Creative Enzymes®

# Immobilized TPCK-Trypsin on G3m

*Cat. No.* NATE-1772

*Lot. No.* (See product label)

## Introduction

**Description**

Trypsin hydrolyzes proteins, peptides, amides and esters specifically at the carboxyl groups of the basic amino acids L-arginine or L-lysine. G3m: 25 µg trypsin per CR-column, immobilized on dextran. 260 ST-units immobilized per CR-column. This CR-column cuts at least 50 µg tubulin per application. Nr. 15 Storage buffer: 50 mM Tris/HCl at pH 8. 0 Nr. 67 Reaction buffer: 50 mM phosphate at pH 8. 0 (Sörensen) Nr. 68 Washing buffer: 50 mM phosphate at pH 8. 0, 1 M NaCl

**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

## Product Information

**Source**

Bovine pancreas

**EC Number**

EC 3. 4. 21. 4

**Protocol**

1. Dilute delivered buffers (at least 2 ml each) with doubly distilled water. For 1 application you need: 1 ml 10x reaction buffer and 9 ml doubly distilled water 2 ml 5x washing buffer and 8 ml doubly distilled water 1 ml 10x storage buffer and 9 ml doubly distilled water The substrate should be in reaction buffer 2. Equilibrate the CR-column with 10 ml reaction buffer. Load in a syringe 10 ml reaction buffer, let the reaction buffer run through the column by gravity to the upper filter. In case the buffer runs very slowly, apply pressure by a syringe. 3. Load substrate solution in reaction buffer. Small volumes (< 70 µl): spin the CR-column 5 seconds in a benchtop centrifuge (2000 rpm are sufficient). Let the substrate solution enter the matrix material. Larger volumes: Let the substrate solution run through the column. Flow-rate: up to 70 µl/minute Keep the substrate in the column for about 1 minute at room temperature. Higher turn-over is obtained when the substrate is applied to the column again or incubated for longer times. 4. Elute the product solution. Small volumes (< 70 µl): centrifuge the product out of the column. Larger volumes: Let the substrate run through the column and spin the residual solution out of the matrix Notice: Molecules < 700 Dalton have to be eluted with 7 ml reaction buffer. It does not harm the columns if they run dry. 5. Wash the column with 10 ml washing buffer. 6. Equilibrate the column with 10 ml storage buffer. Store the column at 4°C. Never freeze a CR-column!

## Storage and Shipping Information

**Storage**

4 °C