

## **Certificate of Analysis**

**Product name: 6-PHOSPHO-D-GLUCONATE DEHYDROGENASE** (EC 1.1.1.44)

**Product code: #6PGDH** 

Batch: 022.00222

Mfg Date: February 2023

Tests	Specifications	Results	Comment
Activity (U/ml)	> 150	182	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 30	37	Passed

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

One Unit of 6-Phospho-D-Gluconate Dehydrogenase is defined as the amount of enzyme required to produce one  $\mu$ mole of NADPH from NADP+ per minute in a coupled assay with Gluconate Kinase at 25°C under the following assay conditions:

TEA / HCl buffer pH 7.6	86 mM
ATP	7.5 mM
NADP <sup>+</sup>	0.9 mM
MgCl <sub>2</sub>	8.6 mM
D-Gluconic acid	3.2 mM
Gluconate Kinase	6.0 U/ml

## References

## Storage and use conditions

The enzyme is supplied as an ammonium sulphate suspension and should be stored at  $\pm 2/\pm 8$  °C. For assay, this enzyme should be diluted in 20 mM Tris/HCl buffer, pH 7.6 containing 5 mM MgCl<sub>2</sub>. **Swirl to mix the enzyme suspension immediately prior to use.** 

Exp. Date: February 2026

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Loree Consers

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

<sup>&</sup>lt;sup>2</sup> Izu et al., FEBS Letters, vol. **394**: pp. 14-16 (**1996**).