



Certificate of Analysis

Product name: GLUCOSE 6-PHOSPHATE DEHYDROGENASE (EC 1.1.1.49)

Product code: # GLU6DH

Batch: 013.00122

Mfg Date: May 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1500	1858	Passed
Specific Activity (U/mg of proteins) ¹	> 75	162	Passed

Unit definition²

One Unit of Glucose 6-phosphate Dehydrogenase is defined as the amount of enzyme required to produce one μ mole of NADPH from NADP⁺ per minute at 25°C under the following assay conditions:

Imidazole buffer, pH 7.6	168.00 mM
D-Glucose 6-phosphate	5.00 mM
MgCl ₂	8.00 mM
NADP ⁺	1.05 mM

References

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

² Smith, L.D. et al., *Biochemical Journal*, Vol. **261**: pp. 973-977 (1989).

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 200 mM Imidazole buffer, pH 7.6 containing 5 mM MgSO₄ and 1 mg/ml BSA. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: May 2025

Quality Assurance
Rosaria Cassese

CPC BIOTECH S.r.l.
Sede Legale e Amministrativa/Registered and account office:
Via L. Galvani, 1
20875 Burago di Molgora (MB) – Italia
Tel. +39 039 6898029
Fax. +39 039 6899774

Partita IVA 00751490962
Codice Fiscale 03447450150
R.E.A.1074257
Registro Imprese di Monza e Brianza
Cap. Soc. € 114.000,00 i.v.
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