

## **Glucose dehydrogenase (PQQ-dependent) from Microorganism**

**Product Code:** 183403

**EC:** 1.1.5.2

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**SKU:** 183403

**Category:** [Enzymes](#)

### **PRODUCT DESCRIPTION**

### **SPECIFICATIONS**

**EC 1.1.5.2**

Name D-Glucose:(pyrroloquinoline-quinone) 1-oxidoreductase

Appearance Purple amorphous powder lyophilized

Activity Grade III, 500U/mg-solid or more

Contaminants Hexokinase  $\leq 1.0 \times 10^{-3}\%$  Glucose dehydrogenase (NAD-dependent)  $\leq 1.0 \times 10^{-3}\%$

Stabilizers Ca<sup>++</sup>, BSA

Stability Stable at -20°C for at least 12 months

Molecular weight approx. 100,000 (Gel filtration)

Michaelis constants 4.8mM (D-Glucose)

Inhibitors Ag<sup>+</sup>, Cu<sup>++</sup>, Pb<sup>++</sup>

Optimum pH 7.0

Optimum temperature 37 °C

pH Stability pH 3.5 - 8.5 (25°C, 16hr)

Temperature stability Below 50 °C (pH 7.5, 30min)