

# Zymolyase™ (1)

Product Number:	E1001/E1002
Assay Date:	October 17, 2000
Concentration:	5 units per $\mu$ l
Description:	Our liquid yeast lytic enzyme is prepared from <i>Arthro bacter luteus</i> . The primary yeast lytic activity is $\beta$ -1, 3-glucan laminaripentao-hydrolase. It hydrolyzes glucose polymers at the $\beta$ -1,3-glucan linkages releasing laminaripentaose as the principal product.
Unit Definition:	One lytic unit is defined as a 10% decrease in absorbance at $A_{800}$ in 30 minutes. Assay condition: 50 mM potassium phosphate, pH 7.5, 10 mM 2-mercaptoethanol in 1 ml yeast cell suspension of $A_{800}$ 0.8 to 1.0.
Shipping and Storage Conditions:	Store at $-20^{\circ}\text{C}$ for frequent usage. Store below $-70^{\circ}\text{C}$ for infrequent usage (less than one time each month). The Yeast Lytic Enzyme is stable for 1 year at $-20^{\circ}\text{C}$ and for many years below $-70^{\circ}\text{C}$ .
Specification:	The essential enzyme activities are $\beta$ -1,3-glucan laminaripentaohydrolase and $\beta$ -1,3-glucanase. Protein contents: approximately 10-15 mg/ml. Other contaminants: protease, ca. 1.5 units per 10 $\mu$ l; DNase and RNase, none detectable. The enzyme lytic activity is lost in 5 minutes at $60^{\circ}\text{C}$ .
Caution:	This reagent contains the toxic chemical beta-mercaptoethanol. Use in a chemical fume hood. Further precautions should be taken according to your own company's regulations. For research uses only.
Approved:	_____

