

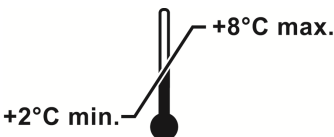
CAZyme™ DturXynA



C5•6 Technologies, Inc.

Technical Specifications

Catalog No. 30536-1	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 DturXynA, thermostable, recombinant expressed in <i>E. coli</i> cells, MW = 38 kDa.
Purity	≥ 90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	CAZyme DturXynA is active between pH 5.0 and 7.0 at 70°C.
Specific Activity	21 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.
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.

C5•6 Technologies 2905 Parmenter St, Middleton, WI 53562 USA
(608) 836.3587
info@c56technologies.com www.c56technologies.com

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MEIPSLKEVYKDYFPIGAAVSHLNIYTYEDLLKKHFNSLTPENQMKWEVIHPKPYVYDFG
PADEIVDFAMKNGMKVRGHTLVVHNQTPGWVYAGTKDEILARLKEHIYEVVGHYKGVYA
WDVVNEALSNDPNEFLRKAPWYDICGEEVIEKAFIWANEADPNAKLFYNDYNLEDPIKRE
KAYQLVKRLKEKGIPIHGVGIQGHWTLAWPTPKMLEDSIKRFSELGVEVQITEFDISIYY
DRNENNNFKVPPDDRIEKQAOLYKQAFEILRKYRGVVTGVTFWGVADDYTWLYFWPVRGR
EDYPLLFDKNHNPKKAFWEIVKFHHHHHH
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Length: 329

Theoretical pI: 6.25

Theoretical MW: 39,000 Da

PFAM Structure: GH 10

Activity: xylanase

Typical Specific Activity: 21 u/mg

Leader: (-)

Dockerin: (-)

Histag: (+)

Esterase: (-)

Figure 1. Features and sequence of recombinant CAZyme DturXynA.

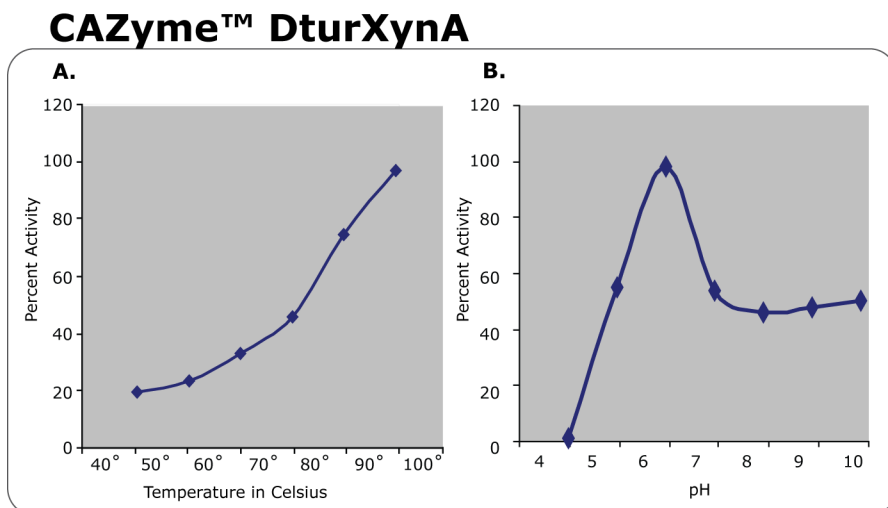


Figure 2. Temperature and pH tolerance of CAZyme DturXynA. Assay conditions available upon request.

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