ZYMO RESEARCH
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DNase I Set

Recombinant, lyophilized
RNase-free & protease-free

Description:

DNase I is an endonuclease that nonspecifically cleaves single- and double-stranded DNA. It requires divalent metal cations to be active.

Key Features:

- Superior activity.
- Certified RNase-free and protease-free.
- Withstand more than 10 freeze-thaw cycles.

Storage:

After reconstitution, place on ice until ready to use or store frozen aliquots (-20°C).

General Applications:

- Remove DNA from protein andRNA samples.
- Preparation of DNA-free RNA.
- DNA labeling by nick-translation.
- Removal of DNA template after in vitro transcription.
- Removal of DNA from RNA samples prior to downstream applications (NextGen sequencing, RT-PCR).

Components:

Cat.#	Size	Buffer Volume
E1010	250 U	4 ml
E1011	1500 U	4 ml
E1012	1500 U x 5	16 ml

Unit Definition:

One Kunitz causes an increase in absorbance at 260 nm of 0.001 per minute per ml, at 25°C, pH 7.5, when acting on salmon sperm DNA according to the assay method of Kunitz.

Reconstitution:

Briefly centrifuge the tube to ensure that the lyophilized DNase I settles at the bottom.

Add DNase/RNase-free water to the lyophilized DNase I, mix by gentle inversion. Avoid phosphate buffer and calcium chelators.

DNase I Reaction Set Up:

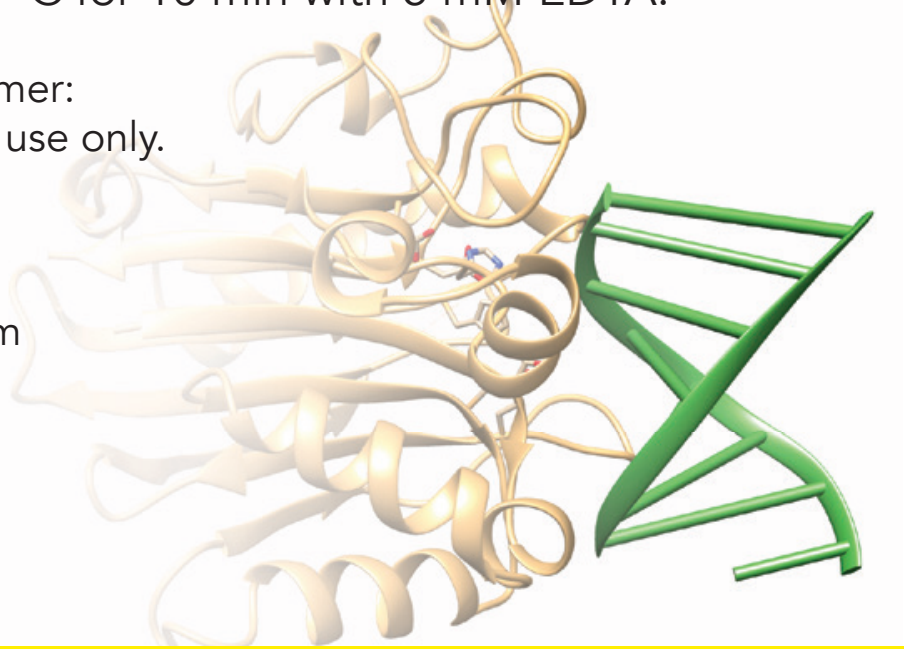
Add DNA digestion buffer (DDB) and DNase I to the sample and incubate at room temperature for 15 min. Make sure the final concentration of DDB is 1x for in-solution reaction. The provided DDB is 10x.

One Unit of DNase I will completely digest 15 µg of genomic DNA in less than 10 minutes at 25°C.

Inactivation:

Heat inactivate at 75 °C for 10 min with 5 mM EDTA.

Precautions and Disclaimer:
This product is for R&D use only.



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