

Is trypsin digesting your cell surface proteins?

Test the alternative—
TrypLE Express Enzyme

Cell surface proteins are essential for the normal functioning of cells in culture. The epitopes at the cell surface are important in techniques that leverage them, such as phenotyping cells in flow cytometry. Gibco™ TrypLE™ Express Enzyme is a highly purified, recombinant cell-dissociation enzyme that replaces porcine trypsin. Ideal for dissociating attachment-dependent cell lines, TrypLE Express Enzyme can directly substitute for trypsin without protocol changes.

TrypLE Express Enzyme is:

- **Stable at room temperature**—no need to freeze it, so TrypLE Express Enzyme is ready whenever you need it
- **Gentle on cells**—protect your cell's surface proteins (Figures 1 and 2)
- **Animal origin-free**

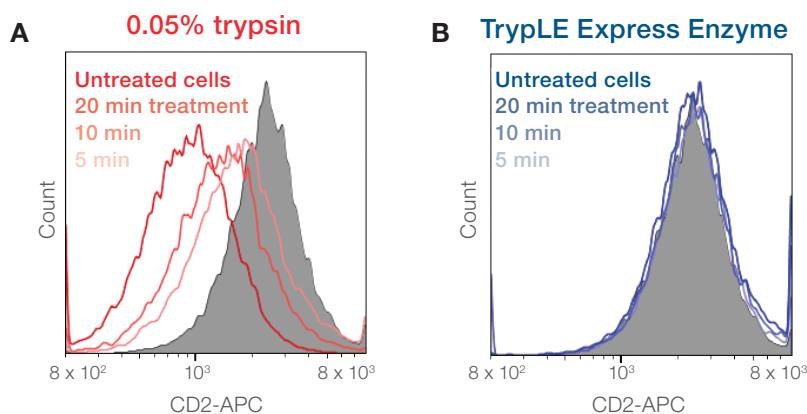


Figure 1. TrypLE Express Enzyme outperforms trypsin in preserving cell surface epitope expression. Jurkat cells were treated with (A) 0.05% trypsin or (B) TrypLE Express Enzyme for a period of up to 20 minutes. Cell surface CD2 was then quantitated via flow cytometry with an APC-conjugated anti-CD2 monoclonal antibody. While cells treated with 0.05% trypsin show a clear time-dependent reduction in CD2 levels, those treated with TrypLE Express Enzyme show no CD2 loss.

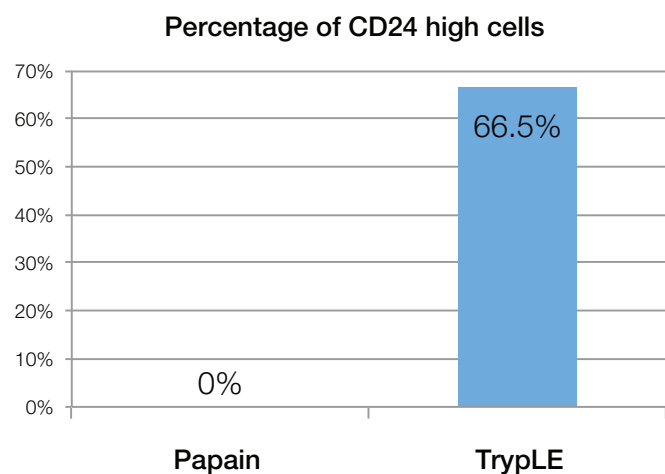


Figure 2. The CD24 epitope is retained with TrypLE Express Enzyme treatment but completely lost following treatment with papain.

Adapted from data shown in Panchision, DM et al. (2007) *Stem Cell* at <http://onlinelibrary.wiley.com/doi/10.1634/stemcells.2006-0260/full>

Ordering information

Product	Size	Cat. No.
TrypLE Express Enzyme (1X), phenol red	100 mL	12605010
TrypLE Express Enzyme (1X), phenol red	20 x 100 mL	12605036

Find out more at thermofisher.com/tryple