Reagents for cell detachment

PromoCell®

Instruction manual

Product	Size	Catalog number
Trypsin/EDTA (0.04% (w/v)/ 0.03% (w/v))	30 ml 125 ml 250 ml	C-41000 C-41010 C-41020
Trypsin/EDTA 2 (0.025% (w/v)/ 0.01% (w/v))	30 ml 125 ml 250 ml	C-41002 C-41012 C-41022
Trypsin Neutralizing Solution (0.05% (w/v) Trypsin Inhibitor in 0.1% (w/v) BSA)	30 ml 125 ml 250 ml	C-41100 C-41110 C-41120

Product description

Trypsin is still the most widely employed enzyme used for cell detachment. Our Trypsin Solutions exhibit standardized enzyme activity and contain trypsin from extra-pure lots.

Storage and stability

Store at -20°C in the dark immediately after arrival for long term storage. The product is shipped with cool packs, so may arrive thawed and can be refrozen without any loss of quality. However, avoid repeated freeze/thaw cycles. Thawed solutions can be stored at 4 to 8°C and used for up to 6 weeks. If stored properly, the product is stable until the expiration date stated on the label.

Quality control

All lots of PromoCell Cell Detachment Reagents are subjected to comprehensive quality control tests. Each lot is routinely tested for biological function, absence of cytotoxicity, and physical parameters such as osmolality and pH level. Approved in-house lots are used as a reference.

In addition, all lots have been tested for the absence of microbial contaminants (fungi, bacteria).

Intended use

The products are for *in vitro* research use only and not for diagnostic or therapeutic procedures. For safety precautions please see appropriate MSDS.

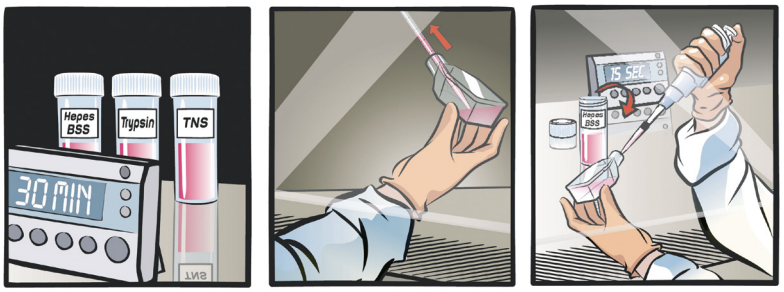
Subcultivation protocol

Use aseptic techniques and a laminar flow bench.

1

Prepare the reagents and wash the cells

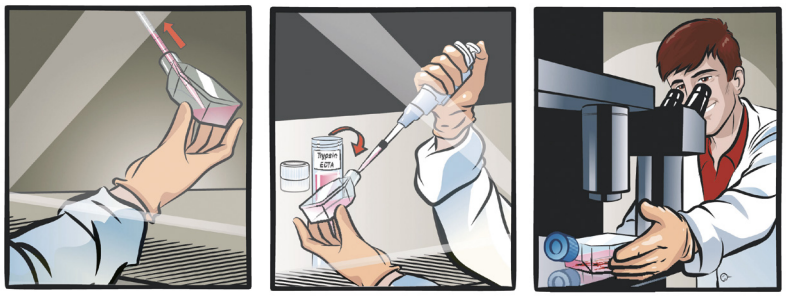
Place Trypsin/EDTA or Trypsin/EDTA 2 and Trypsin Neutralizing Solution at room temperature for at least 30 minutes to adjust the temperature of the reagents. Carefully aspirate the medium from the culture vessel. Add 100 µl HEPES BSS Solution per cm^2 of vessel surface to wash the cells and agitate the vessel carefully for 15 seconds.



2

Detach the cells

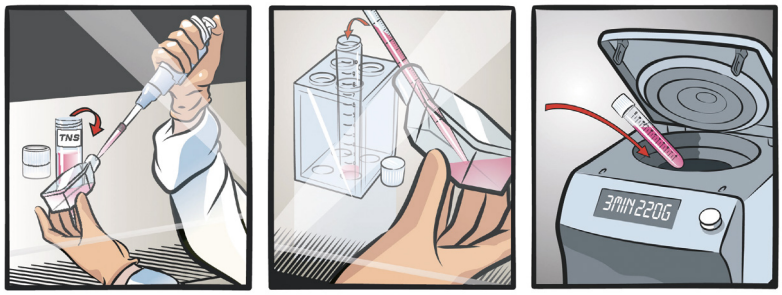
Carefully aspirate the HEPES BSS from the culture vessel. Add 100 µl Trypsin/EDTA or Trypsin/EDTA 2 Solution per cm^2 of vessel surface. Note: We recommend detaching the cells at room temperature. Close the vessel and examine the cells under a microscope. When the cells start to detach, gently tap the side of the vessel to loosen remaining cells.



3

Neutralize the trypsin and harvest the cells

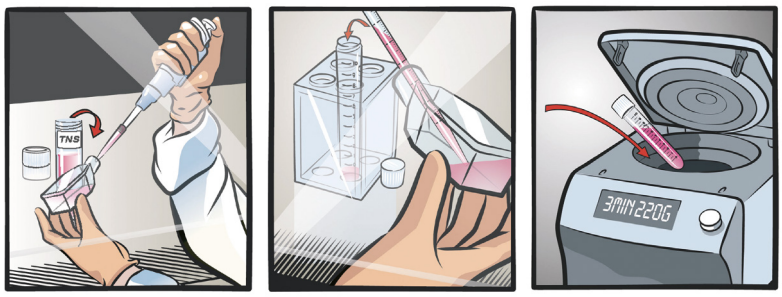
Add 100 µl Trypsin/EDTA or Trypsin/EDTA 2 per cm^2 of vessel surface and gently agitate. Carefully aspirate the cell suspension and transfer it to a centrifugation tube. Spin down the cells for 3 minutes at 220 x g.



4

Incubate the cells

Discard the supernatant (step 1), add 1 ml of the appropriate PromoCell Cell Growth Medium (step 2), and resuspend the cells by carefully pipetting up and down. Determine the cell number and plate the cells according to the recommended seeding density in new cell culture vessels containing PromoCell Cell Growth Medium pre-warmed to 37°C. Place the vessels in an incubator (37°C, 5% CO_2).



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