

# CTS™ TrypLE™ Select

Catalog Numbers A4738001 and A1285901

Pub. No. MAN0007390 Rev. 2.0

 **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™, 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.

## Contents and storage

Product	Catalog No.	Amount	Storage	Shelf Life <sup>[1]</sup>
CTS™ TrypLE™ Select (Bag)	A4738001	1 L	15°C to 30°C Protect from light	12 months
CTS™ TrypLE™ Select (Bottle)	A1285901	100 mL	15°C to 30°C Protect from light	24 months

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

## Procedural guidelines

- 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.

## Detach cells

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 CTS™ Dulbecco's Phosphate Buffered Saline (DPBS) 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.
CTS™ Dulbeccos Phosphate Buffered Saline (DPBS) without calcium, magnesium, or phenol red (1X), Liquid	A12856
UltraPure™ 0.5 M EDTA, pH8.0	15575
Water, distilled	15230
Trypan Blue Stain	15250
Countess™ Automated Cell Counter	C10227

## Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at [www.thermofisher.com/us/en/home/global/terms-and-conditions.html](http://www.thermofisher.com/us/en/home/global/terms-and-conditions.html). If you have any questions, please contact Life Technologies at [www.thermofisher.com/support](http://www.thermofisher.com/support).



Life Technologies Corporation | 3175 Staley Road | Grand Island, New York 14072 USA  
For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](http://thermofisher.com/symbols-definition).

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

**DISCLAIMER:** TO THE EXTENT ALLOWED BY LAW, THERMO FISHER SCIENTIFIC INC. AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

**Revision history:** Pub. No. MAN0007390

Revision	Date	Description
2.0	05 March 2021	Rebranded. Added sku A4738001.
1.0	2012	New document.

**Important Licensing Information:** This product may be covered by one or more Limited Use Label Licenses. By use of this product, you accept the terms and conditions of all applicable Limited Use Label Licenses.

**Limited Use Label License No. 517: Internal Research and Bioproduction Use:** Notice to Purchaser: The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product to (a) perform internal research for the sole benefit of the purchaser; (b) manufacture protein (or other biological material) for resale; and (c) perform research or manufacturing services conducted by the purchaser on a fee for service or contract basis for or on behalf of third parties. However, the purchaser may transfer this product, its components, or materials made using this product to a third party (including contract research/manufacturing organizations), provided that each such third party agrees in writing to use such product, components, or materials solely on behalf of the purchaser, and such third party is restricted from further transferring any such product, components, or materials to any individual or entity other than the purchaser. No additional rights are granted. By purchasing this product, the purchaser agrees not to: (1) resell the product in any form; (2) use the product as a therapeutic agent or diagnostics test component; (3) reverse engineer the product or cause the product to be reverse engineered; or (4) use the product for purposes other than what is indicated in this Limited Use Label License. Life Technologies is not aware of Intellectual Property ("IP") that would be infringed by the manufacture or sale of its products. Customers are urged to perform an IP search and analysis specific to their manufacturing processes and target biologic products. Should that analysis require information about Life Technologies products, Life Technologies will provide to the customer's IP counsel the information necessary to analyze any relevant IP in a manner that protects Life Technologies proprietary information. The purchaser is responsible for obtaining all regulatory approvals necessary for any therapeutic or diagnostic use of the protein (or biological material) manufactured using this product. For information on obtaining additional rights, please contact [outlicensing@thermofisher.com](mailto:outlicensing@thermofisher.com) Licensing and Commercial Supply, Thermo Fisher Scientific, 5823 Newton Drive, Carlsbad, California 92008 USA

©2021 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.