dsDNase

Recommended protocol for decontamination of mastermixes

Set up your PCR mastermix including Taq polymerase, primers and probe but without template DNA. Keep Mg²⁺ level above 3 mM and KCl level below 50 mM if possible.

- Add 1 Unit dsDNase pr 25 µl PCR reaction
- Incubate at 37°C for 15 mins to remove contaminating DNA
- Inactivate DNase by heating for 15 mins at 60°C
- Cool down and add template DNA
- Run your PCR
dsDNase
This document refers to the following product numbers (P/N) supplied by ArcticZymes:

70600-201, 70600-202, 70600-203

Properties

dsDNase is an endonuclease that cleaves phosphodiester bonds in DNA to yield oligonucleotides with 5'-phosphate and 3'-hydroxyl termini. dsDNase has a high specific activity, and is easily inactivated by heat. It has a particularly strong preference for double-stranded DNA. In the presence of Mg²⁺ as only divalent cation the activity towards dsDNA is minimum 5000 fold higher that specificity towards ssDNA. This enzyme can therefore be used to specifically degrade dsDNA leaving ssDNA essentially intact.

Heat Inactivation

This enzyme is completely and irreversibly inactivated by incubation for 15 mins at 65°C. Requires 1 mM DTT for inactivation.

Source

Produced in Pichia pastoris strain expressing a gene for recombinant DNase from arctic shrimp (Pandalus borealis).

Concentration

- P/N 70600-201 2U/µl
- P/N 70600-202 2U/µl
- P/N 70600-203 5U/µl

Expiry

See label.

Storage

Store at -20°C

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MSDS

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