Certificate of Analysis

Product name: GLUCOSE 6–PHOSPHATE DEHYDROGENASE (EC 1.1.1.49)
Product code: # GLU6DH
Batch: 013.00120

Mfg Date: August 2020

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1500	**1918.2**	Passed
Specific Activity (U/mg of proteins)[1]	> 75	**121.1**	Passed

Unit definition [2]

One Unit of Glucose 6-phosphate Dehydrogenase is defined as the amount of enzyme required to produce one µmole 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**).

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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 $MgSO_4$ and 1 mg/ml BSA**. Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: August 2023

Quality Assurance
Rosaria Cassese

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