

ENZYMES

BY

SORACHIM

Lactate Oxidase from Microorganism

LAX-18C

SPECIFICATIONS

Product name	L-Lactate: oxygen oxidoreductase
EC	1.13.12.4 (ex 1.1.3.2)
Appearance	Yellowish amorphous powder, lyophilized
Activity	> 20 U/mg solid or more
Specific activity	> 55 U/mg protein
Contaminants	Pyruvate oxidase: < 0.001 % Uricase: < 0.001 % Glucose oxidase: < 0.001 % Protein (BCA): 0.3 - 0.7 mg/mg powder
Stability	Stable at - 20 °C for at least 12 months
Michaelis constant	L-lactate : 5×10^{-4} M
Vmax	L-lactate: 2×10^{-1} M
Optimum pH	6.5 - 7.5
pH Stability	6.0 - 9.0
Thermal stability	below 65 °C