

## **Native Bovine Trypsin Acetylated**

Cat. No. NATE-0720

Lot. No. (See product label)

## Introduction

**Description** Trypsin (EC 3.4.21.4) is a serine protease from the PA clan superfamily, found in the

digestive system of many vertebrates, where it hydrolyses proteins. Trypsin is produced in the pancreas as the inactive protease trypsinogen. Trypsin cleaves peptide chains mainly at the carboxyl side of the amino acids lysine or arginine, except when either is followed by proline. It is used for numerous biotechnological

processes. The process is commonly referred to as trypsin proteolysis or

trypsinisation, and proteins that have been digested/treated with trypsin are said to  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

have been trypsinized.

Applications Trypsin has been used in a study to assess the ontogeny of the endocrine pancreas

in the fetal/newborn baboon. Trypsin digestion and hydrogen/deuterium exchange support the transition between inward-and outward-facing conformations during the catalytic cycle of the bacterial multidrug ATP-binding cassette transporter.

**Synonyms** α-trypsin; β-trypsin; cocoonase; parenzyme; parenzymol; tryptar; trypure;

pseudotrypsin; tryptase; tripcellim; sperm receptor hydrolase; Alpha-trypsin; Beta-

trypsin; EC 3.4.21.4; Trypsin; Acetyltrypsin

## **Product Information**

**Species** Bovine

**Source** Bovine pancreas

**EC Number** EC 3.4.21.4

**Activity** > 8,500 BAEE units/mg protein (biuret)

Pathway Activation of Matrix Metalloproteinases, organism-specific biosystem; Defective GIF

causes intrinsic factor deficiency, organism-specific biosystem; Defective CD320

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causes methylmalonic aciduria, organism-specific biosystem

**Function** calcium ion binding; serine-type endopeptidase activity

Unit Definition One BAEE unit will produce a ΔA253 of 0.001 per min at pH 7.6 at 25° C using

BAEE as substrate. Reaction volume = 3.2 mL (1 cm light path).

## Storage and Shipping Information

*Storage* –20°C