

Xanthine Oxidase from Microorganism

Product Code: 193677

EC no: 1.1.3.22

SKU: 193677

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS:

EC 1.1.3.22

Product name: Xanthine: oxygen oxidoreductase

Appearance: Reddish brown amorphous powder, lyophilized

Activity: Grade II, 10 U/mg-solid or more

Contaminants:

- Catalase: $\leq 5.0\%$, Adenosine deaminase: $\leq 1.0 \times 10^{-3}\%$
- Uricase $\leq 1.0 \times 10^{-3}\%$, Phosphatase $\leq 1.0 \times 10^{-3}\%$,
- Purine-nucleoside phosphorylase $\leq 5.0 \times 10^{-3}\%$

Stabilizers: Sodium glutamate, BSA

Stability: Stable at - 20 °C for at least 12 months

Molecular weight: approx. 160,000

Isoelectric point: 4.0 + 0.1

Michaelis constant: $4.5 \times 10^{-5} \text{M}$ (Xanthine), $7.6 \times 10^{-5} \text{M}$ (Hypoxanthine)

Inhibitors: Reducing agents, Hg^{2+} , Ag^{+} , MIA

Optimum pH: 7.5 - 8.0

Optimum temperature: 65 °C

pH Stability: pH 6.5 - 9.0 (25°C, 15hr)

Thermal stability: below 55°C (pH 8.0, 30min)