Creative Enzymes®

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	GradeⅢ 80U/mg-solid or more
Contaminants	Pyruvate oxidase < 1.0×10^{-3}% Cholesterol oxidase < 1.0×10^{-3}% Uricase < 1.0×10^{-3}% Glucose oxidase < 1.0×10^{-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