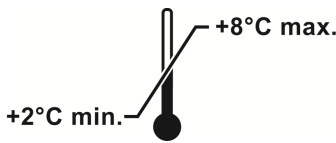


CAZyme™ Ara 1



C5•6 Technologies, Inc.

Technical Specifications

Catalog No. 30501-1	2 mg (0.2 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 Ara 1, thermostable, recombinant arabinofuranosidase expressed in <i>E.coli</i> . 10 mg/ml. MW = 57.2 kDa.
Purity	≥90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	α-L-Arabinofuranosidase 1 is active between pH 5.0 and 7.0 at 70°C. Optimum pH is 6.0 and optimum temperature is 70°C.
Specific Activity	340 units/mg.
Activity Determination	One α-L-arabinofuranosidase unit will produce 1 micromole of p-nitrophenol per minute at 70°C from a 1mM solution of 4-nitrophenyl-α-L-arabinofuranoside in 50 mM sodium acetate, pH 5.8. Assay method available upon request.
Endoglucanase Activities	α-L-Arabinofuranosidase 1 does not possess <i>endo</i> -xylanase, arabinoxylanase or β-glucanase activities when assayed using insoluble AZCL-linked substrates.
Exoglucanase Activities	α-L-Arabinofuranosidase 1 catalyzes the hydrolysis of 4-methylumbelliferyl-β-D-cellobioside and 4-methylumbelliferyl-β-D-xylopyranoside. Assay methods available upon request.
Protein Concentration	10 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.

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Features of recombinant CAZyme Ara 1.

Length: 502aa

Theoretical pI: 5.83

Theoretical MW: 57,171 Da

PFAM Structure: Alpha-L-AF_C

Activity: α -arabinofuranosidase

Typical Specific Activity: 240 - 500 u/mg

Leader: (-)

Dockerin: (-)

Histag: (-)

CAZyme™ Ara 1

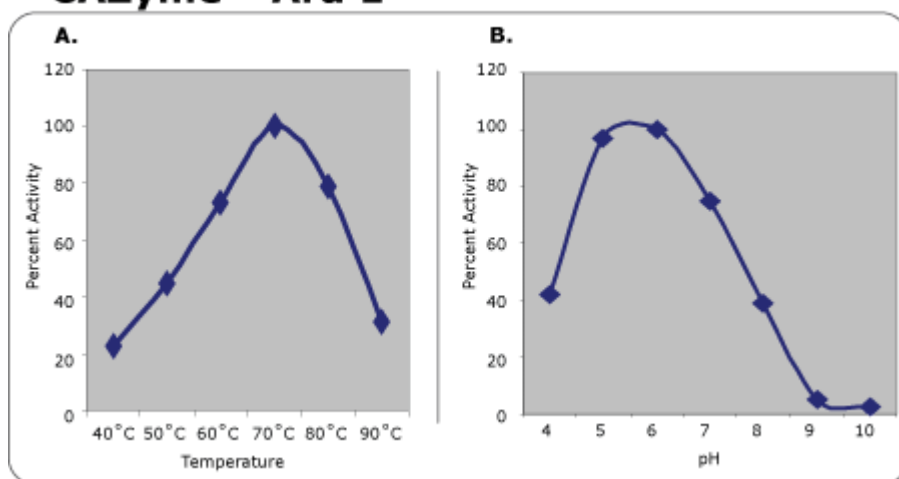


Figure 2. Temperature and pH tolerance of CAZyme Ara 1. Assay conditions available upon request.