

Product Information

Zymolyase®-20T, 20, 000 U/g, 1 g

C/No.	K.RGT-9107-20000U
Enzyme Activity	20,000 U/g
Packaging	1 g
Storage	Below -70 °C After reconstitution, store at -20 °C for 12 months.

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Page 1 of 3

Description

Zymolyase®-20T is an enzyme preparation produced by submerged culture of *Arthrobacter luteus*. The main active component, β -1,3-glucan laminaripentaohydrolase, lyses yeast cell walls by hydrolyzing β -1,3-linked glucose polymers and releasing laminaripentaose as the predominant product. Its high lytic activity enables efficient digestion of yeast cell walls, making it ideal for the preparation of yeast protoplasts or spheroplasts from wide range of yeast strains.

Unit Definition

One unit of lytic activity is defined as the amount of enzyme that causes a 30% decrease in absorbance at 800 nm (A_{800}) of a brewer's yeast cell suspension (2 mg dry weight/mL) after incubation at 25 °C for 2 hours, under the reaction conditions using 0.05–0.1 mg/mL Zymolyase® -20T.

Applications

- Nucleic acid extraction from yeast
- Spheroplast/ protoplast formation

Page 2 of 3

Specificity (Lytic Spectrum)

Ashbya, *Candida*, *Debaryomyces*, *Eremothecium*, *Endomyces*, *Hansenula*, *Hanseniaspora*, *Kloeckera*, *kluyveromyces*, *Lipomyces*, *Metschnikowia*, *Pichia*, *Pullularia*, *Torulopsis*, *Saccharomyces*, *Saccharomycopsis*, *Saccharomycodes*, *Schwanniomyces*, etc.

Quality Control

Assay:

Lytic Activity

Specification:

min. 20, 000 units/ g

Page 3 of 3