

Pyruvate Oxidase from Microorganism

Product Code: 193669

EC no: 1.2.3.3

SKU: 193669

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS:

EC 1.2.3.3

Product name: Pyruvate: oxygen 2-oxidoreductase (phosphorylating)

Appearance: Yellowish amorphous powder, lyophilized

Activity: Grade III, 1.5 U/mg-solid or more

Contaminants: ATPase: $\leq 5.0 \times 10^{-2} \%$, GOT & GPT: $\leq 5.0 \times 10^{-2} \%$

Stability: Stable at 2 – 8 °C for at least 12 months

Stabilizers: Sugars, FAD

Molecular weight: approx. 260,000

Isoelectric point 4.3

Michaelis constant: $3.4 \times 10^{-4} \text{M}$ (Pyruvate)

Inhibitors: Fe^{2+} , Zn^{2+} , Cu^{2+} , Ag^{+} , Hg^{2+}

Optimum pH: 5.7

Optimum temperature: 65°C

pH Stability: pH 5.7 - 6.5 (25°C , 20hr)

Thermal stability: Below 45°C (pH 6.0, 15min)