

# New! TrypZean™ Solution from Sigma-Aldrich

Non-animal recombinant trypsin solution for dissociating attached cells

TrypZean Solution, 1X (Product Code T 3449) is the first animal component-free trypsin solution optimized for cell dissociation. It is formulated with TrypZean, a recombinant bovine trypsin expressed in corn and manufactured by Sigma-Aldrich utilizing ProdiGene's proprietary transgenic plant protein expression system.

TrypZean Solution, 1X provides the following features and benefits:

### Animal component-free

TrypZean eliminates the risk of viruses, BSE, or other potential adventitious agents

### TrypZean is recombinant trypsin

Using the same enzyme (with the same kinetics) for cell detachment means minimal protocol changes for you

### Enzyme inhibition

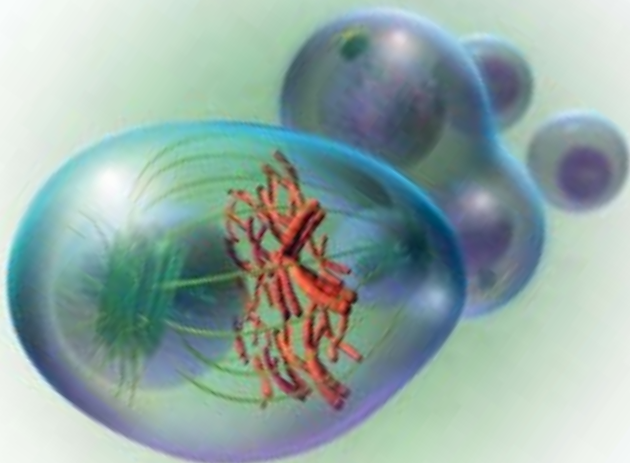
Soybean trypsin inhibitor and other inhibitors work the same with TrypZean as they do with native trypsin (on a weight-to-weight basis)

### High purity

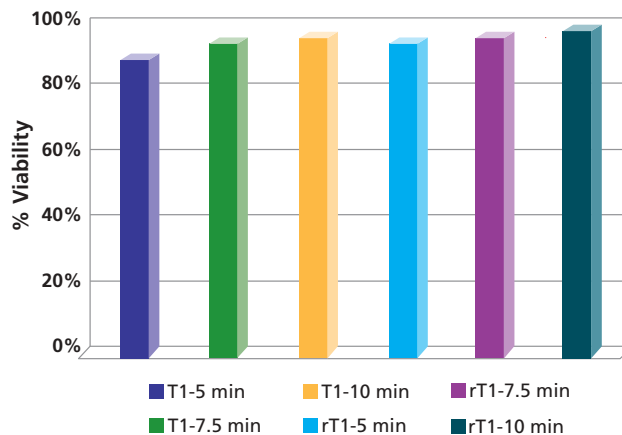
TrypZean provides increased specificity and eliminates contaminating activities found in lower purity enzymes

### Convenience

TrypZean Solution is formulated at the optimal concentration to dissociate adherent cells

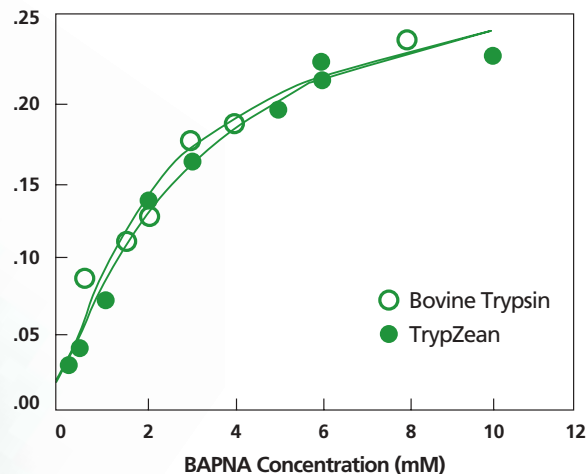


Percent Viability  
Vero Cells in DME/F12+ 10% FBS



Attached Vero cells were dissociated with TrypZean 1X Solution and with native trypsin-EDTA 1X solution, with cell viabilities measured at various time points. As is shown, viability of cells dissociated by TrypZean Solution is equivalent to the viability of cells dissociated by native trypsin.

Kinetics of TrypZean



Concentration dependant rates of hydrolysis of BAPNA for TrypZean and native bovine trypsin were compared. The data shows that the enzymatic kinetics for TrypZean and bovine trypsin are essentially identical.



**Native Trypsin 1X Solution**

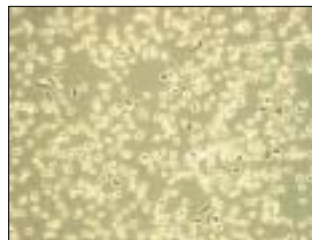


**5 minutes**



**10 minutes**

**TrypZean 1X Solution**



**5 minutes**



**10 minutes**

*The above pictures show Vero cells (grown in DME/F12 supplemented with 10% FBS) at various timed exposures to native trypsin and TrypZean.*

Product Code	Description	Package Size	Price
T 3449	TrypZean™ Solution, 1X	100 ml	\$33.00
		500 ml	\$90.00

To order call 1-800-325-3010 or order on-line at [sigma-aldrich.com](http://sigma-aldrich.com).

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

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The SIGMA-ALDRICH Family



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