

## Native Bacillus sp. Hexokinase

Cat. No. NATE-1157

Lot. No. (See product label)

## Introduction

**Description** Native Bacillus sp. Hexokinase for research on glucose phosphorylation and

enzymatic mechanisms. Ideal for microbiology and biochemistry studies. Creative

Enzymes provides high-purity, reliable products.

**Applications** This enzyme is useful for enzymatic determination of glucose or creatinine kinase

activity when coupled with  $glucose-6-phosphate\ dehydrogenase.$ 

**Synonyms** hexokinase (phosphorylating); ATP-dependent hexokinase; glucose ATP

phosphotransferase; hexokinase; ATP:D-hexose 6-phosphotransferase; EC 2.7.1.1

## **Product Information**

**Source** Bacillus sp.

**Appearance** White amorphous powder, lyophilized

**Form** Freeze dried powder

**EC Number** EC 2.7.1.1

**CAS No.** 9001-51-8

**Molecular Weight** 68 kDa (gel filtration)

**Activity** More than 250 U/mg solid

**Contaminants** NADH oxidase < 0.001%; ATPase < 0.002%; Myokinase < 0.002%; Creatine

phosphate < 0.002%; 6-phosphgluconate dehydrogenase < 0.002%; Glucose

dehydrogenase < 0.002%

*Isoelectric point* 5.64

**pH Stability** 7.0–8.5

**Optimum pH** 7.5–8.0

**Thermal stability** Stable at 55°C and below

**Optimum temperature** 50°C

**Michaelis Constant** Glucose  $8.2 \times 10$ -4M ATP  $8.7 \times 10$ -5M MgCl2  $1.6 \times 10$ -3M

Stabilizers ATP, albumin, KCl, NaCl

**Unit Definition** One unit is defined as the amount of enzyme which generates 1 μmole of NADPH

per minute at 37°C under the conditions specified in the assay procedure.

## Storage and Shipping Information

**Storage** Storage at -20°C in the presence of a desiccant is recommended.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1