



Certificate of Analysis

Product name: 6-PHOSPHO-D-GLUCOSE ISOMERASE (EC 5.3.1.9)

Product code: # PGI

Batch: 001.00121

Mfg Date: December 2021

Tests	Specifications	Results	Comment
Activity (U/ml)	> 2000	2348.6	Passed
Specific Activity (U/mg of proteins) ¹	> 375	557.9	Passed

Unit definition²

One Unit of 6-phospho-D-glucose isomerase is defined as the amount of enzyme required to produce one μ mole of NADPH from NADP⁺ per minute in a coupled assay with 6-phospho-D-glucose dehydrogenase at 25°C under the following assay conditions:

Tris/HCl buffer pH 7.6	88.00 mM
MgCl ₂	8.00 mM
Fructose 6-phosphate	3.15 mM
BSA	0.40 mg/ml
β -NADP ⁺	1.00 mM
Glucose 6-phosphate Dehydrogenase	8.33 U/ml

References

¹ Determined as *Ref.*: Bradford M. M., *Analytical Biochemistry*, Vol. **72**: pp. 248-254 (1976).

² Chia-Cheng Chou et al. *JBC* Vol. **275** (30): pp. 23154-2316 (2000).

Storage and use conditions

The enzyme is supplied as an ammonium sulphate suspension and should be stored at +2/+8 °C. For assay, this enzyme should be diluted in 100 mM Tris/HCl buffer pH 7.6, containing 0.4 mg/ml BSA and 8 mM MgCl₂. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: December 2024

Quality Assurance
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