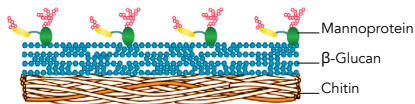


## Description:

Zymolyase Ultra is a novel formulation of enzyme that is optimized for efficient yeast cell wall digestion. It contains enzymes that degrade several different components of yeast cell walls. It is extensively purified using a novel DNA/RNA removal technology that results in extremely low nucleic acid contamination.

## Key Features:

- **Ultra Efficient:** > 50 times more efficient than lyticase.
- **Low Bioburden:** Up to 70-fold less DNA contamination compared to other suppliers.
- **Exceptional Solubility & Stability:** Dissolves in seconds and stable for more than 8 freeze-thaw cycles.



## Storage:

Lyophilized enzyme is stable at room temperature. After reconstitution, aliquot and store at  $-20^{\circ}\text{C}$ .

## General Applications:

- Protoplast/Spheroplast preparation.
- Transformation of yeast cells.
- Yeast cell detection and fusion.
- Yeast genetics.
- Yeast plasmid, DNA, RNA and protein purification.
- Yeast lysis for downstream PCR applications.

## Components:

Cat.#	Size	Format
E1007T	100 U	Lyophilized
E1007-2	2,000 U	Lyophilized
E1007-10	10,000 U	Lyophilized

## Unit Definition:

One lytic unit is defined as catalyzing a 10% decrease in absorbance at 800 nm at 30°C in 30 minutes. Assay condition: 50 mM potassium phosphate, pH 7.5, in 1 ml yeast cell suspension of  $A_{800}$  0.8 to 1.0.

## Reconstitution:

Resuspend lyophilized Zymolyase Ultra in nuclease-free water to 5 U/ $\mu$ l. Mix by gentle pipetting. For bioburden sensitive applications use autoclaved low-bioburden water.

## Application Notes:

- Soluble in water, Tris-Cl and phosphate buffers etc.
- Optimal activity at pH 6.5-8.5 in water, Tris-Cl and phosphate buffers etc. and temperatures between 4-37°C.
- $\beta$ -mercaptoethanol is not essential but can increase cell lysis efficiency.
- 50 U Zymolyase Ultra can efficiently lyse  $1.6 \times 10^8$  *Saccharomyces* and  $8 \times 10^7$  *Candida* cells at 37°C in 30 min.

## Technical Support:

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