

## Pyruvate oxidase, Enzyme Activity

Catalog	Unit
TBP0041-100U	100U
TBP0041-500U	500U

### Preparation and Specification

Appearance: Yellowish amorphous powder, lyophilized

Activity: Gradelll 1.5U/mg-solid or more

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

Stabilizers: Sugars, FAD

### Properties

Stability: Stable at  $-20^{\circ}\text{C}$  for at least One year

Molecular weight: approx. 260,000

Isoelectric point: 4.3

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

Inhibitors:  $\text{Fe}^{++}, \text{Zn}^{++}, \text{Cu}^{++}, \text{Ag}^{+}, \text{Hg}^{++}$

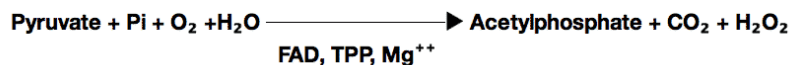
Optimum pH: 5.7

Optimum temperature:  $65^{\circ}\text{C}$

pH Stability: pH 5.7-6.5 ( $25^{\circ}\text{C}$ , 20hr)

Thermal stability: below  $45^{\circ}\text{C}$  (pH 6.0, 15min)

### Pyruvate: oxygen 2-oxidoreductase (phosphorylating) (EC 1.2.3.3)



### Applications

This enzyme is useful for enzymatic determination of pyruvate, GOT, GPT in clinical analysis.

For research use only