nacalai tesque
The quality for certainty.

TOPICS

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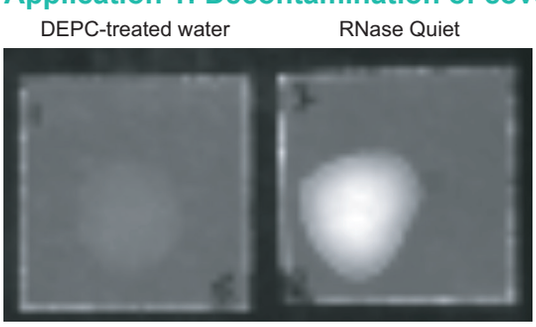
For nuclease and nucleic acid decontamination spray

RNase Quiet

RNase Quiet is a ready-to-use solution for eliminating DNase and RNase as well as DNA and RNA by wiping glass, plastic lab ware, bench surfaces, and other surfaces.

- **Free from contamination; removes nucleases and nucleic acids**
- **Easy to wipe; no detergent contained**
- **Easy to use; spray type**
- **Non-carcinogenic; no DEPC contained**

Application 1: Decontamination of cover glass

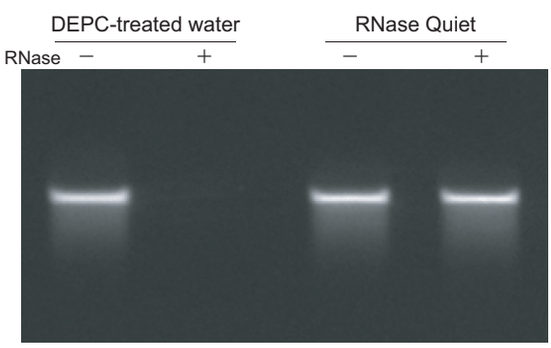


Condition

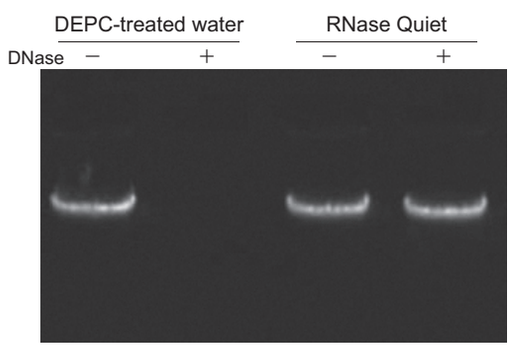
1. Apply 100 µl RNase A solution (1 mg/ml) to cover glasses and dry them.
2. Spray with DEPC-treated water or RNase Quiet and wait for 1 minute. Wipe thoroughly with a clean paper towel, then rinse with RNase-free sterile water.
3. Apply 50 µl RNA solution (40 µg/ml) on the cover glasses and incubate them at 37°C for 30 minutes.
4. Apply 1 µl ethidium bromide solution (20 µg/ml) to the cover glasses with a pipette.
5. Observe with UV.

