

## **Native Bovine Deoxyribonuclease I RNase-free solution**

Cat. No. NATE-0199

Lot. No. (See product label)

## Introduction

**Description** Deoxyribonuclease I (usually called DNase I), is an endonuclease coded by the

human gene DNASE1. DNase I is a nuclease that cleaves DNA preferentially at phosphodiester linkages adjacent to a pyrimidine nucleotide, yielding 5'-phosphate-terminated polynucleotides with a free hydroxyl group on position 3', on average producing tetranucleotides. It acts on single-stranded DNA, double-stranded DNA, and chromatin. In addition to its role as a waste-management endonuclease, it has

been suggested to be one of the deoxyribonucleases responsible for DNA

fragmentation during apoptosis.

**Applications** Used in molecular biology applications for removing DNA during RNA purification,

for preparing DNA for nick translation, and for DNA-protein interaction analysis by

footprinting methods.

**Synonyms** DNASE1; deoxyribonuclease I; deoxyribonuclease-1; DNase I; 9003-98-9; EC

3.1.21.1; pancreatic DNase; DNase; thymonuclease, dornase; dornava; dornavac; pancreatic deoxyribonuclease; pancreatic dornase; deoxyribonuclease (pancreatic);

pancreatic DNase; DNAase; deoxyribonucleic phosphatase; alkaline

deoxyribonuclease; alkaline DNase; endodeoxyribonuclease I; DNA depolymerase; Escherichia coli endonuclease I; deoxyribonuclease A; DNA endonuclease; DNA

nuclease

## **Product Information**

**Species** Bovine

**Source** Bovine pancreas

**Form** buffered aqueous glycerol solution.

**EC Number** EC 3.1.21.1

*CAS No.* 9003-98-9

**Molecular Weight** mol wt 29.1 kDa

**Function** actin binding; deoxyribonuclease I activity; endodeoxyribonuclease activity

Unit Definition One unit will cause a ΔA260 of 0.001 per min per mL reaction mixture using calf

thymus DNA as substrate.

## Storage and Shipping Information

*Storage* −20°C

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