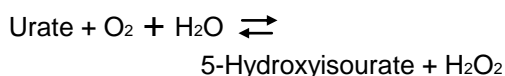


# rUricase

recombinant Uricase from yeast

Urate : oxygen oxidoreductase (EC 1.7.3.3)

## Reaction Equation



## Specification

Specific activity  
IU/mg protein > 6 units

## Preparation and Storage

Lyophilized powder  
Store below -20°C

## Properties

pH stability : pH 7.6-10.0 (25°C, 1 week)  
Thermal stability : ≤55°C (pH 8.5, 30 min)  
Optimum pH : 8.5  
Optimum temp. : 55°C  
Km value :  $3.8 \times 10^{-5}$  mol/L (Urate)  
Molecular weight : 34 kDa (SDS-PAGE)

## Assay Procedure

### I. Spectrophotometric Method

Wavelength: 293 nm, Light path length: 1 cm  
Final volume: 3.02 mL, Temperature: 25°C

Pipette the following reagents into a cuvette

3.00 mL Borate buffer (50 mmol/L, pH 8.5)  
containing Urate (0.125 mmol/L)  
0.02 mL rUricase (approx. 1 IU/mL)

### II. Calculation

$$\text{IU/mL} = \frac{\Delta A/\text{min} \cdot V \cdot D}{12.6 \cdot d \cdot v}$$

$\Delta A/\text{min}$  : The change in absorbance at 293 nm/minute  
(reverse the blank activation of rUricase(-))

V : Total volume of reaction mixture (3.02 mL)

D : Enzyme dilution factor

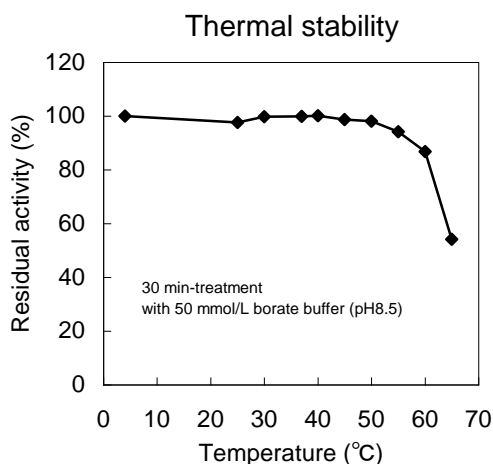
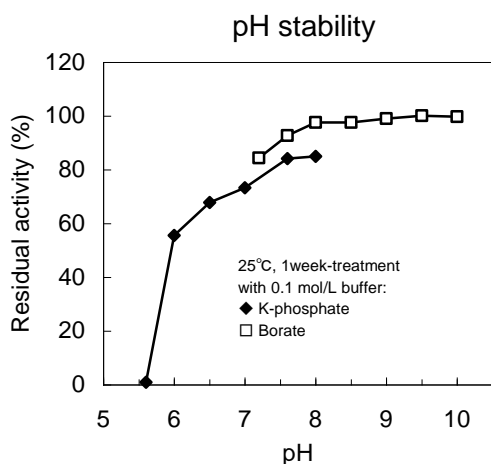
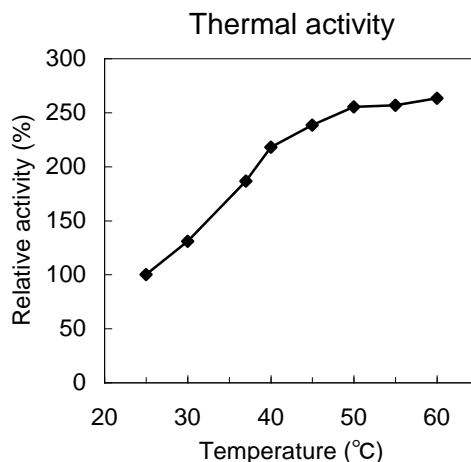
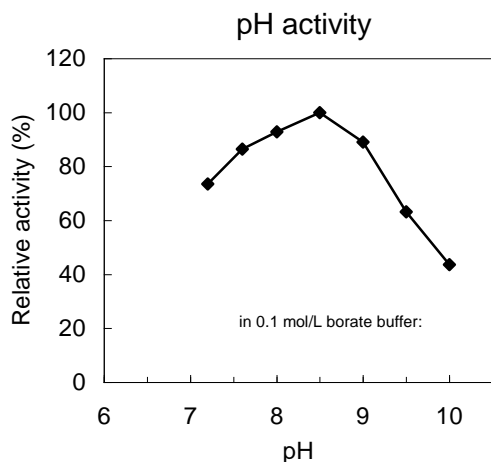
12.6 : mmol/L extinction coefficient of Urate  
( $L \cdot \text{mmol}^{-1} \cdot \text{cm}^{-1}$ )

d : Light path length (1 cm)

v : Volume of enzyme sample (0.02 mL)



Reference Data



rUricase

Product name	OYC No.	Package	Price
rUricase	46767900	Bulk	Please inquiry

The product is intended for in vitro diagnostic or research use only.



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Please contact the one that best suits your need.

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