Creative Enzymes®

Native Aerococcuss viridans Pyruvate oxidase

Cat. No. DIA-169

Lot. No. (See product label)

Introduction

Description	In enzymology, a pyruvate oxidase (EC 1.2.3.3) is an enzyme that catalyzes the chemical reaction: pyruvate + phosphate + O2 ↔ acetyl phosphate + CO2 + H2O2. The 3 substrates of this enzyme are pyruvate, phosphate, and O2, whereas its 3 products are acetyl phosphate, CO2, and H2O2.
Applications	Useful for enzymatic determination of AST and ALT
Synonyms	pyruvate oxidase; EC 1.2.3.3; pyruvate: oxygen 2-oxidoreductase (phosphorylating); pyruvic oxidase; phosphate-dependent pyruvate oxidase

Product Information

Source	Aerococcuss viridans
Appearance	Yellowish powder
Form	Freeze dried powder
EC Number	EC 1.2.3.3
CAS No.	9001-96-1
Activity	> 25 U/mg
Contaminants	Lactate oxidase < 0.002%; Total AST (GOT) < 0.002%; Total ALT (GPT) < 0.006%; Catalase < 0.3%
pH Stability	6.0-7.0 (37°C, 60 mins)
Optimum pH	6.5-7.0
Thermal stability	Stable at 45°C and below (pH 6.4, 10 mins)

Storage and Shipping Information

Storage	Store in tightly closed containers, desiccated, protected from light, at-20°C.