

## *Manual*

# Lyticase (solution)

Mix of enzymes for efficient lysis of yeast cell wall. Concentration 10 U/ $\mu$ l.

| catalog # | size         |
|-----------|--------------|
| 1018-10   | 10 000 U     |
| 1018-50   | 5 x 10 000 U |

For research use only.

### **Guarantee**

A&A Biotechnology provides guarantee on this product.  
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

## Description

**Lyticase** is an enzymatic mixture from *Arthrobacter luteus*.

Enzyme is designed to yeast cell wall lysis.

The main component of lyticase is  $\beta$ -1,3 glucanase that hydrolyses poly- $\beta$ (1-3)-glucose such as yeast cell wall glucan. Lyticase efficiently lyses wall of *Ashbya*, *Candida*, *Debaryomyces*, *Eremothecium*, *Endomyces*, *Hansenula*, *Hanseniaspora*, *Kleocera*, *Kluyveromyces*, *Lipomyces*, *Metschikowia*, *Pichia*, *Pullularia*, *Torulopsis*, *Saccharomyces*, *Saccharomycopsis*, *Saccharomycodes*, *Schwanniomyces*.

## Application

- efficient yeast cell lysis for DNA and RNA isolation
- preparation of yeast and fungal spheroplasts for the transformation process

## Contents

|   | 1018-10  | 1018-50      | storage |
|---|----------|--------------|---------|
| lyticase  | 10 000 U | 5 x 10 000 U | -20 °C  |
| storage buffer:<br>20 mM Tris-HCl, pH 8.0, 50 mM NaCl, 50% glycerol (v/v) |          |              |         |

## Unit definition

1 U of lyticase will reduce turbidity  $\Delta A_{800}=0,001$  of a suspension of *S.cerevisiae* cells in 1 min in 50 mM phosphate buffer pH 7.5 in the presence of 10 mM DTT at 25 °C in 3 ml reaction mixture.

## Recommended use

Recommended use 100 U (10 µl) of lyticase for DNA/RNA isolation from 1 ml of yeast culture. DTT at final concentration of 10 mM should be added to the reaction. For best isolation results we recommend Genomic Mini AX Yeast (# 058-60), Genomic Mini AX Yeast Spin (# 058-100S).

## Safety information

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**DANGER**

H334 May cause allergy, asthma symptoms or breathing difficulties if inhaled.  
P261 Avoid breathing dust.  
P342+P311 If experiencing respiratory symptoms call a Poison Center or doctor physician.

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