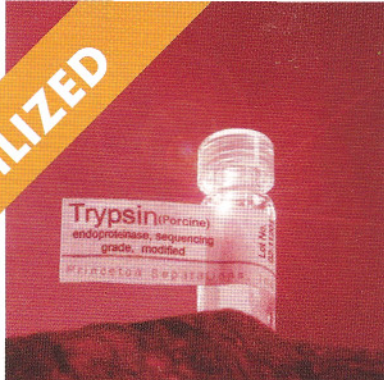


IMMOBILIZED



Sequencing Grade

Immobilized **TRYPSIN** (Porcine)

Endoproteinase

■ **Unique Immobilization Method**

- Covalently bonded to solid support
- Use directly from the vial : No special preparation
- Fast digestion: Complete fragmentation of most proteins in 20 - 30 minutes
- Easy and simple removal of buffer and enzyme
- Eliminates cleaning of the digestion products

Princeton Separations

immobilized sequencing grade Trypsin offers:

- Specificity
- Speed: digestion of most proteins in just 30-60 minutes
- Stability: no autolytic by-products
- Fast simple purification protocol: 2 minute centrifugation for fragment recovery
- Active with 1M to 8M urea



**PRINCETON
SEPARATIONS**

PO Box 300, Adelphia, New Jersey 07710

Tel: 800-223-0902 • Fax: 732-431-3768

e-mail: info@prinsep.com

<http://www.prinsep.com>

Meeting the Challenges of Proteomics!

Immobilized Trypsin (Porcine), Sequencing Grade

Characteristics

Trypsin is a serine endoproteinase which specifically cleaves peptide bonds on the carboxy side of Arginine, Lysine and s-aminoethyl cysteine residues. There is little or no cleavage at arginyl-proline or lysyl-proline bonds.

Princeton Separations Sequencing Grade Immobilized Porcine Trypsin, TPCK treated, is immobilized on Silica beads by covalent chemical bonds. The resulting gel is suspended in deionized water at 30% - 70% solids.

Applications

The Sequencing Grade, Immobilized Porcine Trypsin is supplied as a Gel in aqueous suspension and can be used directly from the container without any prior preparations such as washing or reconstitution. The composition of the Immobilized Trypsin Gel is adjusted so that 1 μ L of gel suspension is equivalent to 0.5 μ g of native Trypsin. A reaction buffer, 1M Triethylamine acetate, pH 8.0 is provided. This buffer is volatile and can be removed easily by Speed-Vac centrifuge.

For accelerated digestion (30 - 60 minutes), a ratio of 1:10 enzyme to protein substrate is recommended. For routine digestion (4 hours - overnight) the recommended ratio is 1:25.

Storage

Store Immobilized Trypsin vial and buffer vial at 2-8°C. DO NOT FREEZE. The product is stable for 6 months at 2-8°C.

Quality Control

Two assays are used for Quality Control: an amidase assay (using Benzoyl-Arginyl-para-nitroaniline as substrate) and a protein digestion assay using casein as substrate. The activity against casein is routinely compared with unmodified Trypsin and a Trypsin Activity Equivalence is calculated. To check for enzyme specificity an array of synthetic peptides is used.

Denaturing Agents

For difficult to solubilize proteins, denaturing agents such as urea may be needed in the protein mix prior to the digestion process. The Princeton Separations Immobilized Trypsin retains its full activity through the range 1M to 8M urea. We do not recommend the use of guanidine HCl when using Trypsin in any concentration.

Ordering Information:

Catalog Number EN-251

Immobilized Trypsin (Porcine) endoproteinase,
Sequencing Grade 1 x 200 μ L gel + 1 mL Reaction Buffer



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