HyrTryp
cell dissociation reagent

HYCLONE MEDIA AND SUPPLEMENTS

Dissociate and harvest cells with confidence using HyrTryp™ cell dissociation reagent (Fig 1), an animal-derived component-free (ADCF) recombinant alternative to porcine trypsin. This high-quality reagent is well-suited for cell-based vaccine production, as well as for stem cell, primary cell, and gene therapy cell culture processes. Use with attachment-dependent cell types, including MRC-5, Vero, and CHO K-1 cell lines grown with or without serum. Simply substitute it for porcine trypsin—there's no need to adjust your protocol.

- **Regulatory friendly** — animal-derived component-free (ADCF).
- **Dye-free** — no phenol red.
- **Flexible** — suitable for a variety of applications and cell types.
- **Effective** — cell dissociation is comparable to standard trypsin.
- **Gentle** — does not impact cell line viability and doubling times.

Fig 1. HyrTryp cell dissociation reagent.

Shelf life

When stored at -20°C, HyrTryp has a shelf life of 12 months from the manufacturing date.

Recommendations for use

To detach cells from a tissue culture vessel to allow subculturing and expansion:

1. Examine cells under a microscope to ensure 60% to 90% confluency, normal cell morphology, and lack of microbial contamination.
2. Thaw the bottle of HyrTryp cell dissociation reagent.
3. Using aseptic techniques, aspirate the medium from the tissue culture vessel. Wash the cell monolayer twice with sterile phosphate-buffered saline (PBS) without calcium and magnesium), then aspirate the PBS after the final rinse.
4. Add HyrTryp solution using a sterile pipette and aseptic techniques. We recommend 5 to 10 mL per 75 cm^2 surface area, but you can adjust the volume for your cell culture needs. Gently rock the tissue culture vessel to completely immerse the cell monolayer.
5. Examine the cells for detachment every 2 to 3 min. Depending on your cell line, it might take 5 to 15 min for complete detachment. For some cell lines, you might need to centrifuge and/or incubate at 37°C for 5 to 10 min to completely detach the cells.
6. Neutralize the trypsin. Using aseptic techniques, aspirate the liquid from the tissue culture vessel. Add complete, serum-containing medium (or soybean trypsin inhibitor, if you must have full ADCF compliance), at approximately the same volume as the volume of trypsin used. Pipette up and down several times to break up any cell clumps and wash the sides of the vessel. If you use soybean trypsin inhibitor, transfer into a centrifuge tube, and centrifuge at 100 × g for approximately 5 min. Then aseptically resuspend cells in complete culture medium. It is important to obtain a single cell suspension at this stage.
7. Count the cells and passage as usual.

Ordering information

Product	Pack size	Product code
HyrTryp cell dissociation reagent	100 mL	SV30209.01
HyrTryp cell dissociation reagent	500 mL	SV30209.02

Related products	Pack size	Product code
PBS without calcium and magnesium	1000 mL 6 × 1000 mL	SH30256.02 SH30256.LS
Cytodex 1 (dry powder)	25 g 100 g 500 g	17044801 17044802 17044803
Cryopreservation medium	100 mL	SH30894.01

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