## Tribioscience

## Hexokinase, Enzyme Activity

|  | Catalog  | Unit  |                  |                                |
|--|--|---|------------------|--------------------------------|
|  | TBP0029-1KU  | 1000 U  |                  |                                |
|  | TBP0029-5KU  | 5000 U  |                  |                                |
| reparation and Specific<br>Appearance: White amorp |  |   |                  |                                |
| Activity: GradeIII 150U/n                          | ng-solid or more   |   |                  |                                |
| Contaminants: Phosphogl                            | ucose isomerase $\leq 1.0 \times 10^{-10}$ %               |   |                  |                                |
| 6-Phospho  | ogluconate dehydrogenase ≤1.0×10⁻                          | -20/0   |                  |                                |
| Glucose-6  | -phosphate dehydrogenase ≤1.0×10                           | -20/0   |                  |                                |
| Myokinase $\leq 1.0 \times 10^{-20}$ %             |  | ATP: D-Hexose 6-phosphotransferase (EC 2.7.1.1) |                  |                                |
| Glutathior   | the reductase $\leq 5.0 \times 10^{-1}$ %                  | D-Hexose+ ATP —                                 | Mg <sup>++</sup> | ──► D-Hexose-6-phosphate + ADI |
| roperties<br>Stability: Stable at -20°C :          | for at least One year                                      |   |                  |                                |
| Molecular weight: approx                           |  |   |                  |                                |
| Isoelectric point: 4.1±0.1                         |  |   |                  |                                |
| Michaelis constants: 2.3×                          | 10 <sup>-4</sup> M (D-Glucose), 7.7×10 <sup>-5</sup> M (A7 | TP)   |                  |                                |
| Inhibitors: Metal ions, p-c                        | hloromercuribenzoate, iodoacetami                          | de, SDS, etc                                    |                  |                                |
| <u>Optimum pH:</u> 8.0-9.0                         |  |   |                  |                                |
| Optimum temperature: 50                            | °C   |   |                  |                                |
| <u>pH Stability:</u> pH 4.0-9.0 (2                 | 25°C, 20hr)  |   |                  |                                |
| Thermal stability: below 4                         |  |   |                  |                                |

## **Applications**

The enzyme is useful for enzymatic determination of glucose, adenosine-5'-triphosphate (ATP) and creatine phosphokinase when coupled with glucose-6-phosphate dehydrogenase (=G-6-PDH, G6D- 311, G6D-321).

For research use only