

## Native *Pediococcus* sp. Glycerol-3-phosphate oxidase

Cat. No. DIA-154

Lot. No. (See product label)

### Introduction

**Description** In enzymology, a glycerol-3-phosphate oxidase (EC 1.1.3.21) is an enzyme that catalyzes the chemical reaction: sn-glycerol 3-phosphate + O<sub>2</sub> ⇌ glycerone phosphate + H<sub>2</sub>O<sub>2</sub>. Thus, the two substrates of this enzyme are sn-glycerol 3-phosphate and O<sub>2</sub>, whereas its two products are glycerone phosphate and H<sub>2</sub>O<sub>2</sub>.

**Synonyms** glycerol-3-phosphate oxidase; EC 1.1.3.21; sn-glycerol-3-phosphate: oxygen 2-oxidoreductase; glycerol phosphate oxidase; glycerol-1-phosphate oxidase; glycerol phosphate oxidase; L-alpha-glycerophosphate oxidase; alpha-glycerophosphate oxidase; L-alpha-glycerol-3-phosphate oxidase

### Product Information

**Source** *Pediococcus* sp.

**Appearance** Yellowish powder

**Form** Freeze dried powder

**EC Number** EC 1.1.3.21

**CAS No.** 9046-28-0

**Activity** > 40 U/mg

**pH Stability** 6.5-8.5 (25°C, 20 hrs)

**Optimum pH** 8.0-8.5

**Thermal stability** Stable at 40°C and below (pH 7.0, 15 mins)

### Storage and Shipping Information

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