within 1 day. Do not dilute to a greater extent, as this will affect the removal efficacy.

2) Pour the stock solution or the 10-fold diluted solution directly into the accompanying spray bottle, evenly spray it on the work surface, and after 5-10 minutes, wipe off the **surface RNase remover** with ordinary absorbent paper, then rinse with sterilized water and dry with new absorbent paper.

2. Cleaning of Laboratory Equipment

1) Depending on the level of contamination in the laboratory, use the **Surface RNase remover** stock solution or a fresh 10-fold dilution to remove RNase from laboratory equipment.

2) Carefully pour the stock solution or the 10-fold diluted solution onto a paper towel, and use a thoroughly moistened lens cleaning paper to wipe the surface of the instrument (for small laboratory equipment parts, they can also be briefly soaked in the solution, controlling the time to within 5-10 minutes). After 5-10 minutes, wipe off the **surface RNase remover** with a clean paper towel, then rinse with sterilized water, and dry with new absorbent paper or allow to air dry.

[Note]: For the treatment of metal instruments, if using the stock solution for removal, be sure to control the time to within 5 min.

3. Plastic and Glass Containers

1) Depending on the level of contamination in the laboratory, use a fresh dilution of the **Surface RNase remover** at 10x or 100x to remove RNase from plastic and glass containers.

[Note]: Please use the 10x or 100x diluted solution within 1 day, and do not dilute to a greater extent, as this will affect the removal effectiveness.

2) Add an adequate amount of RNase removal dilution to the container, ensuring that all surfaces of the containers to be treated are fully in contact with the RNase removal dilution (if using centrifuge tubes, vortex for 1-2 min). Remove after 5-10 min. Soak in fresh RNase removal solution diluted 1000 times or 10000 times for more than two times, then invert and air dry for later use.

4. Treatment of Pipette Tips and Water

[Note]: This product is not as effective as DEPC for the treatment of pipette tips and water. If precise and rigorous RNA research is required, please use DEPC for RNase removal treatment; If you need to directly dissolve RNA purification products, please use DEPC-treated water and pipette tips for the operation. For other RNA-related experiments, such as RNA electrophoresis, this product can be used for treatment.

1) **For water:** Directly add the **Surface RNase remover** stock solution at a ratio of 1:1000 to the water that needs to be treated, mix well, and let it sit at room temperature for 24 hours before use. The resulting water can be used to prepare electrophoresis solutions and other purposes.

[Note]: The diluted fresh cleaning solution needs to be used within one day.

2) **For Pipette Tips:** Directly dilute the **Surface RNase remover** stock solution at a ratio of 1:1000, and fully immerse the pipette tips (ensure no bubbles) for 5-10 minutes. Then soak with the freshly diluted RNA cleaning solution at 1000x or 10000x dilution for more than two times, let dry for later use, or it can be used directly.

Notes

1) This product has certain corrosive properties; please wear a lab coat, gloves, and a mask during operation to avoid direct contact with eyes, skin, etc. Additionally, avoid using it on certain easily corroded metal surfaces;

2) Avoid prolonged exposure of reagents to air to prevent oxidation or volatilization that may affect their pH value and, consequently, their effectiveness. Please tighten the cap of the cleaner in the reagent bottle, and close the nozzle of the spray bottle after use.

3) This product may become cloudy or precipitate in low-temperature environments; it can be restored to clarity by heating in a 37°C water bath for a few minutes. Avoid vigorous shaking to prevent excessive foaming.

4) For your safety and health, please wear a lab coat and disposable gloves while handling.

5) This product is for research purposes only!