

## Glucose dehydrogenase(PQQ-dependent), Enzyme Activity

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Catalog	Unit
TBP0021-1KU	1000 U
TBP0021-5KU	5000 U

### Preparation and Specification

Appearance: Purple amorphous powder, lyophilized

Activity: Gradell 500U/mg-solid or more

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

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

### Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 100,000 (by gel filtration)

Michaelis constant: 4.8mM (D-Glucose)

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

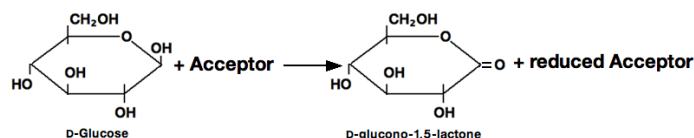
Optimum pH: 7.0

Optimum temperature: 37°C

pH Stability: pH 3.5-8.5 (25°C, 16hr)

Thermal stability: below 50°C (pH 7.5, 30min)

**D-Glucose : (pyrroloquinoline-quinone) 1-oxidoreductase (EC 1.1.99.35)**



### Applications

This enzyme is useful for enzymatic determination of D-Glucose.

For research use only