

## Native *Flavobacterium meningosepticum* Glycerol kinase

Cat. No. NATE-1155

Lot. No. (See product label)

### Introduction

**Description** The activity of glycerol kinase is found widely in nature. In microorganisms GK makes possible the utilization of glycerol as a carbon source. In mammals the enzyme represents a juncture of sugar and fat metabolism; The enzyme is important to the clinical chemist in the determination of glycerol. GK is also useful in the assay of glyceraldehydes and dihydroxyacetone following their quantitative reduction to glycerol with sodium borohydride.

**Applications** Useful for the measurement of Triglyceride.

**Synonyms** glycerokinase; GK; ATP: glycerol-3-phosphotransferase; glycerol kinase phosphorylating; glyceric kinase; EC 2.7.1.30

### Product Information

**Source** *Flavobacterium meningosepticum*

**Appearance** White to light grayish white amorphous powder, lyophilized.

**Form** Freeze dried powder

**EC Number** EC 2.7.1.30

**Molecular Weight** 150 kDa (TSK G3000SWXL) 50 kDa (SDS-PAGE)

**Activity** More than 70 U/mg solid

**Contaminants** Hexokinase < 0.05%; Catalase < 0.1%; ATPase < 0.01%; Myokinase < 0.05%

**Isoelectric point** 4.3

**pH Stability** 5.0–11.0

**Optimum pH** 8

**Thermal stability** Stable at 60°C and below

**Optimum temperature** 80°C

**Michaelis Constant** Glycerol  $8.8 \times 10^{-5}$ M ATP  $3.0 \times 10^{-5}$ M

**Unit Definition** One unit is defined as the amount of enzyme which converts 1  $\mu$ mole of glycerol to glycerol-3-phosphate 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.