

CAZyme™ β -Glucanase 2 Technical Specifications



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Catalog No. 31592-1	2 mg (0.1 ml)
Lot No.	
Store at 4°C. Do not 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™ β -Glucanase 2, thermostable, recombinant expressed in <i>E. coli</i> . 20 mg/ml. MW = 38 kDa
Purity	≥ 90% pure on Coomassie stained SDS-PAGE.
Specific Activity	2.3 units/mg.
Activity Determination	One β -glucanase unit will produce 1 micromole of reducing sugar per minute at 70°C from a 1% solution of β -glucan (Megazyme, P-BGBL) in 50 mM sodium acetate at pH 5.8. Assay method 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-glucanase
Typical Specific Activity: 1-8 u/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme β -Glucanase 2.

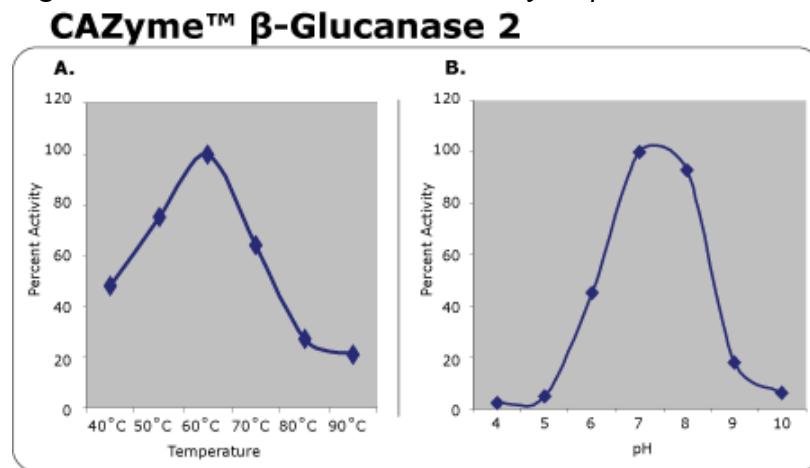


Figure 2. Temperature and pH tolerance of CAZyme β -Glucanase 2. Assay conditions available upon request.