

CAZyme Curdlanase 2 Technical Specifications

10 mg/ml
Cat. No.: 30658-1
Lot No.

Store at 4°C.

For *In Vitro* Research Use Only.

Not for Drug or Diagnostic use. Not for use in humans or animals.



Lucigen Corporation
2120 W. Greenview Dr.
Middleton, WI 53562 USA
Tel. 608-831-9011
Fax. 608-831-9012
Web www.lucigen.com
Email lucigen@lucigen.com

Product Description	Curdlanase 2, thermophilic, recombinant expressed in <i>E. coli</i> . MW = 73.5 kDa
Purity	>90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	Curdlanase 2 has a pH optimum between pH 5 and pH 6 and a temperature optimum of 55°C.
Specific Activity	18 units/mg.
Activity Determination	One curdlanase unit will produce 1 micromole of reducing sugar per minute at 37°C from a 1% solution of curdlan (Megazyme, P-CURDL) in 50 mM potassium phosphate, pH 7.1. Assay method available upon request. Not all possible enzymatic activities of this protein have been evaluated.
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, 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.

Length:658 aa
Theoretical pI: 4.0
Theoretical MW: 73.5 kDa
PFAM Structure: GH16 CBM 49
Activity: 1,3 β -glucanase
Typical Specific Activity: 15-25 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme Curdlanase 2.

CAZyme™ Curdlanase 2

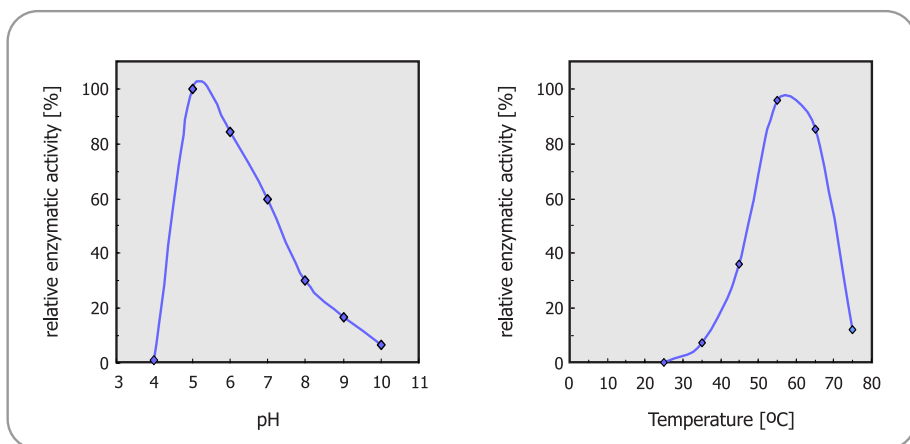


Figure 2. Temperature and pH tolerance of CAZyme Curdlanase 2. Assay conditions available upon request

Warranty

Lucigen warrants that its products will conform to the standards stated in its product specification sheets in effect at the time of shipment. Lucigen will replace, free of charge, any product that does not conform to the specifications. This warranty limits Lucigen's liability only to the replacement of the product. THIS WARRANTY IS EXCLUSIVE, AND LUCIGEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The stated express warranties, and the remedy provided for breach thereof, are in lieu of all other liability or obligations of Lucigen for any damages whatsoever arising out of or in connection with the delivery, use, performance, or the inability to use any of its products. IN NO EVENT SHALL LUCIGEN BE LIABLE UNDER ANY LEGAL THEORY (INCLUDING BUT NOT LIMITED TO CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT, OR WARRANTY OF ANY KIND) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES (INCLUDING BUT NOT LIMITED TO LOST PROFITS). Without limiting the effect of the preceding sentence, Lucigen's maximum liability, if any, shall not exceed the purchase price paid by buyer for the product.