Longlife™ Zymolyase®

(Cat. # 786-036, 786-914)
INTRODUCTION
A ready to use Zymolyase® preparation is provided, which can be used for spheroplast preparation, yeast plasmid isolation / lysis of yeast cells and further extraction of soluble protein from them. The size of the supplied Longlife™ Zymolyase® is 1ml (2 x 0.5ml) in a concentration of 1500Units/ml.

APPLICATIONS
Spheroplast preparation / plasmid isolation, lysis and extraction of proteins from yeast cells

ITEM(S) SUPPLIED

<table>
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<th>Description</th>
<th>Cat. # 786-036</th>
<th>Cat. # 786-914</th>
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<tr>
<td>Longlife™ Zymolyase®</td>
<td>2 x 0.5ml [1.5Units*/μl]</td>
<td>5ml [1.5Units*/μl]</td>
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*One unit will produce a change of 0.001 OD$_{800}$ per minute at 25°C, using a yeast suspension as substrate in 3ml reaction mixture.

STORAGE CONDITIONS
It is shipped at ambient temperature. Upon arrival, store Longlife™ Zymolyase® at -20°C.

ADDITIONAL ITEMS REQUIRED

- β-mercaptoethanol
PROTOCOL

1. Suspend yeast cell pellet in an appropriate suspension buffer for efficient lysis. (G-Biosciences’ Yeast Suspension Buffer is recommended). Add 1μl of β-mercaptoethanol per 100 μl of yeast suspension buffer.

2. Vortex for approximately 1 minute until the cell suspension becomes homogenous. Incubate the suspension for 5 minutes in cold and vortex again to suspend the cells.

3. Flick the vial containing Zymolyase® to mix the solution. Add 5μl of Zymolyase® per 50μl of yeast cell pellet suspended in yeast suspension buffer. Gently mix the content.

4. Incubate the cell suspension at 37°C for 30-60 minutes.

5. At the end of incubation, centrifuge the yeast cell suspension at 10,000g for 5 minutes and remove the supernatant.

6. Lysis: Suspend the yeast cell pellet obtained, in an appropriate lysis buffer (G-Bioscience’s Yeast-PE LB™ recommended) two to three times the volume added in step 1. Pipette the suspension up and down a few times then vortex and incubate on ice for 30 minutes. The lysis may be further facilitated by incubating the cells at 37°C for 1-3 minutes.

7. Centrifuge at 1000g for 1h at 4°C and collect clear lysate. The lysate is now ready for protein purification and further analyses.

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RELATED PRODUCTS

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