

Glucoamylase Enzyme

Glucoamylase (Rhizopus sp.)

CATALOG #
AAA78950

PRODUCT SYNONYMS

Glucoamylase; Glucoamylase (Rhizopus sp.); EC 3.2.1.3; Glucoamylase enzyme

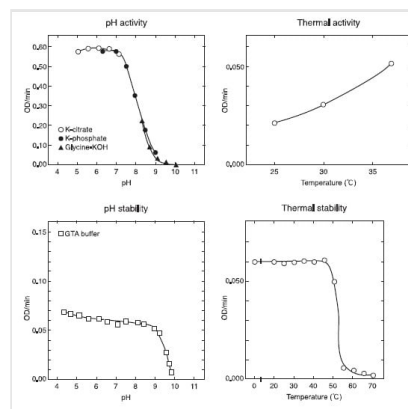
PRODUCT SPECIFICATIONS

Form/Format	Lyophilized powder
Sequence Length	604
Reaction Equation	Starch + n H ₂ O = nBeta-Glucose
Specific Activity	U/mg protein: >20 Units
Preparation and Storage	Lyophilized below -20 degree C.

IMAGES

I Spectrophotometric Method	
Wavelength : 340 nm, Light path length : 1 cm	
Temperature : 37 °C	
Pipette the following reagents into a cuvette	
α -Glycerophosphate buffer (50 mmol/L, pH 6.0) containing NAD ⁺ (1.3 mmol/L)	
3.00 mL	ATP (1.1 mmol/L)
	Maltopentaose (3.3 mmol/L)
	MgCl ₂ (0.18 mmol/L)
0.01 mL	HK (1,200 U/mL)
0.01 mL	G6PDH (L) (1,200 U/mL)
0.02 mL	Glucoamylase (approx. 2 U/mL)
II Calculation	
$\frac{\Delta A/min \cdot V \cdot D}{6.3 \cdot d \cdot v} = U/mL$	
$\Delta A/min$ = The change in absorbance at 340 nm/minute	
V = Total volume of reaction mixture (3.04 mL)	
D = Enzyme dilution factor	
6.3 = mmol/L extinction coefficient of NADH	
(L · mmol ⁻¹ · cm ⁻¹)	
d = Light path length (1 cm)	
v = Volume of enzyme sample (0.02 mL)	

Assay Procedure



Application Data

ADDITIONAL INFORMATION

Product Categories/Family for Glucoamylase enzyme	Enzymes
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NCBI AND UNIPROT INFORMATION

NCBI GI #	218035
NCBI Official Full Name	glucoamylase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.