

CAZyme™ Xylanase 1

Technical Specifications



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Catalog No. 31531-1	2 mg (0.1 ml)
Lot No.	
Store at 4°C. Do not re-freeze.	
For <i>In Vitro</i> Research Use Only.	
Not for Drug or Diagnostic use. Not for use in humans or animals.	

Product Description	CAZyme™ Xylanase 1, thermostable, recombinant expressed in <i>E. coli</i> . 20 mg/ml MW = 47 kDa
Purity	≥ 90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	Xylanase 1 is active between pH 6.0 and 8.0 at 70°C.
Specific Activity	40 units/mg.
Activity Determination	One xylanase unit will produce 1 micromole of reducing sugar per minute at 70°C from a 2% solution of birchwood xylan (Sigma, X-0502) in 50 mM sodium acetate, pH 5.8 . Assay method available upon request.
Endoglucanase Activities	Xylanase 1 possesses <i>endo</i> -xylanase, arabinoxylanase and β-glucanase activities. Assay methods available upon request.
Exoglucanase Activities	Xylanase 1 possesses β-xylosidase and β-glucosidase activities. 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: 407aa
Theoretical pI: 5.83
Theoretical MW: 47,398 Da
PFAM Structure: GH10
Activity: endo-xylanase
Typical Specific Activity: 25-75 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme Xylanase 1.

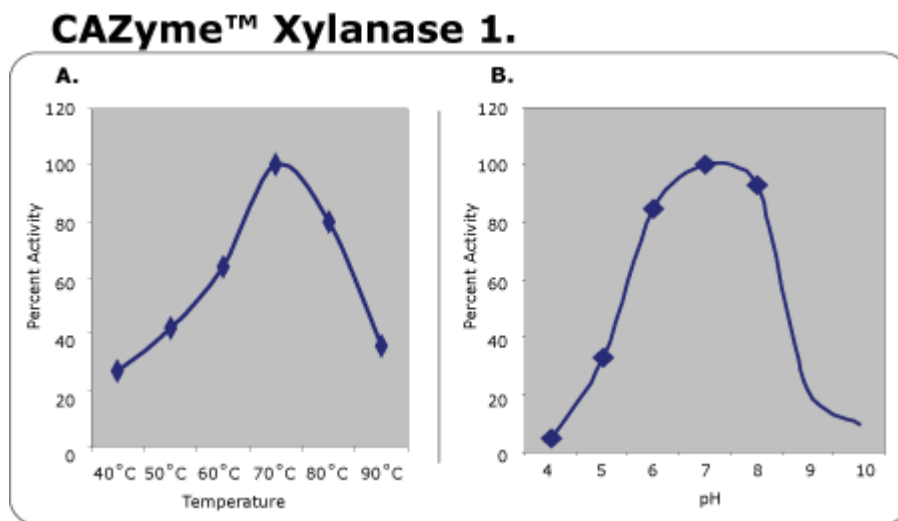


Figure 2. Temperature and pH tolerance of CAZyme Xylanase 1. Assay conditions available upon request.

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