Glucose-6-Phosphate Dehydrogenase from Microorganism

Product Code: 183626 **EC no: 1.1.1.49**

SKU: 183626

Category: Enzymes

PRODUCT DESCRIPTION

SPECIFICATIONS:

EC 1.1.1.49

Product name: D-Glucose-6-phosphate: NADP+ 1-oxydoreductase

Appearance: white amorphous powder lyophilized

Activity: Grade III, 200 U/mg-solid or more

Contaminants:

- Creatine phosphokinase ≤ 1×10-3%
- Phosphoglucomutase $\leq 1 \times 10-3\%$
- 6-Phosphogluconate dehydrogenase $\leq 5 \times 10-3\%$
- Phosphoglucose isomerase $\leq 1 \times 10-2\%$
- Glutathione reductase $\leq 1 \times 10-3\%$
- Hexokinase $\leq 1 \times 10-2\%$, Myokinase $\leq 1 \times 10-2\%$
- NADH oxidase $\leq 1 \times 10-2\%$, NADPH oxidase $\leq 1 \times 10-2\%$

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

Molecular weight: 140,000 (Gel filtration)

Michaelis constants: NAD+ linked: 2.4x10-4M (NAD+), 4.7x10-4M (G6P)

NADP+ linked: 7.4x10-6M (NADP+), 3.2x10-4M (G6P)

Inhibitors: Metal ions, Iodoacetamimide, SDS etc.

Optimum pH: 7.8

Optimum temperature: 50 - 55°C

pH Stability: pH 5–11 (25°C, 22hr)

Thermal stability: Below 50 °C (pH 7.8, 30min)