

## Native Glucose Oxidase (GOD) from Microorganism

### Product Information

<b>Cat#</b>	BDE-037
<b>Specification</b>	100 KU, 500 KU, 1000 KU
<b>Description</b>	Glucose Oxidase (GOD) oxidizes glucose to produce hydrogen peroxide and is the most widely used classic enzyme in blood glucose testing.
<b>Applications</b>	Used in blood glucose test kits and biosensors, it is the most widely used enzyme for glucose quantification.
<b>CAS No.</b>	9001-37-0
<b>Enzyme Commission Number</b>	EC 1.1.3.4
<b>Form</b>	Pale yellow amorphous lyophilized powder
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 100 U/mg
<b>Molecular Weight</b>	79 kDa (SDS-PAGE)
<b>Optimum pH</b>	7.0
<b>Optimum temperature</b>	30°C
<b>pH Stability</b>	4.0-9.0 (25°C, 20 h)
<b>Thermal Stability</b>	< 40°C (pH 7.0, 10 min)
<b>Isoelectric Point</b>	4.3
<b>Km Value</b>	3.6×10 <sup>-5</sup> mM
<b>Inhibitors</b>	Ag <sup>+</sup> , Hg <sub>2</sub> <sup>+</sup> , Cu <sub>2</sub> <sup>+</sup> 4-chloromercuribenzoate
<b>Storage</b>	Store at -25°C to -15°C for 12 months to maintain at least 90% activity.