

## Native Porcine Deoxyribonuclease II

Cat. No. NATE-0202

Lot. No. (See product label)

### Introduction

#### Description

Deoxyribonuclease II, also called as acid DNase, hydrolyzes deoxyribonucleotide linkages in native and denatured DNA yielding products with 3'-phosphates. In vitro, its optimum pH range is 4.5-5.0. It also acts upon p-nitrophenyl-phosphodiesterases at pH 5.6-5.9. The molecular weight is approximately 38 kDa Da.

#### Applications

DNase II from Creative Enzymes has been used to treat transformed cells during the purification of  $\beta$ -lactamase. It has also been used for the preparation of adenoma tissue in a study that investigated the effect of somatoprim on growth hormone secretion in human adenoma cell cultures (hSA). Deoxyribonuclease II from porcine spleen has been used in an immunohistological study of the immune system cells in paraffin-embedded tissues. Deoxyribonuclease II from porcine spleen has also been used in a study to investigate its reassociation with the lysosomal membrane.

#### Synonyms

DNASE2; deoxyribonuclease II; EC 3.1.22.1; 9025-64-3; DNase II; pancreatic DNase II; deoxyribonuclease 3'-nucleotidohydrolase; DNase II; pancreatic DNase II; acid deoxyribonuclease; acid Dnase

### Product Information

#### Species

Porcine

#### Source

Porcine spleen

#### Form

lyophilized powder. Contains sodium chloride

#### EC Number

EC 3.1.22.1

#### CAS No.

9025-64-3

#### Activity

2,000-6,000 Kunitz units/mg protein (biuret)

#### Pathway

Lysosome, organism-specific biosystem; Lysosome, conserved biosystem

#### Function

deoxyribonuclease II activity

#### Unit Definition

One Kunitz unit will produce a  $\Delta A_{260}$  of 0.001 per min per mL at pH 4.6 at 25°C;  $[Mg^{2+}] = 0.83$  mM

### Storage and Shipping Information

#### Storage

-20°C