

Zymolyase 100T Enzyme

Zymolyase 100T (Lyticase, Yeast Lytic Enzyme)

CATALOG # AAA14838	HOST Arthrobacter luteus
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PRODUCT SYNONYMS

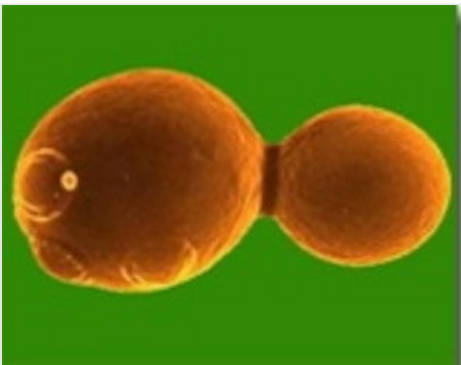
Zymolyase 100T; Zymolyase 100T (Lyticase; Yeast Lytic Enzyme); Zymolyase 100T enzyme

PRODUCT SPECIFICATIONS

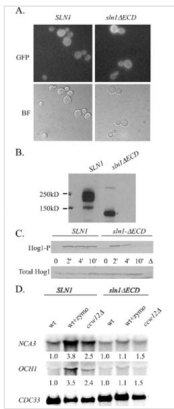
Host	Arthrobacter luteus
Purity/Purification	Molecular Biology Grade
Form/Format	Lyophilized powder; 0.06M Phosphate Buffer, pH 7.5
Application Notes	RNase Activity Assay: Trace RNase activity was detected. Method: AAA14838 was suspended in 50mM Tris-HCl buffer, pH 7.5. 10ul of AAA14838 was mixed with 140ul of cCMP (0.1mg/ml in 50mM Tris-HCl buffer, pH 7.5) and the increase of absorbance at 284nm was measured. Unit Definition: One RNase A unit is defined as the amount required for hydrolysis of cCMP that results in an increase of 0.001 absorbance units at 284nm per minute. DNase Activity Assay: Trace DNase activity was detected. Method: AAA14838 was suspended in 50mM Tris-HCl buffer, pH 7.5, at a concentration of 2mg/ml and centrifuged to remove the debris. The supernatant was used for the DNase assay. Reaction mixture (50mM Tris-HCl, pH 7.5, 1mM MnCl₂, 50ng/ul lambda DNA-HindIII-digest, 0.4mg/ml AAA14838) was incubated at 30°C for 12 hours, inactivated by heating, and the degradation of lambda DNA was detected by using agarose gel electrophoresis. Experimental Precautions: 1. Avoid nitrocellulose filters due to non-specific adsorption onto the membrane. 2. If using sterilized AAA14838 in concentrations higher than 0.05%, prepare a 2% solution in buffers containing 5% glucose. Filter the suspension and then dilute with an appropriate buffer.
Essential Enzyme	beta-1,3-glucan laminaripentaohydrolase
beta-1,3-glucanase	1.0x10 ⁷ units/g
Protease	1.7x10 ⁴ units/g
Mannanase	6.0x10 ⁴ units/g
RNase/DNase	Trace levels reported
Optimum pH	7.5@35°C, For lysis of viable yeast cells 6.5@45°C, For hydrolysis of yeast glucan
Activity	102u/mg
Stable pH	5-10
Heat Stability	Lytic activity lost on incubation at 60°C for 5 min.
Activators	SH compounds - 2-mercaptoethanol, cysteine or dithiothreitol
Unit Definition	One unit of lytic activity is defined as that amount which indicates 30% decrease in absorbance at 800nm (A800) of the reaction mixture under the conditions indicated in the protocol.

Activators	SH compounds - 2-mercaptoethanol, cysteine or dithiothreitol
Preparation and Storage	Stable for 1 year at 4°C. About 90% of the lytic activity is lost when stored at 30°C for 3 months.

IMAGES



Application Data
Source:Arthrobacter luteus



Application Data
The extracellular domain is required for Sln1 kinase activation by wall perturbations. A, representative field showing localization of SLN1-GFP (pSS1881) or sln1ΔECD-GFP (pSS1904). BF, bright field. B, Western analysis showing reduced levels of sln1ΔECD compared with full-length SLN1. SLN1, JF2007 (sln1ΔDelta;) carrying full-length SLN1-myc (pCLM994); sln1ΔDelta;ECD, JF2007 carrying sln1ΔDelta;ECD-myc (pCLM1774). C, comparison of Hog1 phosphorylation kinetics in SLN1 (JF2008 (sln1ΔDelta; sho1ΔDelta;) carrying full-length (pCLM994)) and sln1ΔDelta;ECD (JF2008 (sln1ΔDelta; sho1ΔDelta;) carrying sln1ΔDelta;ECD (pCLM1774)) strains following addition of 0.4 M NaCl. D, Northern (RNA) hybridization analysis of RNA prepared from wild type cultures from the sln1ΔDelta; strain, JF2007, or sln1ΔDelta; ccw12ΔDelta; strain, JF2368, transformed with the SLN1 expression plasmids, pCLM994 (SLN1) or pCLM1774 (sln1ΔDelta;ECD), and treated with 1 unit/ml zymolyase (+) where indicated. NCA3 expression was normalized to expression of the SLN1-SKN7-independent CDC33 gene. The extent of induction by zymolyase is shown relative to the untreated SLN1 or sln1ΔDelta;ECD strains.

ADDITIONAL INFORMATION

Product Categories/Family for Zymolyase 100T enzyme	Molecular Biology; MB-Enzymes
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/enzyme/zymolyase-100t/14838>