PGlu M

Phosphoglucomutase

α-D-Glucose 1,6-phosphomutase (EC 5.4.2.2)

from Rabbit muscle

Reaction Equation

 α -D-Glucose 1-phosphate = α -D-Glucose 6-phosphate

Specification

Specific Activity

IU/mg protein

Specifications >20 units

Assay Procedure

I . Spectrophotometric Method

Wavelength; 340 nm, Light path length; 1 cm,

Temperature; 25℃

Pipette the following reagents into a cuvette

2.70 mL Triethanolamine-HCl buffer(0.1 mol/L, pH 7.5)

0.15 mL G-1-P (0.1 mol/L)

0.06 mL G-1, 6-DP (1 mmol/L)

0.06 mL MgCl₂ (0.1 mol/L)

0.03 mL NADP+ (50 mmol/L)

0.03 mL EDTA·3Na (50 mmol/L)

0.01 mL G6PDH (500 IU/mL)

0.02 mL PGluM (about 1 IU/mL)

I. Calculation

$$\frac{\Delta A/\min \cdot V \cdot D}{6.2 \cdot d \cdot v} = IU/mL$$

 Δ A/min = The change in absorbance at 340 nm/minute

V = Total volume of reaction mixture (3.06 mL)

D = Enzyme dilution factor

6.2 = mM extinction coefficient of NADPH

 $(L \cdot mmol^{-1} \cdot cm^{-1})$

d = Light path length (1 cm)

v = Volume of enzyme sample (0.02 mL)

Preparation and storage

Product Code: PGluM-93

Lyophilized powder (contains no ammonium sulfate)

-----below -20°C

IU per 1 mg powder is approximately 45 units.

OYC No./Package

OYC No.	Package
46550003	1,000 units
46551003	5,000 units
46550903	Bulk

(Research reagent use only, not for medical use.)

