NEUROMICS

RNase Inactivating Solution

Catalog #: RNA001

Product Size: 25 ml

Storage: -20°C for 12 months

Shipping: Ambient/Room Temperature

GENERAL INFORMATION

Our highly advanced RNase Inactivation reagent is expertly crafted to irreversibly eliminate RNase activity. This reagent guarantees that every piece of laboratory equipment and consumable is entirely free from RNase contamination following the inactivation procedure. It is an indispensable asset for a variety of RNA-related applications including RNA isolation, real-time PCR, Northern blotting, or fluorescence in situ hybridization (FISH). You can proceed with your experiments confidently, assured of accurate and reliable results.

Product is for Research use only.

STORAGE AND USE

Our robust RNase Inactivation reagent is conveniently shipped at room temperature to ensure optimal condition upon arrival. For maximum effectiveness, we recommend storing it at -20℃. With a generous shelf life of 12 months, you can rely on our RNase Inactivation reagent as a steadfast component in your molecular biology toolkit.

ASSAY PROTOCOL/PROCEDURES FOR RNASE INACTIVATION

To ensure the effective inactivation of ribonuclease (RNase) and prevent potential contamination in your experimental setup, please follow the detailed steps below:

1. Preparation:
    - Gather all experimental consumables, including but not limited to pipette tips, RNA extraction tubes (e.g., EP tubes), and any other tools that will come into contact with RNA samples.
2. RNase Inactivation Treatment:
    - Fully immerse the collected consumables in the RNase Inactivation Reagent. Ensure that all surfaces of the items are adequately coated with the reagent to maximize effectiveness.
3. Incubation Process:
    - Place the immersed items in a suitable incubator set to a stable temperature of 60°C. It is essential to maintain this temperature throughout the incubation period.
    - Allow the items to incubate for a minimum of 10 minutes. This duration is crucial for ensuring complete inactivation of RNase and to guarantee the integrity of subsequent RNA analyses.

ADDITIONAL NOTES

1. The RNase Inactivation product is designed to be safe and non-corrosive, making it compatible with downstream procedures involving sensitive RNA analysis.
2. For efficiency, you can treat the same items multiple times within the same day if further inactivation is deemed necessary, ensuring a continuous safeguard against RNase contamination.

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3. Consistently verify that the incubation period is strictly adhered to, as any shorter duration may leave residual RNase activity, which could compromise the accuracy of your results.
4. Exercise caution when handling chemicals by minimizing direct contact. Always wear appropriate personal protective equipment (PPE), including safety glasses, disposable gloves, and protective clothing, to ensure your safety and maintain a contamination-free environment during laboratory work.

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