

Deoxyribonuclease I

Cat. No. 18047-019

Size: 20,000 units

Conc: 50–375 U/μl

Store at –20°C (not frost-free)

Description

Deoxyribonuclease I (DNase I) digests single- and double-stranded DNA to oligodeoxyribonucleotides containing a 5' phosphate.

Ribonuclease has been reduced to non-detectable levels. DNase I is suitable for removing DNA from protein preparations, nick translating DNA, and generating random fragments for dideoxy sequencing. DNase I is purified from bovine pancreas. The specific activity of DNase I is typically in the range of 10,000–25,000 units/mg.

For removing DNA from RNA preparations, use DNase I Amplification Grade (Invitrogen Cat. no. 18068-015).

Unit Definition

One unit increases the absorbance of a high molecular weight DNA solution at a rate of 0.001 A_{260} units/min/ml of reaction mixture at 25°C.

Storage Buffer

20 mM sodium acetate, pH 6.5

5 mM CaCl_2

0.1 mM PMSF

50% (v/v) glycerol

Product Qualification

The Certificate of Analysis (CofA) provides detailed quality control information for each product. The CofA is available at www.invitrogen.com/support, and is searchable by product lot number, which is printed on each box.

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