

## Manual

# Lyticase (lyophilisate)

Mix of enzymes for efficient lysis of yeast cell wall.

catalog #	size
1018-5L	5 000 U
1018-10L	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. Lyticse efficiently lyses wall of *Ashbya*, *Candida*, *Debaryomyces*, *Eremothecium*, *Endomyces*, *Hansenula*, *Hanseniaspora*, *Kleockera*, *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

	1018-5L	1018-10L	storage
lyticase lyophilisate	5 000 U	10 000 U	-20 °C
lyticase storage buffer 20 mM Tris-HCl, pH 8.0, 50 mM NaCl, 50% glicerol (v/v)	1.1 ml	1.1 ml	-20 °C

# Unit definition

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

# Protocol

To obtain lyticase solution with concentration 10 U/μl dissolve whole content of vial of lyticase lyophilisate in lyticase storage buffer:

lyticase lyophilisate	lyticase storage buffer
5 000 U	500 μl
10 000 U	1 ml

Store prepared solution at -20 °C (maximum expiration is 6 months after dissolution).

## 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



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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