

## Native Lactate Oxidase from Microorganism

### Product Information

<b>Cat#</b>	BDE-012
<b>Description</b>	Lactate Oxidase catalyzes the oxidation of lactate and serves as the key enzyme for the precise measurement of lactate levels.
<b>Applications</b>	Used in lactate assay kits; it is widely used for the quantitative analysis of lactate in blood and body fluids.
<b>Enzyme Commission Number</b>	EC 1.1.3.2
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 45 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to catalyze the production of 1 μmol of H <sub>2</sub> O <sub>2</sub> per minute under specified assay conditions.
<b>Molecular Weight</b>	42kDa (SDS-PAGE)
<b>Purity</b>	≥ 90% by SDS-PAGE
<b>Optimum pH</b>	6.0-7.0
<b>Optimum temperature</b>	50°C
<b>pH Stability</b>	6.0-8.5 (25 °C, 16 h)
<b>Thermal Stability</b>	< 50°C (pH 7.0, 30 min)
<b>Km Value</b>	7.5×10 <sup>-4</sup> M (L-Lactate)
<b>Storage</b>	Store at -25°C to -15°C for 12 months to maintain at least 90% activity.