

Certificate of Analysis

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

Product code: # 6PGDH

Batch: 022.00121

Mfg Date: May 2021

| Tests | Specifications | Results | Comment |
|---|----------------|--------------|---------|
| Activity (U/ml) | > 150 | 177.7 | Passed |
| Specific Activity (U/mg of proteins) ¹ | > 30 | 42.2 | Passed |

Unit definition²

One Unit of 6-Phospho-D-Gluconate Dehydrogenase is defined as the amount of enzyme required to produce one μ 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 ⁺ | 0.9 mM |
| MgCl ₂ | 8.6 mM |
| D-Gluconic acid | 3.2 mM |
| Gluconate Kinase | 6.0 U/ml |

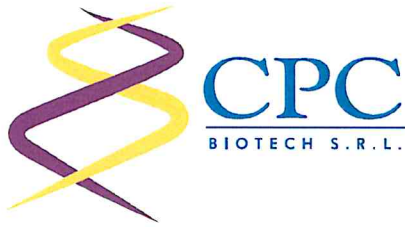
References

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

² Izu et al., *FEBS Letters*, vol. **394**: pp. 14-16 (1996).

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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 20 mM Tris/HCl buffer, pH 7.6 containing 5 mM MgCl₂. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: May 2024

Quality Assurance

Rosaria Cassese

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