

CAZyme Licheninase 1 Technical Specifications

10 mg/ml
Cat. No.: 30652-1
Lot No.

Store at 4°C.

For *In Vitro* Research Use Only.
Not for Drug or Diagnostic use. Not for use in humans or animals.



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Product Description	Licheninase 1, mesophilic, recombinant expressed in <i>E. coli</i> . MW = 35.0 kDa
Purity	≥ 90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	Licheninase 1 has a pH optimum between pH 7 and pH 8 and a temperature optimum of 45°C.
Specific Activity	538 units/mg.
Activity Determination	One Licheninase unit will produce 1 micromole of reducing sugar per minute at 37°C from a 1% solution of Lichenan (Megazyme, P-LICHN) in 50 mM sodium acetate at pH 5.8. Assay method available upon request. Not all possible enzymatic activities of this protein have been evaluated.
Protein Concentration	10 mg/ml total protein as measured using the Pierce BCA™ protein assay with BSA as standard.
Stability	Store at 4°C. If properly stored at 4°C, this product is guaranteed for 6 months from date of purchase.
Storage Buffer	50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 25% glycerol, 0.1% Triton X-100.

Length:321 aa
Theoretical pI: 5.9
Theoretical MW: 35.0 kDa
PFAM Structure: GH16
Activity: 1,3 1,4 endo β -glucanase
Typical Specific Activity: 500-800 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme Licheninase 1.

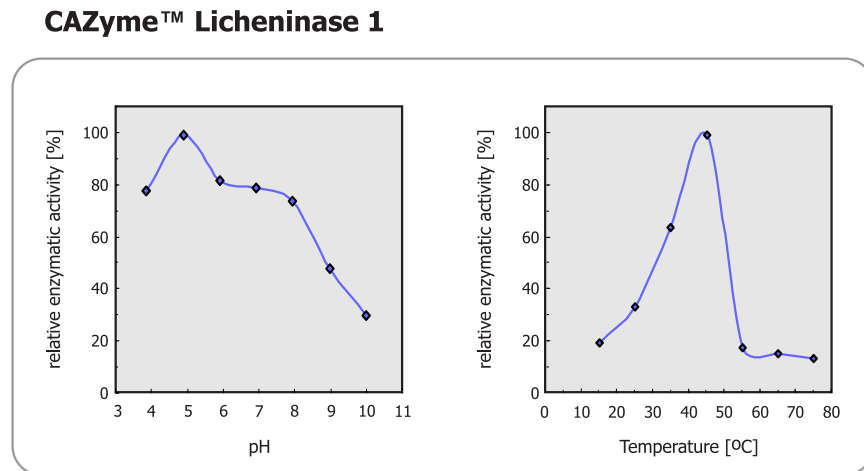


Figure 2. Temperature and pH tolerance of CAZyme Licheninase 1. Assay conditions available upon request

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