

R-Zymolyase™ (/)

Product Number: E1003

Lot Number: E030698

Assay Date: August 1998

Concentration: 5 units/μl Zymolyase
0.5 units/μl RNase A

Description: R-Zymolyase is a mixture of Zymolyase and RNase A. This special formula of enzymes is specially manufactured for yeast genomic DNA preparations. Our liquid Zymolyase is prepared from *Arthrobacter luteus*. The primary yeast lytic activity is β-1,3-glucan laminaripentaohydrolase. It hydrolyzes glucose polymers at the β-1,3-glucan linkages releasing laminaripentaose as the principal product. This formula may be used as Zymolyase as it is, but be cautious that it contains RNase A. Optimal temperature range for use of this enzyme is 30-37°C.

Note: The following specifications of this data sheet is based on Zymolyase only. No RNase A data is provided.

Unit Definition: One lytic unit is defined as a 10% decrease in absorbance at A₈₀₀ in 30 minutes. Assay condition: 50 mM potassium phosphate, pH 7.5, 10 mM 2-mercaptoethanol in 1 ml yeast cell suspension of A₈₀₀ 0.8 to 1.0 at 37°C

Shipping and Storage Conditions: Store at -20°C for frequent usage. Store below -70°C for infrequent usage (less than one time each month). R-Zymolyase is stable for 1 year at -20°C and for many years below -70°C.

Specifications: The essential enzyme activities are β-1,3-glucan laminaripentaohydrolase and β-1,3-glucanase. Protein contents: approximately 10-15 mg/ml. Other contaminants: protease, ca. 1.5 units per 10 μl; DNase, none detectable. The enzyme lytic activity is lost in 5 minutes at 60°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.

Ordering Information:

Product	Cat. No.	Size	Price
R-Zymolyase™	E1001	1,000 units (5 units/μl)	60.00

