

**Lactate Oxidase from Microorganism Activity > 80 U/mg solid or more**

**Product Code:** 193333

**EC no:** 1.13.12.4

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**SKU:** 193333

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

**EC 1.13.12.4**

**Product name:** L-Lactate: oxygen oxidoreductase

**Appearance:** Yellowish amorphous powder, lyophilized

**Molecular weight:** approx. 160,000 (gel filtration)

**Activity:** > 80 U/mg solid or more

#### Contaminants:

- Pyruvate oxidase: < 0.001 %
- Uricase: < 0.001 %
- Glucose oxidase: < 0.001 %
- Cholesterol oxidase: < 0.001 %

**Stability:** Stable at - 20 °C for at least 12 months

**Inhibitors:** Fe<sup>+++</sup>, SDS

**Michaelis constant:** L-lactate:  $1 \times 10^{-3}$  M

**Isoelectric point:** 4.3 + 0.2

**Optimum pH:** 7.5

**Optimum temperature:** 35 - 40 °C

**pH Stability:** pH 4.0 - 9.8 (25°C, 16h)

**Thermal stability:** Below 50 °C (pH 7.0, 10 min)