DetachKit

PromoCell®

Instruction manual

Product	Size	Catalog number
DetachKit	30 ml 125 ml 250 ml	C-41200 C-41210 C-41220

DetachKit		DetachKit 30 C-41200	DetachKit 125 C-41210	DetachKit 250 C-41220
Contains	HEPES BSS Trypsin/EDTA (ready-to-use) TNS	C-40000 C-41000 C-41100	C-40010 C-41010 C-41110	C-40020 C-41020 C-41120

Product description

Our DetachKit was designed for the safe and efficient detachment of primary human cells in routine subculturing.

The DetachKit conists of three components: HEPES Buffered Saline Solution (BSS), Trypsin/EDTA (ready-to-use) solution and Trypsin Neutralizing Solution (TNS).

The Trypsin/EDTA is a ready-to-use solution standardized to 700 BAEE-U/ml enzymatic activity, ensuring consistent and reliable cell detachment performance. This activity level of 700 BAEE-U/ml is functionally equivalent to a 0.04% solution. The EDTA concentration is 0.03% (w/v).

HEPES BSS contains 30 mM HEPES, D-Glucose, NaCl, KCL and sodium phosphate. TNS contains 0.05% Trypsin Inhibitor from soybean and 0.1% Bovine Serum Albumin (BSA). All three components (Trypsin/EDTA (ready-to-use), HEPES BSS, and TNS) contain phenol red.

Storage and stability

Store at -20°C in the dark after arrival for long term storage. If stored properly, the product is stable until the expiration date stated on the label. The product is shipped with cool packs, so may arrive thawed and can be re-frozen 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.

Quality control

All lots of our DetachKit are subjected to comprehensive quality control tests. Each lot is routinely tested for use with primary human cells, the 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 and 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.

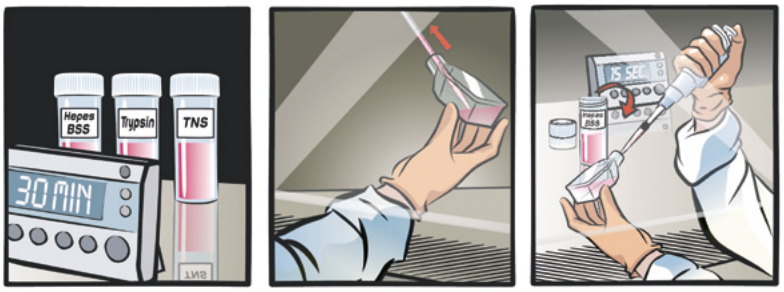
Subcultivation protocol

Use aseptic techniques and a laminar flow bench.

1

Prepare the reagents and wash the cells

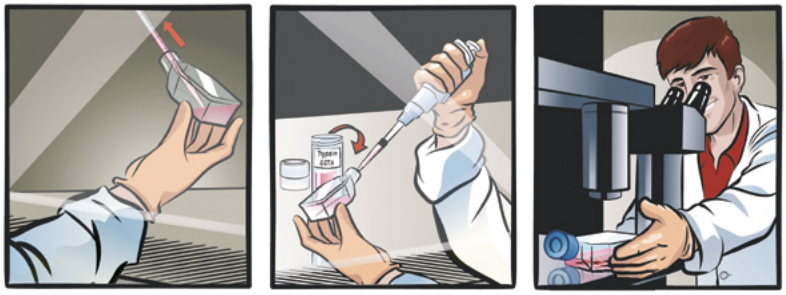
Place the DetachKit at room temperature for at least 30 minutes to adjust the temperature of the reagents. Carefully aspirate the medium from the culture vessel. Add 100 µl HEPES BSS Solution per cm^2 of vessel surface to wash the cells and agitate the vessel carefully for 15 seconds.



2

Detach the cells

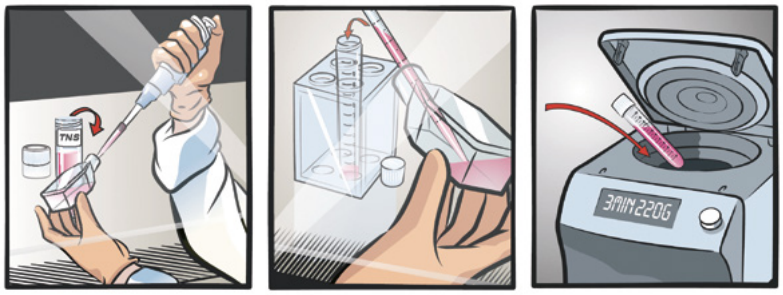
Carefully aspirate the HEPES BSS from the culture vessel. Add 100 µl Trypsin/EDTA (ready-to-use) solution per cm^2 of vessel surface. Note: We recommend detaching the cells at room temperature. Close the vessel and examine the cells under a microscope. When the cells start to detach, gently tap the side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



3

Neutralize the trypsin and harvest the cells

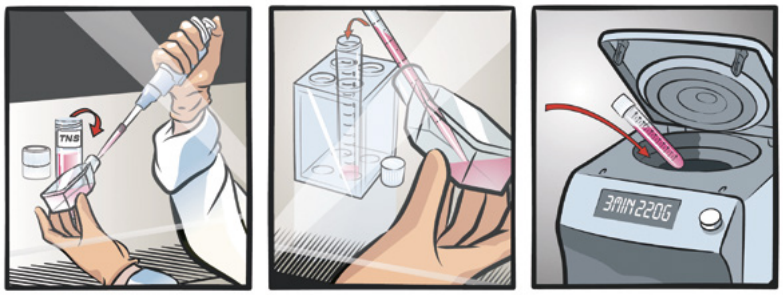
Add 100 µl Trypsin Neutralizing Solution per cm^2 of vessel surface and gently agitate. Carefully aspirate the cell suspension and transfer it to a centrifugation tube. Spin down the cells for 3 minutes at 220 x g.



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 prewarmed to 37°C. Place the vessels in an incubator (37°C, 5% CO_2).



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