

CAZyme™ Xylanase 2

Technical Specifications



Catalog No. 31532-1 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™ Xylanase 2, thermostable, recombinant expressed in <i>E. coli</i> . 20 mg/ml MW = 36 kDa
Purity	≥ 90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	Xylanase 2 is active between pH 6.0 and 8.0 at 70°C.
Specific Activity	49 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 2 possesses <i>endo</i> -xylanase, arabinoxylanase and β-glucanase activities. Assay methods available upon request.
Exoglucanase Activities	Xylanase 2 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.

Note: This enzyme is shipped frozen but should be stored at 4°C. Additional freeze/thaw cycles will result in decreased activity.

Warranty

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Length: 336aa
Theoretical pI: 5.97
Theoretical MW: 39,269 Da
PFAM Structure: GH10
Activity: endo-xylanase
Typical Specific Activity: 25-85 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme Xylanase 2.

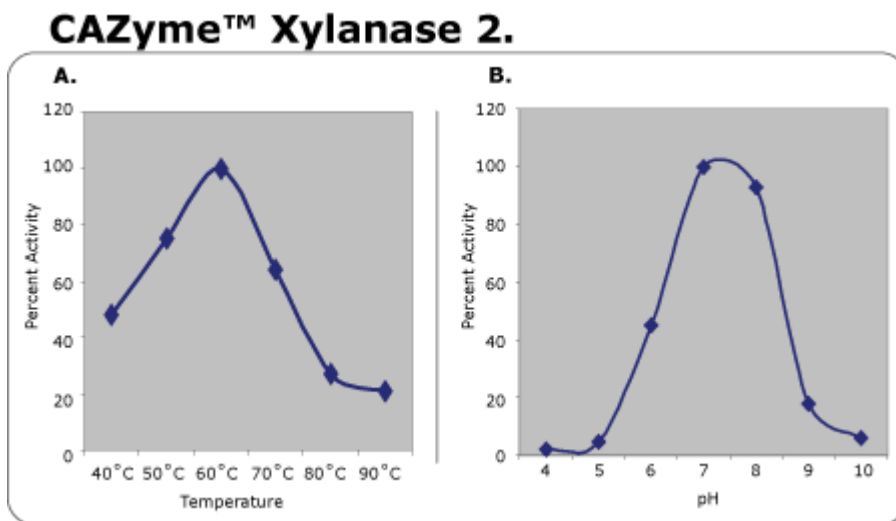


Figure 2. Temperature and pH tolerance of CAZyme Xylanase 2. Assay conditions available upon request.