A&A BIOTECHNOLOGY
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Manual

Lyticase

Mix of enzymes for efficient lysis of yeast cell wall. Concentration 10 U/µl.

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 β-1,3 glucanase that hydrolyses poly-β(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

	1018-10	**1018-50**	**storage**
lyticase	10 000 U	5 x 10 000 U	-20 °C
storage buffer: 20 mM Tris-HCl, pH 8.0, 50 mM NaCl, 50% glicerol (v/v)			

Unit definition

1U of lyticase will reduce turbidity ΔA800=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.

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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version 2024-1