



Applied Biological Materials Inc

Tel: 1-866-757-2414
Email: info@abmGood.com
Website: www.abmGood.com

DNase I

Store at -20°C

Cat. No.	Description	Conc.	Quantity
G028	DNase I	2 U/ μ l	2000 U (1 ml)

Product Description

Deoxyribonuclease I (DNase I; EC 3.1.21.1) is a non-specific endonuclease that catalyzes the cleavage of phosphodiester bonds in single/double-stranded DNA, chromatin, and RNA-DNA hybrids. DNase I cleaves DNA to release di-and/or oligonucleotide (5'-phosphorylated and 3'-hydroxylated) end-products.

Kit Components

Part No.	Product Components	2000 U
G028-1	DNase I (2 U/ μ l)	1 ml
G028-2	10X DNase I Reaction Buffer	1 ml

Product Applications

- Removes DNA from protein preparations and RNA samples
- Mediates nick translation
- Generates random fragments for dideoxy sequencing
- Degrade template DNA following in vitro transcription
- Mediate DNase I foot-printing

Enzyme Storage Buffer

10 mM Tris-HCl (pH 7.6), 2 mM CaCl₂, and 50% (v/v) Glycerol.

Enzyme Unit Definition

One unit is defined as the amount of DNase I that catalyzes the degradation of 1 μ g of DNA in 10 minutes at 37 °C into tetranucleotides or smaller fragments.

Storage Conditions

Store all components at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

Reaction Conditions

Use 1X DNase I Reaction Buffer and incubate at 37°C.

Heat Inactivation

75°C for 10 minutes.