

LTK-

008™

YOUR LICENSE TO KILL

PCR* SAVE

DNA

RNA

DNASES

RNASES

BACTERIA

PHAGES AND MORE



biodelta

Introduction

biodelta's LTK-008, especially designed to remove contamination through DNA, RNA, DNase, RNase, bacteria and phages from work surfaces, expands upon conventional sterilisation in the laboratory. LTK-008 is ready to use - a laboratory assistant you should not be without.

Procedure

Spray biodelta's LTK-008 onto the contaminated surface or laboratory equipment, wait 5-10 minutes for it to react, wipe over the area thoroughly with a damp paper towel and then dry it. Small pieces of equipment may be decontaminated by soaking them in LTK-008. In order to avoid reactions with metallic substances, the soaking period should not exceed 1 hour. Soaked equipment should then be rinsed off thoroughly. The lower end of a pipetter shaft can usually be decontaminated sufficiently by pipetting LTK-008 up and down the shaft (without the tip) several times and then rinsing with water.

LTK-008 kills DNA contaminations

biodelta's LTK-008 completely decomposes DNA contaminations within 5 minutes (Fig. 1). After cleaning with LTK-008, laboratory equipment and surfaces contaminated with plasmid DNA reveal no signs of DNA residue, not even with a PCR* (Fig. 2). LTK-008 is suitable for decontaminating sample blocks, racks, disposables, vessels, work surfaces, etc.

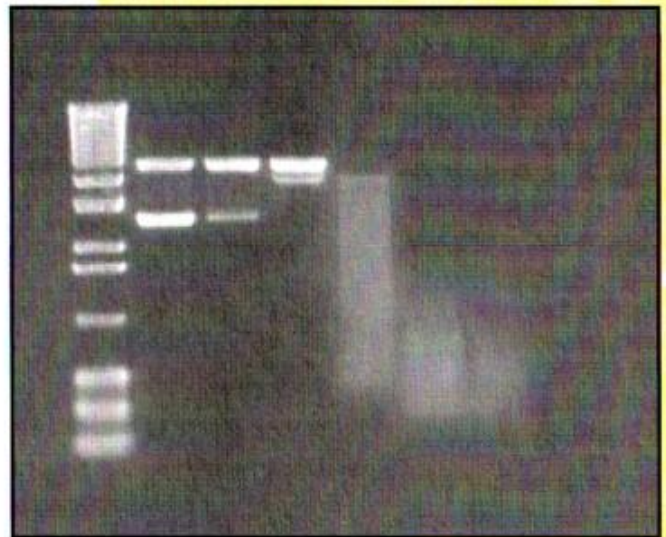


Fig. 1: 300 ng plasmid DNA were incubated with LTK-008 and deposited on a gel. Length standard (lane 1), 300 ng plasmid DNA (lane 2), 300 ng plasmid DNA incubated with LTK-008 for 1 minute (lane 3), 2 minutes (lane 4), 3 minutes (lane 5), 4 minutes (lane 6), 5 minutes (lane 7) and 10 minutes (lane 8).



Fig. 2: Laboratory equipment contaminated with plasmid DNA was cleaned with LTK-008. Potential DNA residue was amplified in a polymerase chain reaction* (800 basepair plasmid-specific band) and deposited on a gel. Length standard (lane 1), 800 bp amplified product (lane 2). Lanes 3-18: tests of the various surfaces before and after cleaning with LTK-008. Stainless steel (lanes 3+4), aluminium (lanes 5+6), polypropylene (lanes 7+8), polystyrene (lanes 9+10), polyethylene (lanes 11+12), glass (lanes 13+14), pipetter (lanes 15-16), work surface (lanes 17+18).

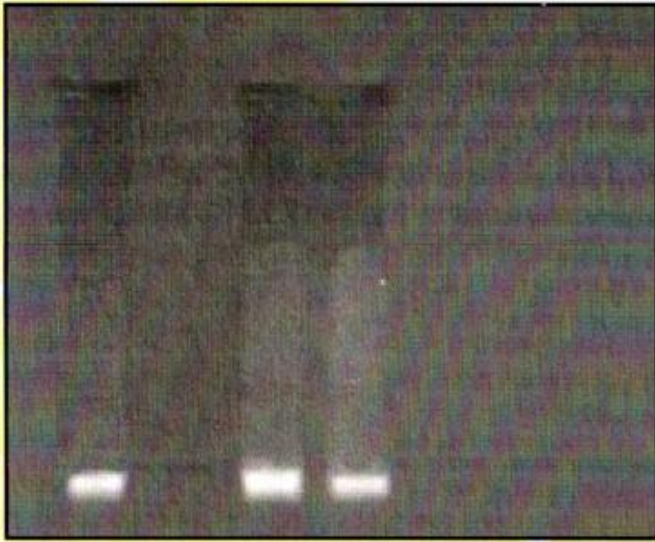


Fig. 3: A microcentrifuge tube pre-contaminated with RNase A (1 mg/ml) was incubated with LTK-008 for 5-10 minutes and washed with sterile distilled water. Rabbit globin mRNA was incubated in the tube at 37 °C for 30 minutes and deposited on a gel. Rabbit globin mRNA (600 and 650 bp, lane 1), mRNA following incubation in a tube pre-contaminated with RNase A and washed with sterile distilled water (lane 2), mRNA following incubation in a tube pre-contaminated with RNase A, purified with LTK-008 and washed with sterile distilled water (lanes 3+4).



Fig. 4: A surface contaminated with DNase (500 u/μl) was cleaned with LTK-008. Plasmid DNA (300 ng) was incubated on the surface at 37 °C for 30 minutes and deposited on a gel. Plasmid DNA (lane 1), DNA following incubation on a surface contaminated with DNase (lane 2), DNA following incubation on a surface cleaned with LTK-008 (lanes 3+4).

LTK-008 inactivates RNase and DNase

Following treatment of RNase and DNase with biodelta's LTK-008, no signs of nuclease activity against RNA (bacteria total RNA and rabbit globin mRNA (Fig. 3) tested) or DNA (Fig. 4) are detectable.

LTK-008 kills bacteria and phages

biodelta's LTK-008 prevents colony growth of bacteria (*E. coli* tested). Phages (M13 tested) lose their infectivity as a result of treatment with LTK-008.

LTK-008 check

biodelta's LTK-008 check provides control of the decontamination procedure as well as of the stability of the LTK-008 solution. When using LTK-008 (description see „Procedure“), as a control just pipette 10 μl of the solution onto the check and wait for color reaction. After 5-10 minutes wetting the check turns almost completely white in color showing the solution's activity and the endpoint of the decontamination procedure.

Caution

biodelta's LTK-008 is intended for laboratory use only, do not apply to humans. Always wear gloves and eye protection as prolonged contact with skin or eye may cause slight irritation. If it does come into contact with the eyes, rinse with water immediately and call a physician. If swallowed, do not induce vomiting. Give plenty of water and contact physician. LTK-008 is not recommended for prolonged use with metal surfaces or surfaces made of aluminium. Avoid contact with acids and reducing agents. Keep out of reach of children.

LTK-008 set

biodelta's LTK-008 solution is ready to use. The set includes a spray bottle, 500 ml LTK-008 in a refill bottle, the LTK-008 check and the manual. LTK-008 is sensitive to light. The refill bottle should be stored in the dark at room temperature. Stored in the dark LTK-008 is stable for at least 6 months.

Ordering Information

Item	Quantity	Order Number
LTK-008 set	500 ml LTK-008 in a refill bottle, 1 spray bottle, LTK-008 check, manual	200-000

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