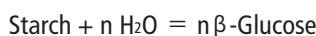


# Glucoamylase

**Glucoamylase EC 3.2.1.3**

*from Rhizopus sp.*

## Reaction Equation



## Specification

### Specific Activity

U/mg protein > 20 units

## Assay Procedure

### 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<sup>+</sup> (1.3 mmol/L)

3.00 mL ATP (1.1 mmol/L)  
Maltohexaose (3.3 mmol/L)  
MgCl<sub>2</sub> (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

$$\frac{\Delta A/\text{min} \cdot V \cdot D}{6.3 \cdot d \cdot v} = \text{U/mL}$$

Δ A/min = The change in absorbance at 340 nm/minute

V = Total volume of reaction mixture (3.04 mL)

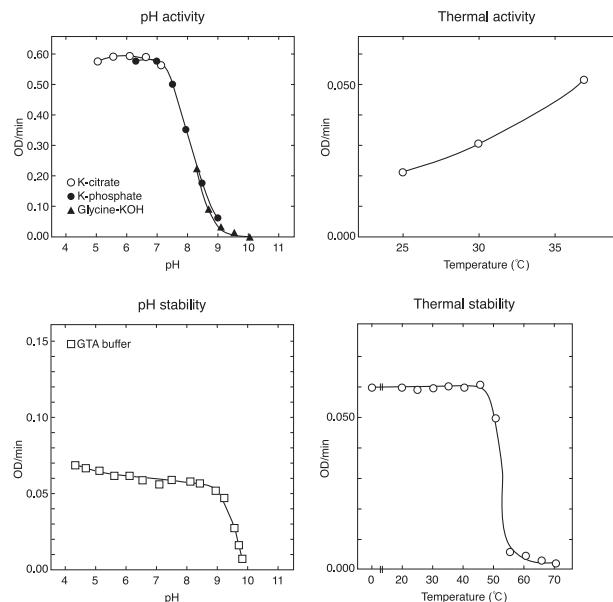
D = Enzyme dilution factor

6.3 = mmol/L extinction coefficient of NADH  
(L·mmol<sup>-1</sup>·cm<sup>-1</sup>)

d = Light path length (1 cm)

v = Volume of enzyme sample (0.02 mL)

## Reference Data



## Preparation and Storage

Lyophilized powder

Store below -20°C

## Cat. No./Package

Cat. No. Package

46817903 Bulk

For in vitro diagnostic or research use only



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