

CAZyme™ α -Galactosidase 1

Technical Specifications



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Catalog No. 30640-1 0.2 mg (0.2 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.

Product Description	CAZyme α -Galactosidase from <i>Bacillus spp.</i> , recombinant expressed in <i>E. coli</i> cells, MW = 84.1 kDa.
Purity	$\geq 90\%$ pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	α -Galactosidase is active at pH 7 and 70°C.
Specific Activity	101 U/mg at 70°C on 4-Nitrophenyl- α -D-galactoside
Activity Determination	One α -Galactosidase unit will produce will produce 1 micromole of 4-nitrophenol per minute at 70°C from a 1mM solution of 4-nitrophenyl- α -D-galactoside in 50 mM sodium acetate, pH 5.8. Assay method available upon request.
Protein Concentration	1.0 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.

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: 735 aa
Theoretical pI: 6.45
Theoretical MW: 84,000 Da
PFAM Structure: GH 36
Activity: α -galactosidase
Typical Specific Activity: 101 u/mg
Leader: (-)
Dockerin: (-)
Histag: (+)
Esterase: (-)

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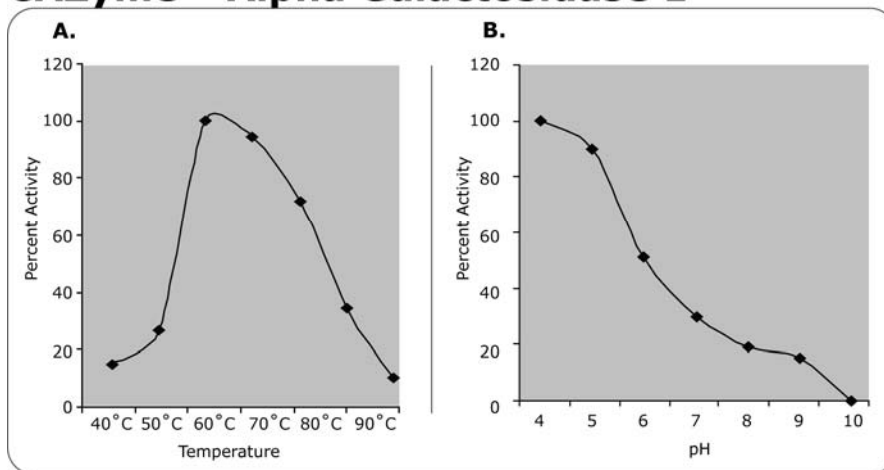


Figure 1. : Temperature and pH tolerance of CAZyme α -Galactosidase 1. Assay conditions available upon request.