

# TrypLE™ Select CTS™

## Description

TrypLE™, an animal origin-free alternative to porcine trypsin, is a recombinant enzyme derived from microbial fermentation. TrypLE™ is used for the dissociation of attachment-dependent cell lines from plasticware. TrypLE™ has demonstrated ability to dissociate cells cultured both in serum-free and serum-supplemented systems. The Gibco CTS™ product line enables you to reduce your burden in qualifying reagents during your transition from research applications to clinical applications

Product	Catalog No.	Amount	Storage	Shelf Life*
TrypLE™ Select CTS™(1X), no phenol red	A12859-01	100 mL	15°C to 30°C; Protect from light	24 months

\* Shelf Life duration is determined from Date of Manufacture.

## Product Use

For Research Use or For Use in Manufacturing Cell-Gene- or Tissue-based Products. CAUTION: Not for direct administration into humans or animals.

## Important Information

- Formulated in DPBS with 1 mM EDTA.
- Substitutes directly into existing protocols.
- No inactivation required; dilution alone inactivates TrypLE™ avoiding the need for trypsin inhibitors.
- TrypLE™ is also stable when stored in PET bottles at 2°C to 8°C and -20°C to -5°C protected from light for up to 24 months.
- TrypLE™ packaged in the 5 L universal bag is also stable when stored at 2°C to 8°C protected from light for up to 24 months.

## Safety Information

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

## Use

TrypLE™ is designed as a direct substitute for trypsin in existing protocols. Optimal conditions and concentrations employed for individual systems should be determined empirically.

1. Prewarm 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.
2. Aspirate spent medium and discard.
3. Wash cell monolayer with 5 mL of prewarmed Dulbecco's Phosphate Buffered Saline (DPBS) CTS™ without calcium and magnesium. Aspirate and discard.
4. Add an appropriate volume (e.g., 5 mL in a 75 cm<sup>2</sup> flask) of TrypLE™ to the flask. Ensure complete coverage of cell monolayer with TrypLE™.
5. Incubate at 37°C until cells have detached. Observe cell monolayer using an inverted microscope to ensure complete cell detachment from the surface of the flask. Gently tap flask to dislodge cells.
6. Add 5–10 mL of complete medium to the flask. Tilt the flask in all directions to thoroughly rinse the flask. Transfer the cell suspension to a 15-mL conical tube.
7. Centrifuge at 100 × g for 5–10 minutes.

8. Discard supernatant and resuspend the cell pellet in 2–5 mL of complete medium.
9. Determine the viable density using a Countess® Automated Cell Counter or alternative automated or manual method.
10. Seed, incubate, and subculture according to normal protocols depending on your cell type.










**Note:** Use of soybean trypsin inhibitor is not recommended.

## Related Products

Product	Catalog No.
Dulbecco's Phosphate Buffered Saline (DPBS) CTS™ without calcium, magnesium, or phenol red (1X), Liquid	A12856
TrypLE™ Select (1X), no Phenol Red	12563
TrypLE™ Express (1X), no Phenol Red	12604
UltraPure™ 0.5 M EDTA, pH8.0	15575
Water, distilled	15230
Trypan Blue Stain	15250
Countess® Automated Cell Counter	C10227

## Explanation of Symbols and Warnings

The symbols present on the product label are explained below:

				
Temperature Limitation	Manufacturer	Batch code	Use By:	Catalog number
				
Caution, consult accompanying documents	Consult instructions for use	Protect from light	Sterilized using aseptic processing techniques	

## Limited Use Label License: Internal Research and Bioproduction Use

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product (a) to perform internal research for the sole benefit of the purchaser; and (b) to culture cells for the purpose of producing a product wherein the product will be used for any or all of the following: (i) internal research use by the purchaser; (ii) resale for internal research use by third parties; (iii) performance of research conducted by the purchaser on a fee for service or contract basis for or on behalf of third parties; (iv) resale for use as a human therapeutic agent or diagnostics product or component by third parties; (v) performance of manufacturing services conducted by the purchaser on a fee for service or contract basis for or on behalf of third parties.

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## Limited Product Warranty

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For additional technical information such as Safety Data Sheets (SDS), Certificates of Analysis, visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support)  
For further assistance, email [celltherapysupport@lifetech.com](mailto:celltherapysupport@lifetech.com)

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