

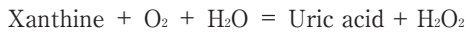
X O D

Xanthine oxidase

Xanthine : oxygen oxidoreductase (1.1.3.22)

from Butter milk

Reaction Equation



Specification

Specific Activity

IU/mg protein

Specifications
>0.25 units

Assay Procedure

I . Spectrophotometric Method

Wavelength ; 290 nm, Light path length ; 1 cm,
Temperature ; 25°C

Pipette the following reagents into a cuvette

3.00 mL Sodium phosphate buffer (50 mmol/L, pH 7.5)
containing Xanthine sodium salt
(0.1 mmol/L)

0.10 mL XOD (about 0.06 IU/mL)

II . Calculation

$$\frac{\Delta A/\text{min} \cdot V \cdot D}{12.3 \cdot d \cdot v} = \text{IU/mL}$$

$\Delta A/\text{min}$ = The change in absorbance at 290 nm/minute

V = Total volume of reaction mixture (3.10 mL)

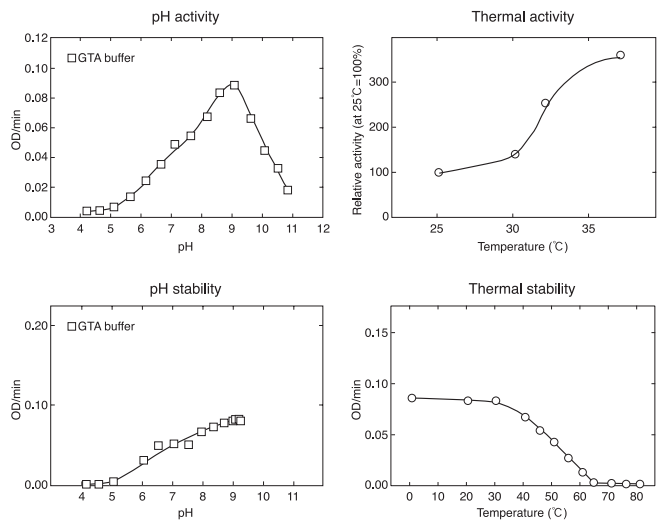
D = Enzyme dilution factor

12.3 = mM extinction coefficient of Uric acid
(L · mmol⁻¹ · cm⁻¹)

d = Light path length (1 cm)

v = Volume of enzyme sample (0.10 mL)

Reference Data



Preparation and storage

Product Code : XOD-93

Lyophilized powder (contains no ammonium sulfate)

.....below -20°C

IU per 1 mg powder is approximately 0.3 units.

OYC No./Package

OYC No.	Package
46264003	60 units
46265003	300 units
46263903	Bulk

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