

β-Phosphoglucomutase

ORIGIN: *Recombinant E.coli*

CAT#: PHO-70-1181

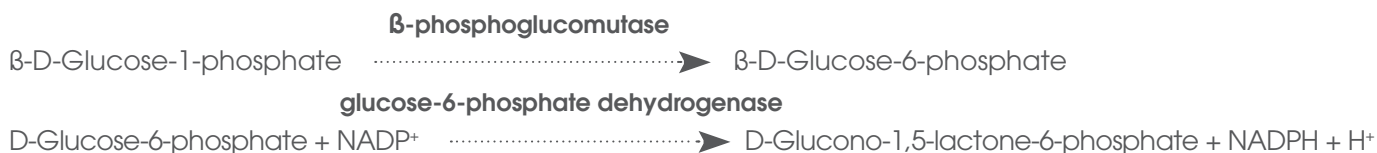
EC#: 5.4.2.6

SPECIFICATIONS

Appearance: white lyophilizate

Activity: ≥30 U/mg lyophilizate

ASSAY PRINCIPLE



The appearance of NADPH is measured spectrophotometrically at 340 nm

APPLICATION

The enzyme is useful for the determination of α-amylase and inorganic phosphate in clinical analysis.

UNIT DEFINITION

One unit (U) is defined as the amount of enzyme which converts 1 μmol of β-D-glucose-1-phosphate to β-D-glucose-6-phosphate per min at 37°C and pH 7.0 under the assay conditions.

CHARACTERISTICS

Molecular weight: ca. 34 kDa (gel filtration)

Structure: monomer of ca. 25 kDa (SDS-PAGE)

Michaelis constant: 2.3×10^{-4} M (β-D-glucose-1-phosphate)

pH Optimum: ca. 7.0

pH Stability: 5.0–9.5

Optimum temperature: 40°C

Thermal stability: below 45°C

Activators: Mg²⁺, Mn²⁺, Co²⁺, Ni²⁺

Inhibitors: Hg²⁺, Zn²⁺, Cu²⁺, Cd²⁺

β-Phosphoglucosmutase

Figure -1 pH Optimum

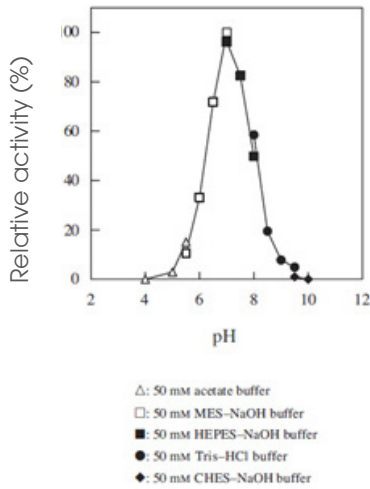


Figure -2 pH Stability

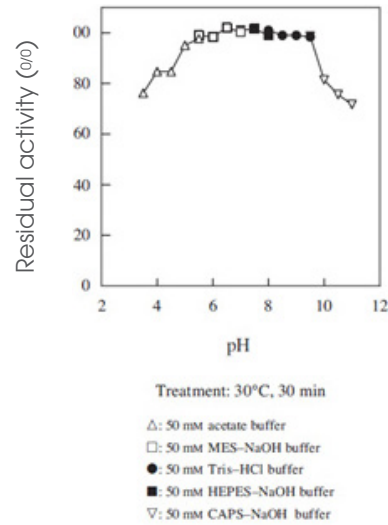


Figure -3 Optimum temperature

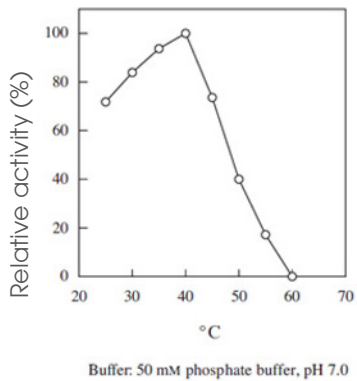
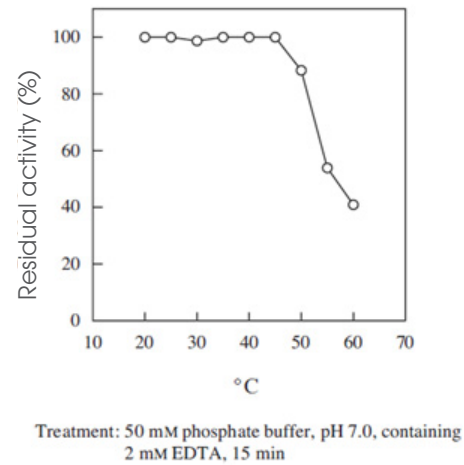


Figure -4 Thermal stability



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