

# DNase I

**Cat. No.** CMC04    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**

DNase I is a glycosylated polypeptide that is commonly used to degrade unwanted single- and double-stranded DNA into 5' phosphodinucleotide and oligonucleotide fragments. The properties of DNase I can be modified by divalent ions. For example, in the presence of Mg<sup>2+</sup>, Ca<sup>2+</sup> or Zn<sup>2+</sup>, DNase I degrades DNA by making random single-strand nicks in the phosphate backbone. In the presence of divalent transition metals such as Mn<sup>2+</sup> or Co<sup>2+</sup>, DNase I creates double-strand breaks, resulting in fragments with 0-2 nucleotide overhangs. DNase I is suitable for removal of genomic DNA from cell lysates, removal of plasmid from in vitro transcribed RNA, nick translation and DNase I footprinting.

<b>Source</b>	E.coli
<b>Packaging</b>	DNase I(RNase Free)(5U/ul) 1000U, 200ul, 2xDNase Buffer, 1000ul.
<b>Concentration</b>	5U/ul
<b>Unit Definition</b>	One unit is that amount of enzyme causing an increase in absorbance at 260 nm by 0.001 per minute at 25°C.
<b>Reaction buffer</b>	[2xDNase Buffer ] 200mM Tris-HCl (pH7.5, 20mM CaCl <sub>2</sub> , 20mM MgCl <sub>2</sub> .
<b>Storage buffer</b>	[pH5.3]75mM NaCl, 10mM NaAc, 50% glycerol(v/v)
<b>Application</b>	RT-PCR; In vitro transcription; Nick translation; Shot gun sequencing; Foot printing.

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**Storage**

-20°C.

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