Product Information

Trypsin-EDTA (0.05 %) in DPBS (1x)
Cat. No. TRY-1B (100 ml)

General Information

Trypsin-EDTA solutions are used to detach adherent cells from culture surfaces. They are composed of natural porcine pancreas-derived trypsin and EDTA. The concentration of trypsin necessary to dislodge cells from their substrate is dependent primarily on the cell type and the age of the culture. Various formulations should be tested to determine the best product for a specific application.

Product Specifications

Appearance	Clear frozen liquid
Storage and shelf life	Store at ≤-15°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°C water bath or overnight at +2°C to +8°C. Swirl gently to homogenize.

Formulation

Components	Concentration mg/L
EDTA 4Na	220.00
KCl	200.00
KH_2PO_4	200.00
NaCl	8000.00
Na_2HPO_4	1150.00
Trypsin	500.00

Instructions for Use

Detachment of adherent cells using Trypsin-EDTA:

Trypsin-EDTA (0.05 %) 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. Carefully aspirate all of the media from the cell culture flask.
2. Rinse cells with Ca^{2+} and Mg^{2+}-free salt solution (see related products), aspirate, and discard.
3. Prewarm the trypsin solution in a +37°C water bath. Add enough trypsin solution to completely cover the cells.
4. Incubate the flask at +37°C, or for more sensitive cultures, at room temperature or +2°C to +8°C.
5. 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.
6. 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.

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Related Products

Product	Cat. No.
Dulbecco's PBS (1x), w/o Ca & Mg, w/o Phenol Red	PBS-1A
Hank's Balanced Salts, w/o Ca & Mg, w/o Phenol Red	HBSS-2A

Precautions and Disclaimer

The product is for research and further manufacturing only.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (techservice@capricorn-scientific.com) or phone (+49 6424 944640).