

Terminator DNA Decontamination Solution

Catalog # D1181

Product Description

Terminator DNA Decontamination Solution is a pair of solutions that contain ingredients capable of degrading high levels of contaminating DNA and RNA from all types of surfaces. The product is especially valuable for preventing contamination in PCR applications. The two solutions are by themselves innocuous. Upon mixing, they form a potent, short-lived nucleic acid degrading intermediate. When 50 ng of template DNA is dried down in a PCR tube, it is rendered unamplifiable upon treatment with Terminator DNA Decontamination Solution. Additional experiments demonstrate that the DNA is degraded down to free nucleotides.

Contents and Storage

<u>Amount</u>	<u>Component</u>
250 ml	Solution 1
250 ml	Solution 2

Terminator DNA Decontamination Solution can be stored at room temperature for several months. However, for optimal activity over longer periods of time, store both solutions at 4°C.

Instructions For Use

The Terminator DNA Decontamination Solutions are ready to use. The surface to be cleaned is treated with Solution 1. Solution 2 is then immediately applied over Solution 1. Thorough rinsing with distilled water removes any degraded nucleic acid and Terminator DNA Decontamination Solution residue that might be inhibitory to enzymatic reactions. (See specific instructions below.) Solutions cannot be re-used.

When using the aerosol attachment always work in the fume hood. Since the full toxic effects of the aerosol mixture are not known, do not spray the two solutions simultaneously. :

DANGER

Terminator DNA Decontamination Solution 1 causes eye, skin, and respiratory tract burns. It is harmful if swallowed, and represents a possible developmental and reproductive hazard. Use only with adequate ventilation. Avoid breathing vapor. Do not allow contact with eyes or on skin. Do not taste or swallow. Wear appropriate protective eyewear, clothing, and gloves.

DANGER

Terminator DNA Decontamination Solution 2 causes eye, skin, and respiratory tract burns. Use only with adequate ventilation. Avoid breathing vapor. Do not allow contact with eyes or on skin. Wear appropriate protective eyewear, clothing, and gloves.

Additional Instructions:

To clean work surfaces

Spray or apply Solution 1 to the surface to be cleaned, and then repeat with Solution 2. Wipe with clean paper towels, rinse twice with distilled water, and wipe dry with clean paper towels.

To clean lab equipment

Spray or apply Solution 1, and then repeat with Solution 2. Rinse with distilled water and wipe dry. Clean small parts by briefly soaking them in a freshly prepared mixture of the two solutions, rinse with distilled water, and dry.

To clean plastic and glass vessels

Spray or apply Solution 1 to coat the entire surface of the vessel. Follow with Solution 2. Agitate vessel briefly to make sure that the Terminator DNA Decontamination Solution thoroughly covers the surface, then discard the Terminator DNA Decontamination Solution. Rinse the vessel thoroughly several times with distilled water.

To clean PCR tubes

Spray or apply Solution 1, and then repeat with Solution 2. Briefly vortex, centrifuge, and discard the Terminator DNA Decontamination Solution. Add distilled water, briefly vortex, centrifuge and discard.

To clean pipettors

Spray or apply Solution 1 directly on pipettor, and then repeat with Solution 2. Rinse thoroughly with distilled water. For more thorough cleaning, remove the shaft of the pipettor as per the manufacturer. Remove seals and gaskets from the shaft. Spray or apply Solution 1, followed by Solution 2. Rinse several times with distilled water, wipe dry, and reassemble.

Concern about metal ions

Terminator DNA Decontamination Solution contains metal ions which may be of concern if a decontaminated vessel, piece of equipment, or apparatus will be used for an experiment which is sensitive to trace amounts of metals. Although thoroughly rinsing with distilled water after Terminator DNA Decontamination Solution treatment is usually sufficient to remove any trace metals, a 0.1% EDTA rinse can be added as an extra precaution. Follow it with several rinses with distilled water.