

Product Name

Name: Trypsin Solution B (0.25%), without Phenol Red

Cat. No.: C3683-0100

Size: 100 mL

Product Description

Trypsin, an animal-derived product, is the most commonly used enzyme for harvesting cells in culture. Trypsin is a pancreatic serine protease (proteolytic enzyme) with specificity for peptide bonds involving the carboxyl group of the two basic amino acids, arginine and lysine. Purified trypsin from porcine pancreas often contains a crude mixture of lipases, nucleases, polysaccharides, and proteases.

VivaCell's Trypsin is designed not only to gently dissociate cells from almost any support substrates but also as well as from each other in order to actualize cell manipulation techniques in addition to other studies that require intact cell surface proteins. As a solution, Trypsin, is available in a varied array of formulations with or without EDTA. EDTA is a chelator that binds calcium and magnesium ions which may otherwise inhibit the trypsin activity. Trypsin is often the subculturing agent of choice for cell dissociation of adherent cells, although the treatment may be cytotoxic if prolonged. Over-trypsinization is a common cause of subculture problems. In a serum-free culture experiments, the trypsin reaction may be terminated by separating the cells from the solution via centrifugation or by utilizing trypsin inhibitors such as Soybean Trypsin Inhibitor (SBTI).

Predominant Characteristics

- Animal-derived source.
- Suitable for cell culture applications.
- Long-term storage when handled properly under defined conditions.

Storage & Stability

- The product should be kept at **-20°C**.
- The product is **light-sensitive** and therefore should not be left in the light.
- Shelf life: 18 months from date of manufacture.
- The product should be aliquoted in smaller volumes to avoid repeated freeze and thaw.

Procedure

- Use PBS or 0.85% saline solution to dilute the trypsin solution B 10 times, (add 5 mL trypsin solution B to 45 mL PBS or saline solution), adjust to pH 7.0 with 1 N HCL or 1 N NaOH, and put it in a 37°C incubator for later use.
- When the temperature of the trypsin solution B rise to 37°C, put the baked specimens (which has been baked at 70°C for 2 - 3 h and keep in a 37°C incubator before this step) into the trypsin solution B, shake gently, remove after 3 - 7 s, and rinse with distilled water.
- Use Giemsa to stain for 8 - 10 min.

- Use distilled water to rinse away the excess Giemsa stain, and examine under microscope after drying.

Quality control

Trypsin Solution B (0.25%), without Phenol Red is tested for sterility, pH, osmolality. In addition, each batch is tested for cell growth performance.

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.