

Lactate oxidase from Microorganism, Recombinant

Cat. No. DIA-208

Lot. No. (See product label)

Introduction

Applications This enzyme is useful for enzymatic determination of L-lactate.

Synonyms Lactate oxidase; EC 1.1.3.2; lactate oxidative decarboxylase; lactic oxygenase; lactate oxygenase; lactic oxidase

Product Information

Source Microorganism

Appearance Yellowish amorphous powder, lyophilized

EC Number EC 1.13.12.4

CAS No. 9028-72-2

Molecular Weight approx. 160 kDa (by gel filtration)

Activity Gradelll 80U/mg-solid or more

Contaminants Pyruvate oxidase < $1.0 \times 10^{-3}\%$ Cholesterol oxidase < $1.0 \times 10^{-3}\%$ Uricase < $1.0 \times 10^{-3}\%$ Glucose oxidase < $1.0 \times 10^{-3}\%$

Isoelectric point 4.3 ± 0.2

pH Stability 4.0-9.8 (25°C, 16hr)

Optimum pH 7.5

Thermal stability below 50°C (pH 7.0, 10min)

Optimum temperature 35-40°C

Michaelis Constant 1.0×10^{-3} M (L-Lactate)

Inhibitors Fe⁺⁺⁺, SDS

Storage and Shipping Information

Stability Stable at -20°C for at least 6 months