Creative Enzymes®

Immobilized TLCK-Chymotrypsin on F7m

Cat. No. NATE-1769

Lot. No. (See product label)

Introduction

Description	α-chymotrypsin hydrolyzes peptides, amides, and esters preferentially at the carboxyl groups of hydrophobic amino acids (L-tyrosine, L-phenylalanine, and L-tryptophan but also bonds of leucyl, methionyl, asparaginyl, and glutamyl residues). F7m: 1. 0 mg α-chymotrypsin per CR-column immobilized on polyvinyl. 55 units immobilized per CR-column Nr. 5 Storage buffer: 50 mM Tris/HCl, pH 7. 5 Nr. 5 Reaction buffer: 50 mM Tris/HCl, pH 7. 5; also active in 0.1% SDS Nr. 6 Washing buffer: 50 mM Tris/HCl, 1 M NaCl, pH 7. 5
Synonyms	EC 3. 4. 21. 1; α-Chymotrypsin; chymotrypsins A and B; alpha-chymar ophth; avazyme; chymar; chymotest; enzeon; quimar; quimotrase; alpha-chymar; alpha-chymotrypsin A; alpha-chymotrypsin; Chymotrypsin

Product Information

Source	Bovine pancreas
EC Number	EC 3. 4. 21. 1
Protocol	1. Dilute delivered buffers (at least 2 ml each) with sterile doubly distilled water. For 1 application you need: 0.25 ml 10x reaction buffer and 2. 25 ml doubly distilled water 0.4 ml 5x washing buffer and 1. 6 ml doubly distilled water 0.2 ml 10x storage buffer and 1. 8 ml doubly distilled water The substrate should be in reaction buffer 2. Equilibrate the CR-column with 2 ml reaction buffer. Fill 2 ml reaction buffer into a syringe, 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 (< 80 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 80 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 (< 80 µl): Elute the product with 500 µl reaction buffer. Larger volumes: Let the substrate run through the column and elute the residual product solution with 500 µl reaction buffer. It does not harm the columns if they run dry. 5. Wash the column with 2 ml washing buffer. 6. Equilibrate the column with 2 ml storage buffer. Store the column at 4°C. Never freeze a CR-column!

Storage and Shipping Information

Storage	4 °C