Creative Enzymes
Diagnostic Enzymes

DNase I (Glycerol-free)

Product Information

Cat#	DIA-469
Description	A deoxyribonuclease that randomly cleaves ssDNA and dsDNA, producing 5′-phosphate oligonucleotides. Activity depends on Ca^{2+} and is activated by Mg^{2+} or Mn^{2+}. Glycerol-free, suitable for lyophilization.
Unit Definition	One unit (U) is defined as the amount of enzyme required to completely degrade 1 µg of pBR322 plasmid DNA in 10 minutes at 37 °C.
Storage	–20 °C
Synonyms	Deoxyribonuclease I
Contaminants	Free of RNase contamination
Applications	Preparation of DNA-free RNA samples; removal of genomic DNA contamination prior to RT-PCR; elimination of DNA templates after in vitro transcription with T7, T3, or SP6 RNA polymerases; footprinting assays for DNA–protein interaction analysis; nick translation when combined with DNA polymerase I; DNA fragmentation to generate random libraries in the presence of Mn^{2+}; positive control for DNA fragmentation in apoptosis TUNEL assays.
Product Overview	**Product Components:** 200 U: DNase I (Glycerol-free, 1 U/µL): 200 µL 10x Reaction Buffer with $MgSO_4$: 1 mL 25 mM EDTA: 1 mL 2000 U: DNase I (Glycerol-free, 1 U/µL): 2 mL 10× Reaction Buffer with $MgSO_4$: 10 mL 25 mM EDTA: 10 mL 20 KU: DNase I (Glycerol-free, 1U/µl): 20 mL 10× Reaction Buffer with $MgSO_4$: 100 ml

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	25mM EDTA: 100 mL 50 KU: DNase I (Glycerol-free, 1 U/μL): 50 mL
Package	200 U/2000 U/20 KU/50 KU

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