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DNase I Set

Catalog No:	E1010
Content:	DNase I, 250 U (lyophilized) DNA Digestion Buffer, 4 ml
Description:	DNase I cuts both double-stranded and single-stranded DNA, producing 3'-OH oligonucleotides. It is typically used for selectively degrading DNA in the presence of RNA. DNase I is suited for applications such as nick translation, production of random fragments, cleavage of genomic DNA for footprinting, removal of DNA template after in vitro transcription and removal of DNA from RNA samples prior to downstream applications (NextGen sequencing, RT-PCR). It is compatible with all of our RNA kits featuring in-column DNase digestion.
Specification:	Deoxyribonuclease I (recombinant)

**Unit
Definition:**

One unit increases the absorbance of a high molecular weight DNA solution at a rate of 0.001 A₂₆₀ units/min/ml of reaction mixture at 25°C.

**Shipping &
Storage:**

Store at room temperature (20-30°C). After reconstitution, place on ice until ready to use or store frozen aliquots (-20°C). Avoid repeated freeze/thawing.

Instructions:

Add 275 µl DNase/RNase-Free Water to reconstitute the lyophilized DNase I at 1 U/µl. Mix by gentle inversion.

Reaction setup for DNA-free RNA:

sample (volume adjusted with water or TE buffer)	40 µl
DNase I	5 µl
DNA Digestion Buffer	5 µl

Mix by gentle inversion and incubate at room temperature for 15 minutes.

Proceed with the RNA clean-up (e.g., RNA Clean & Concentrator™-5; #R1015).



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