ambion
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# RNA*secure*™ Reagent

**Catalog Number** AM7005, AM7006

**Pub. No.** 4386507 **Rev.** B

| Cat. no. | Concentration | Volume | Storage conditions |
|---|---|---|---|
| AM7005 | 25X | 1 mL | Store at –20°C. |
| AM7006 | 25X | 10 mL | |

**WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **www.lifetechnologies.com/support**.

## Product description

RNA*secure*™ Reagent is designed to use instead of DEPC in molecular biology reagents, in solutions that are incompatible with DEPC (such as Tris or MOPS buffers), in solutions that cannot be autoclaved, and in enzymatic reactions prior to adding the enzyme. No inhibition of the following enzymatic reactions was seen when treated with RNA*secure*™ Reagent prior to enzyme addition: T7, T3, and SP6 RNA Polymerase, in vitro transcription (37°C); MMLV and AMV, reverse transcription (42°C); and SuperTaq™ Polymerase, PCR (94°C).

## Treat solutions with RNA*secure*™ Reagent

1. Dilute RNA*secure*™ Reagent to 1X final concentration in the buffer or solution to be treated, and mix well.
2. Incubate the mixture at 60°C for 10 minutes, then cool to room temperature.
   The buffer/solution is then ready to use for RNA isolation and analysis. Alternatively, the treated solution can be stored at room temperature, 4°C or –20°C until use.
3. To eliminate any RNase contamination that may occur after initial treatment, reheat the treated solution to 60°C for 10–20 minutes.

**Note**: RNA*secure*™ Reagent is active above 45°C, and may inactivate some enzymes in reactions incubated above this temperature. Therefore it may be critical to treat reaction buffers with RNA*secure*™ Reagent prior to addition of some enzymes and then to perform the enzymatic incubations below 45°C. This does not apply to SuperTaq™ Polymerase.

## Quality control

**Nonspecific endonuclease activity:** A sample is incubated with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

**Exonuclease activity:** A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.

**Functional testing:** RNA*secure*™ Reagent is tested functionally for its ability to inactivate RNase in solution.

## Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

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