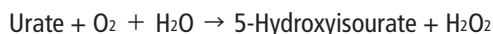


rUricase(Y)

recombinant Uricase EC 1.7.3.3

from Yeast

Reaction Equation



Specification

Specific Activity

U/mg protein > 6 units

Properties

pH stability : pH 7.6 - 10.0 (25°C, 1 week)

Thermal stability : $\leq 55^\circ\text{C}$ (pH 8.5, 30 min)

Optimum pH : 8.5

Optimum temp. : 55°C

Km value : 3.8×10^{-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)
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0.02 mL	rUricase (approx. 1 U/mL)
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II Calculation

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

$\Delta A/\text{min}$ = The change in absorbance at 293 nm/minute

V = Total volume of reaction mixture (3.02 mL)

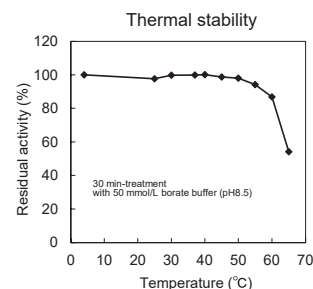
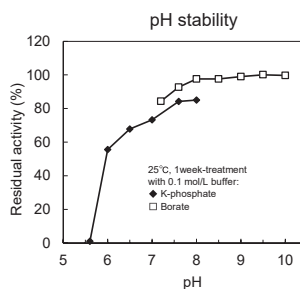
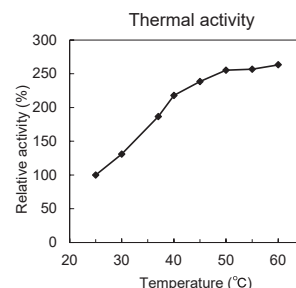
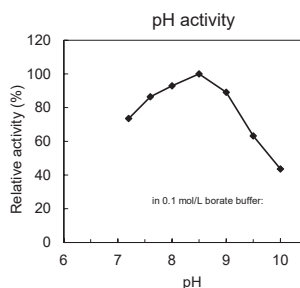
D = Enzyme dilution factor

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

d = Light path length (1 cm)

v = Volume of enzyme sample (0.02 mL)

Reference Data



Preparation and Storage

Lyophilized powder

Store below -20°C

Cat. No./Package

Cat. No.	Package
46769003	100 units
46767900	Bulk

For in vitro diagnostic or research use only



ORIENTAL YEAST CO.,LTD.