DetachKit / DetachKit 2

PromoCell

Instruction Manual

Product	Size	Catalog Number
DetachKit	30 ml 125 ml 250 ml	C-41200 C-41210 C-41220
DetachKit 2	30 ml 125 ml 250 ml	C-41202 C-41212 C-41222

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

DetachKit 2		DetachKit 2-30 C-41202	DetachKit 2-125 C-41212	DetachKit 2-250 C-41222
Contains	HEPES BSS Trypsin/EDTA 2 TNS	C-40000 C-41002 C-41100	C-40010 C-41012 C-41110	C-40020 C-41022 C-41120

Product Description

PromoCell DetachKits were designed for the safe and efficient detachment of primary human cells in routine subculturing. DetachKit 2 is especially valuable for more sensitive cell types.

Each DetachKit consists of three components: HEPES BSS (HEPES buffered Balanced Salt Solution), Trypsin/EDTA Solution and TNS (Trypsin Neutralization Solution).

The DetachKit comes with Trypsin/EDTA (0.04%/0.03%) whereas the DetachKit 2 contains a lower concentration of Trypsin/EDTA (0.025%/0.01%). HEPES BSS contains 30 mM HEPES, D-Glucose, NaCl, KCl, Na-Phosphate and Phenol Red. TNS contains 0.05% Trypsin Inhibitor from soybean and 0.1% Bovine Serum Albumin.

Storage and Stability

Store at -20°C in the dark immediately after arrival. Refrigerate thawed solution at 4 to 8°C. If stored properly, the product is stable until the expiry date stated on the label. Thawed solutions can be stored at 4 to 8°C and used for up to 6 weeks.

Quality Control

All lots of PromoCell's DetachKits 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, bacteria, mycoplasma).

Intended Use

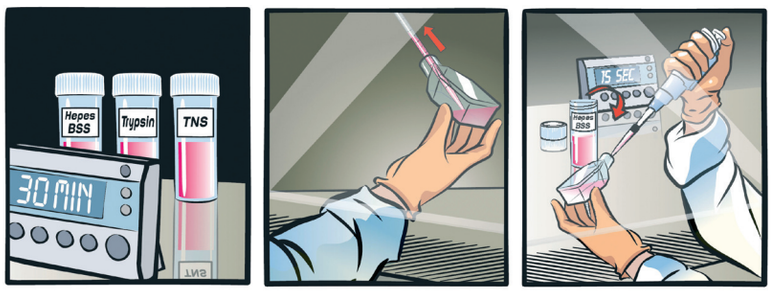
The products are for *in vitro* research use only and not for diagnostic or therapeutic procedures. For safety precautions please see appropriate MSDS.

Use aseptic techniques and a laminar flow bench.

Subcultivation Protocol

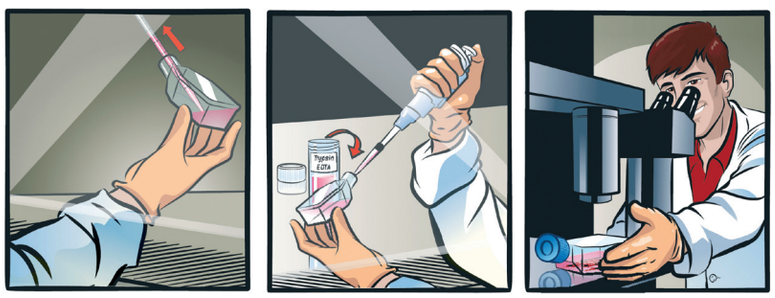
1. Prepare the reagents and wash the cells

Place the PromoCell 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.



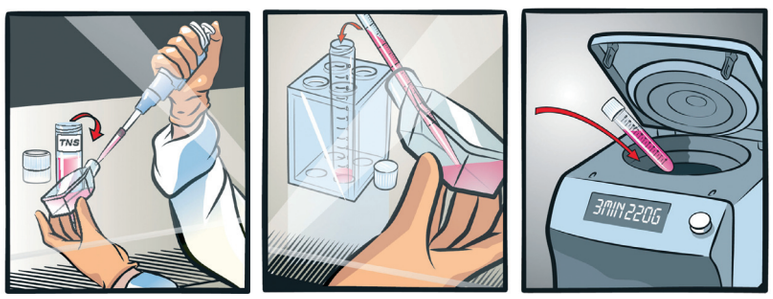
2. Detach the cells

Carefully aspirate the HEPES BSS from the culture vessel. Add 100 µl Trypsin/EDTA 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 the remaining cells.



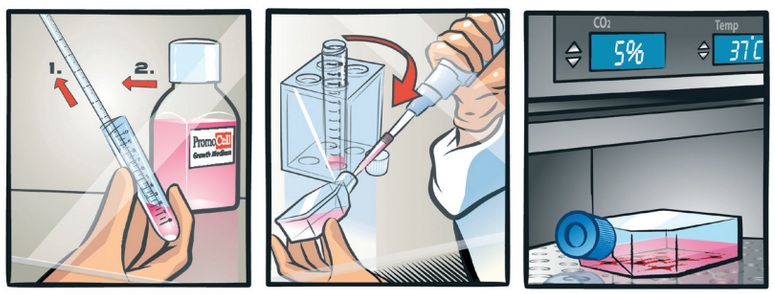
3. Neutralize the trypsin and harvest the cells

Add 100 µl Trypsin Neutralization 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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