



Certificate of Analysis

Product name: HEXOKINASE (EC 2.7.1.1)

Product code: # HXKB

Batch: 021.00222

Mfg Date: July 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 2500	2832	Passed
Specific Activity (U/mg of proteins) ¹	> 400	495	Passed

Unit definition²

One Unit of Hexokinase is defined as the amount of enzyme required to convert one μ mole of D-glucose to glucose-6-phosphate per minute at 30°C under the following assay conditions:

Tris/HCl buffer, pH 7.6	50.00 mM
MgCl ₂	13.00 mM
ATP	0.60 mM
BSA	10.00 μ g/ml
D-glucose	110.00 mM
β -NADP ⁺	1.10 mM
G6P-DH	3.33 U/ml

References

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

² Bergmeyer, H.U., Grassl, M., and Walter, H.E. in *Methods of Enzymatic Analysis* (Bergmeyer, H.U. ed) 3rd ed., Volume II, pp. 222-223, Verlag Chemie, deerfield Beach, FL (**1983**).

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 100 mM Tris/HCl buffer, pH 7.6 containing 0.4 mg/ml BSA and 8 mM MgCl₂. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: July 2025

Quality Assurance

Rosaria Cassese

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