

# TrypLE™ Select

Catalog Numbers 12563011, 12563029, 12563030, 12563031, A1217701, A1217702, A1217703

Pub. No. MAN0019355 Rev. B



**WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

## Product description

TrypLE™ is an animal origin-free recombinant enzyme alternative to porcine or bovine trypsin for the dissociation of attachment-dependent cell lines from plasticware. TrypLE™ cleaves peptide bonds on the C-terminal side of lysine and arginine but with greater specificity than native trypsin preparations due to the superior purity of TrypLE™. TrypLE™ has demonstrated the ability to dissociate cells cultured both in serum-free and serum supplemented systems. TrypLE™ products are formulated in DPBS/1 mM EDTA, are room-temperature stable, and are convenient to use.

## Contents and storage

Product	Cat. No.	Amount	Storage	Shelf life <sup>[1]</sup>
TrypLE™ Select Enzyme (1X), no phenol red	12563011	100 mL	15°C to 30°C; Protect from light	24 months
	12563029	500 mL		
	12563030	5 L		
	12563031	10 L		
TrypLE™ Select Enzyme (10X), no phenol red	A1217701	100 mL	15°C to 30°C; Protect from light	24 months
	A1217702	500 mL		
	A1217703	20 × 100 mL		

<sup>[1]</sup> Shelf life duration is determined from Date of Manufacture.

## Procedural guidelines

- TrypLE™ Select is formulated using dedicated animal origin-free equipment at our cGMP compliant facility.
- No inactivation required; dilution alone inactivates TrypLE™ avoiding the need for trypsin inhibitors.

## Detach cells

TrypLE™ is designed as a direct substitute for trypsin in existing protocols.

- Pre-warm TrypLE™ and complete growth medium to 37°C before use. Minimize dwell time.  
**Note:** TrypLE™ may be used at ambient room temperature for many types of cells.
- Aspirate the spent medium and discard.
- Wash the cell monolayer with 5 mL of Dulbecco's Phosphate Buffered Saline (DPBS) without calcium and magnesium. Aspirate and discard.
- Add an appropriate volume (e.g., 5 mL in a 75 cm<sup>2</sup> flask) of TrypLE™ to a flask. Ensure complete coverage of the cell monolayer with TrypLE™.
- Incubate at 37°C until cells have detached. Observe the cell monolayer using an inverted microscope to ensure complete cell detachment from the surface of the flask. Gently tap the flask to dislodge cells if necessary.
- Add 5–10 mL of pre-warmed complete medium to the flask. Tilt the flask in all directions to thoroughly rinse flask. Transfer the cell suspension to a 15 mL conical tube.
- Centrifuge at 100 × *g* for 5–10 minutes.
- Discard the supernatant and resuspend the cell pellet with 2–5 mL of pre-warmed complete medium.
- Determine the viable cell density and percent viability using a Countess™ Automated Cell Counter (similar automated or manual methods may be used).
- Seed, incubate and subculture according to normal protocols depending on your cell type.

Note: Use of soybean trypsin inhibitor is not recommended.

(Optional) Dilute TrypLE™ Select 10X

TrypLE™ 10X stock solution is designed for the dissociation of attachment-dependent cell lines with strong adhesive properties. TrypLE™ 10X can be used at the 10X concentration or diluted as desired for the dissociation of general cell lines from plasticware. Dilute TrypLE™ 10X as follows:


1. Prepare a 100 mM EDTA pH 8.0 (100X) solution. Filter (0.2-µm pore size) to sterilize.
2. Aseptically prepare DPBS/1 mM EDTA buffer by adding 1 mL of 100X EDTA Solution (from Step 1) to 99 mL of DPBS without calcium and magnesium.
3. Aseptically dilute TrypLE™ Select 10X to desired concentration in DPBS/1 mM EDTA buffer.

Related products

Product	Cat. No.
Dulbecco's Phosphate Buffered Saline, without calcium and magnesium	14190136
Distilled Water	15230170
Trypsin-EDTA (0.05%), phenol red	25300054
UltraPure™ 0.5 M EDTA, pH 8.0	15575020
TrypLE™ Select CTS™	A1285901

Limited product warranty

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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](http://thermofisher.com/symbols-definition).

Revision history: Pub. No. MAN0019355 B

Revision	Date	Description
B	14 November 2024	<ul style="list-style-type: none"><li>• Update for release of TrypLE™ Select Enzyme (1X), no phenol red in 5 L (Cat. No. 12563030) and 10 L (Cat. No. 12563031) volumes.</li><li>• Remove stability guidelines in Procedural guidelines (page 1).</li><li>• Update SKUs in Related products (page 2).</li></ul>
1.0	4 May 2020	New document for TrypLE™ Select.

The information in this guide is subject to change without notice.

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