

Pyruvate oxidase, Enzyme Activity

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

Preparation and Specification

Appearance: Yellowish liquid

Activity: 200U/mL

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

Stabilizers: Sugars, FAD

Properties

Stability: Stable at -20°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: $\text{Fe}^{++}, \text{Zn}^{++}, \text{Cu}^{++}, \text{Ag}^{+}, \text{Hg}^{++}$

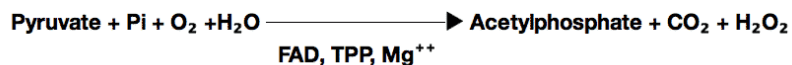
Optimum pH: 5.7

Optimum temperature: 65°C

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

Thermal stability: below 45°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