



## Certificate of Analysis

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

**Product code: # GLU6DH**

**Batch: 013.00124**

**Mfg Date:** February 2024

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1500	<b>1911</b>	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 75	<b>127</b>	Passed

### Unit definition<sup>2</sup>

One Unit of Glucose 6-phosphate Dehydrogenase is defined as the amount of enzyme required to produce one  $\mu$ mole of NADPH from NADP<sup>+</sup> 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 <sub>2</sub>	8.00 mM
NADP <sup>+</sup>	1.05 mM

### References

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

<sup>2</sup> 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 MgSO<sub>4</sub> and 1 mg/ml BSA. **Swirl to mix the enzyme suspension immediately prior to use.**

**Exp. Date:** February 2027

Quality Assurance  
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