Application 2: RNase and DNase decontamination of 1.5 ml micro-tubes

【RNase decontamination test】



【DNase decontamination test】

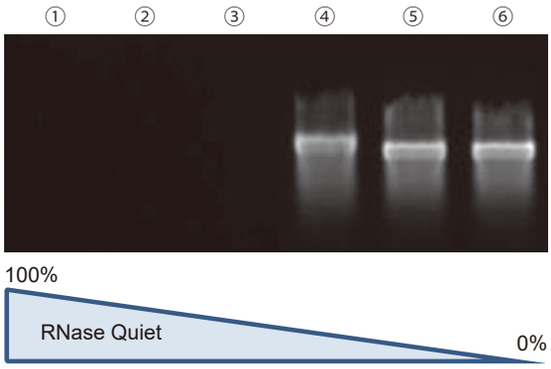


Condition

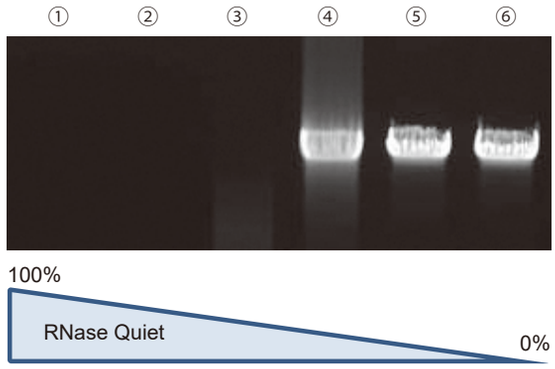
1. RNase decontamination test
   (+): Add 10 µl of RNase A solution (10 mg/ml) to a 1.5 ml micro-tube. (−): Add 10 µl of lysate buffer to a 1.5 ml micro-tube.
   DNase decontamination test
   (+): Add 10 µl of DNase I (27.3 U/10 µl) to a 1.5 ml micro-tube, and dry it up. (−): Add 10 µl of lysate buffer to a 1.5 ml micro-tube, and dry it up.
2. Add 1 ml of DEPC-treated water or RNase Quiet and wait for 1 minute.
3. Remove the solution from the tubes and rinse those with 1 ml of DEPC-treated water.
4. Remove the DEPC-treated water from the tubes and add 25 µl of RNA solution (40 µg/ml) for RNase decontamination test; 25 µl of DNA solution (40 µg/ml) and 1 µl of 50 mmol/L magnesium chloride for DNase decontamination test, and incubate them at 37°C for 30 minutes.
5. Analyze them using electrophoresis with 1% agarose gel including ethidium bromide.

Application 3: Decontamination efficiency

【RNA decontamination test】



【DNA decontamination test】



① RNase Quiet 100%
② RNase Quiet 80%
③ RNase Quiet 60%
④ RNase Quiet 40%
⑤ RNase Quiet 20%
⑥ DEPC treated water

1.Add 2.5 µl of RNA solution (0.4 mg/ml) or 2.5 µl of DNA solution (0.4 mg/ml) to 1.5 ml micro tubes.
2.Add each concentration of RNase Quiet solution as mentioned above and 20 µl of DEPC treated water into a tube, and then incubate them for 5 minutes.
3.Analyze them with agarose gel electrophresis with ethidium bromide.

Usage

Cleaning bench surface	Apply directly to the surface to be cleaned. Wipe thoroughly with a paper towel. Rinse with RNase-free water and then dry with a clean paper towel.
Cleaning lab apparatus	Apply RNase Quiet liberally to a paper towel and wipe all exposed surfaces of the apparatus thoroughly. Rinse with RNase-free water and then wipe to dry. Some small parts may be cleaned by briefly soaking them in RNase Quiet for 2 minutes, rinse them in RNase-free water and then dry.
Cleaning plastic and glass lab ware	Add enough RNase Quiet so that the entire surface of the lab ware can be soaked with the solution upon swirling or vortex. After discarding the solution, rinse lab ware thoroughly two times with RNase-free water.
Cleaning pipettes	Remove shaft from a pipette following the manufacturer's instruction. Soak the shaft for one minute in RNase Quiet. Rinse the shaft thoroughly with RNase-free water and then reassemble the pipette. Apply RNase Quiet liberally to a paper towel and wipe all exposed surfaces of the other components thoroughly. Rinse with RNase-free water and then wipe to dry. Do not clean piston compartment.

*Use RNase Quiet by itself. Do not use on metals, such as aluminum, or mix with acidic solutions, because harmful gas will form. Handle this alkaline solution carefully.

Ordering information

Product Name	Storage	Catalogue number	PKG size
RNase Quiet	Room temperature	09147-14	475 mL
RNase Quiet for Replacement	Room temperature	09477-94	475 mL

For research use only, not intended for diagnostic or drug use.

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NACALAI TESQUE, INC.
Nijo Karasuma, Nakagyo-ku,
Kyoto 604-0855 JAPAN
TEL : +81-(0)75-251-1730
FAX : +81-(0)75-251-1763
Website : www.nacalai.com
E-mail : info.intl@nacalai.com