



## Certificate of Analysis

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

Product code: **# GNTK**

Batch: **012.00221**

Mfg Date: **August 2021**

Tests	Specifications	Results	Comment
Activity (U/ml)	> 1500	<b>1867.4</b>	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 125	<b>189</b>	Passed

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

One Unit of Gluconate Kinase is defined as the amount of enzyme required to produce one  $\mu$ mole of NADPH from NADP<sup>+</sup> 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 <sub>2</sub>	8.6 mM
NADP <sup>+</sup>	0.9 mM
6-phosphogluconate dehydrogenase	1.9 U/ml

### References

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

<sup>2</sup> 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 (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and 5 mM MgSO<sub>4</sub>. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: **August 2024**

Quality Assurance

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