

## Glucose Dehydrogenase (NAD(P)-dependent) from Microorganism

**Product Code:** 183629

**EC no:** 1.1.1.47

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**SKU:** 183629

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

### PRODUCT DESCRIPTION

### SPECIFICATIONS:

**EC 1.1.1.47**

**Product name:**  $\beta$ -D-Glucose: NAD(P)+1-oxidoreductase

**Appearance:** White amorphous powder lyophilized

**Activity:** Grade III, 250U/mg-solid or more

**Contaminants:**

- NADH oxidase  $\leq 1.0 \times 10^{-3}\%$
- $\alpha$ -Glucosidase  $\leq 1.0 \times 10^{-3}\%$
- Glucose-6-phosphate dehydrogenase  $\leq 1.0 \times 10^{-3}\%$

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

**Molecular weight:** Approx. 101,000 (Gel filtration)

**Isoelectric point** 4.5

**Michaelis constants:** NAD<sup>+</sup> linked:  $1.38 \times 10^{-2}$  M (D-Glucose),  $3.09 \times 10^{-4}$  M (NAD<sup>+</sup>)  
NADP<sup>+</sup> linked:  $1.25 \times 10^{-2}$  M (D-Glucose),  $4.07 \times 10^{-5}$  M (NADP<sup>+</sup>)

**Inhibitors:** Ag<sup>+</sup>, Hg<sup>2+</sup>, Monoiodoacetate

**Optimum pH:** 9.0

**Optimum temperature:** 55°C

**pH Stability:** pH 6.0–7.5 (20°C, 16hr)

**Thermal stability:** 45 °C (15 min treatment with 50mM K-Phosphate buffer, pH 7.0)

**Activity:** Grade III, 250U/mg-solid or more