

Product Information

Trypsin (2.5%) in DPBS(10x)

Catalogue Number: GBT02/02F

General Information

trypsin solutions are designed to efficiently detach adherent cells from culture surfaces. Made from natural porcine pancreas-derived trypsin, our products provide reliable performance for a variety of applications.

The concentration of trypsin required to effectively dislodge cells varies based on cell type and culture age. We recommend testing different formulations to identify the optimal solution for your specific needs.

Product Specification

| | |
|-----------------------|---|
| Appearance | : Clear frozen liquid |
| Storage & Shelf Life | : Store at $\leq -15^{\circ}\text{C}$. Avoid repeated freeze-thaw cycles. Preparation of aliquots recommended. Once opened, store at 4°C and use within 2-4 weeks |
| Shipping Conditions | : Frozen (Dry ice) |
| Thawing | : $+37^{\circ}\text{C}$ water bath or overnight at $+2^{\circ}\text{C}$ to $+8^{\circ}\text{C}$. Swirl gently to homogenize |
| Working Concentration | : Recommended final concentration: 1 x |

Formulation

| Components | Concentration mg/L |
|----------------------------------|--------------------|
| KCl | 200.00 |
| KH ₂ PO ₄ | 200.00 |
| NaCl | 8000.00 |
| Na ₂ HPO ₄ | 1150.00 |
| Trypsin | 25000.00 |

Instructions for Use

Prepare 1x solutions from 10x concentrates:

To prepare an acceptable final 1x solution, perform the following procedure under aseptic conditions.

1. The product can either be thawed in a $+37^{\circ}\text{C}$ water bath or overnight at $+2^{\circ}\text{C}$ to $+8^{\circ}\text{C}$.
2. Aseptically dilute 100 ml of 10x concentrate with approximately 850 ml of a sterile Ca^{2+} and Mg^{2+} -free salt solution (see related products). Mix completely.
3. If necessary, adjust the pH as necessary with 1 N HCl or 1 N NaOH to pH 7.2 – 7.8.
4. Adjust the final volume with the sterile Ca^{2+} and Mg^{2+} -free salt solution.
5. Dispense the solution into sterile containers. Cap the bottles tightly with sterile closures and store at $\leq -15^{\circ}\text{C}$.

Disclaimer: User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

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Detachment of adherent cells using Trypsin-EDTA:

Trypsin (0.25 %) in DPBS (1x) solution is supplied as a sterile, ready-to-use, frozen liquid. This entire procedure should be done in a laminar flow hood using proper aseptic technique.

1. The product can either be thawed in a +37°C water bath or overnight at +2°C to +8°C.
2. Carefully aspirate all of the media from the cell culture flask.
3. Rinse cells with Ca²⁺ and Mg²⁺-free salt solution (see related products), aspirate, and discard.
4. Prewarm the trypsin solution in a +37°C water bath. Add enough trypsin solution to completely cover the cells.
5. Incubate the flask at +37°C, or for more sensitive cultures, at room temperature or +2°C to +8°C.
6. When the trypsinization process is complete, cells will appear rounded upon microscopic examination and the solution in the flask will appear cloudy. Check the flask often to avoid overexposure. Trypsin can cause cellular damage and time of exposure should be kept to a minimum. The time required to detach cells from the culture surface is dependent on the cell type, the age of the culture, population density, serum concentration in the growth medium and time since last subculture.
7. Neutralize trypsin either with serum containing medium or trypsin inhibitor. Gently centrifuge the cell suspension and discard the trypsin-containing supernatant.
8. Resuspend the cell pellet with fresh medium and count or culture as desired.

This product is for research use only.

Need help?

If you have any further queries, please feel free to email our cell culture specialists at info@genexisbiotech.com