

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^{2+} , Ca^{2+} or Zn^{2+} , DNase I degrades DNA by making random single-strand nicks in the phosphate backbone. In the presence of divalent transition metals such as Mn^{2+} or Co^{2+} , 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.

Source

E.coli

Packaging

DNase I(RNase Free)(5U/ul) 1000U, 200ul, 2×DNase Buffer, 1000ul.

Concentration

5U/ul

Unit Definition

One unit is that amount of enzyme causing an increase in absorbance at 260 nm by 0.001 per minute at 25°C.

Reaction buffer

[2×DNase Buffer] 200mM Tris-HCl (pH7.5, 20mM $CaCl_2$, 20mM $MgCl_2$.

Storage buffer

[pH5.3]75mM NaCl, 10mM NaAc, 50% glycerol(v/v)

Application

RT-PCR; In vitro transcription; Nick translation; Shot gun sequencing; Foot printing.

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Storage

-20°C.

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