

Zymolyase 100T Enzyme

Zymolyase 100T (Lyticase, Yeast Lytic Enzyme)

CATALOG # AAA14838	HOST Arthrobacter luteus
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PRODUCT SYNONYMS

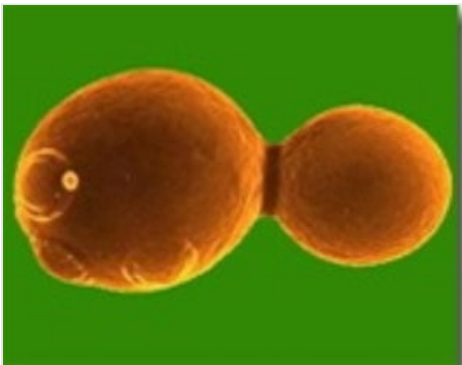
Zymolyase 100T; Zymolyase 100T (Lyticase; Yeast Lytic Enzyme); Zymolyase 100T enzyme

PRODUCT SPECIFICATIONS

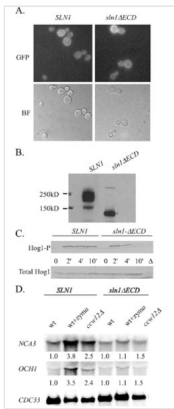
Host	Arthrobacter luteus
Purity/Purification	Molecular Biology Grade
Form/Format	Lyophilized powder; 0.06M Phosphate Buffer, pH 7.5
Application Notes	RNase Activity Assay: Trace RNase activity was detected. Method: AAA14838 was suspended in 50mM Tris-HCl buffer, pH 7.5. 10ul of AAA14838 was mixed with 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 (sln1Δ) carrying full-length SLN1-myc (pCLM994); sln1ΔECD, JF2007 carrying sln1ΔECD-myc (pCLM1774). C, comparison of Hog1 phosphorylation kinetics in SLN1 (JF2008 (sln1Δ sho1Δ) carrying full-length (pCLM994)) and sln1ΔECD (JF2008 (sln1Δ sho1Δ) carrying sln1ΔECD (pCLM1774)) strains following addition of 0.4 M NaCl. D, Northern (RNA) hybridization analysis of RNA prepared from wild type cultures from the sln1Δ strain, JF2007, or sln1Δ ccw12Δ strain, JF2368, transformed with the SLN1 expression plasmids, pCLM994 (SLN1) or pCLM1774 (sln1ΔECD), 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 sln1ΔECD 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://stage.aaabiotech.com/arthrobacter-luteus-enzyme/zymolyase-100t/14838>