



Certificate of Analysis

Product name: **GLUCONATE KINASE (EC 2.7.1.12)**

Product code: # **GNTK**

Batch: **012.00121**

Mfg Date: **January 2021**

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1500	1876.3	Passed
Specific Activity (U/mg of proteins) ¹	> 125	188	Passed

Unit definition²

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

Glycylglycine/NaOH buffer, pH 8.0	86 mM
ATP	7.5 mM
D-Gluconic acid	3.2 mM
MgCl ₂	8.6 mM
NADP ⁺	0.9 mM
6-phosphogluconate dehydrogenase	1.9 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).

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 3.2 M (NH₄)₂SO₄ and 5 mM MgSO₄. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: **January 2024**

Quality Assurance

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