

CAZyme™ Xylosidase 1 Technical Specifications



Catalog No. 31511-1 2 mg (0.1 ml)
Lot No.

Store at 4°C. Do not re-freeze.

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	CAZyme Xylosidase 1, thermostable, recombinant expressed in <i>E. coli</i> . 20 mg/ml. MW = 81 kDa
Purity	≥90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	CAZyme Xylosidase 1 is active between pH 6.0 and 8.0 at 70°C.
Specific Activity	16 units/mg.
Activity Determination	One xylosidase unit will produce 1 micromole of o-nitrophenol per minute at 70°C from a 1mM solution of o-nitrophenyl-β-xyloside in 50 mM sodium acetate, pH 5.8. Assay method available upon request.
Endoglucanase Activities	CAZyme Xylosidase 1 does not possess <i>endo</i> -xylanase, arabinoxylanase or β-glucanase activities when assayed using insoluble AZCL-linked substrates. Assay method available upon request.
Exoglucanase Activities	CAZyme Xylosidase 1 releases reducing sugars from birchwood xylan (Sigma, X-0502). Xylosidase 1 catalyzes the hydrolysis of 4-methylumbelliferyl-β-D-cellobioside and 4-methylumbelliferyl-β-D-glucopyranoside. Assay methods available upon request.
Protein Concentration	20 mg/ml total protein as measured using the Bradford 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.

Length: 711aa
Theoretical pI: 5.05
Theoretical MW: 80,775 Da
PFAM Structure: GH43
Activity: β -xylosidase
Typical Specific Activity: 15-50 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme Xylosidase 1.

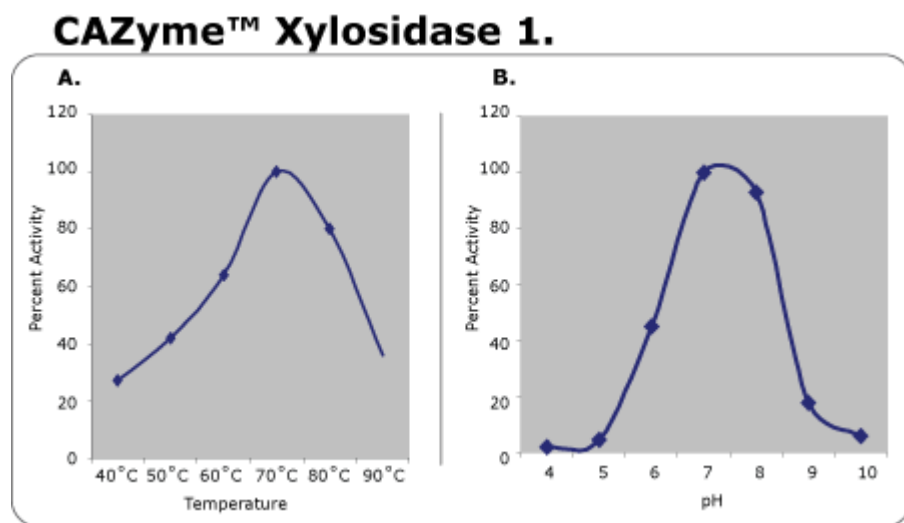


Figure 2. Temperature and pH tolerance of CAZyme of Xylosidase 1. Assay conditions available upon request.

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