

# Uricase

## Urate oxidase

Urate : oxygen oxidoreductase (EC 1.7.3.3)

### from Yeast

#### Reaction Equation



#### Specification

##### Specific Activity

IU/mg protein

##### Specifications

>6 units

#### Assay Procedure

##### I. Spectrophotometric Method

Wavelength ; 293 nm, Light path length ; 1 cm,  
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 Uricase (about 1 IU/mL)

##### II. Calculation

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

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

V = Total volume of reaction mixture (3.02 mL)

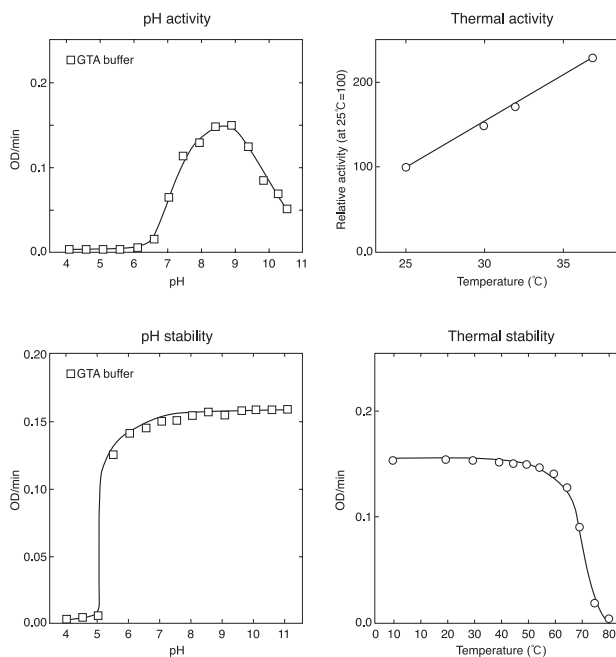
D = Enzyme dilution factor

12.6 = mM extinction coefficient of Uric acid  
(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

Product Code : Uricase-03

Lyophilized powder (contains no ammonium sulfate)

.....below -20°C

IU per 1 mg powder is approximately 4 units.

#### OYC No./Package

OYC No.	Package
46685003	25 units
46686003	100 units
46687003	500 units
46688903	Bulk

(Research reagent use only, not for medical use.)



ORIENTAL YEAST CO.,LTD.