Alkaline Phosphatase

(*Escherichia coli*)

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Cat. No.	Size
E1026-01	30 units
E1026-02	150 units

Unit Definition:
One unit is the amount of enzyme required to hydrolyze 1 µmol of p-nitrophenylphosphate in 1 min at 37°C in a buffer of 1 M diethanolamine, 10 mM p-nitrophenylphosphate, 0.25 mM MgCl2 (pH 9.8).

Storage Conditions:
Store at -20°C

Bacterial phosphatase catalyzes the hydrolysis of phosphate esters, including those present in nucleic acids and nucleotides.

Description:

- More thermal stable than Calf Intestine Alkaline Phosphatase (CIAP, CIP).
- Optimal incubation temperature is approximately 60°C, however the enzyme remains active from 20°C to 80°C.
- Resistant to chemical changes and active over a broad range of buffer conditions.
- Can be used to remove 5'-phosphates from DNA or RNA prior to 5'-end labeling (1).
- Works to remove 5'-phosphates from linearized vector molecules to prevent self-ligation of the vector during cloning procedures (1).
- Ideal for diagnostic immunoassays and immunodetection of proteins and nucleic acids following blotting experiments (1).

Storage Buffer:

20 mM Tris-HCl (pH 7.0 at 22°C), 5 mM potassium phosphate, 100 mM KCl, 0.1 mM $MgCl_2$, 0.1 mM $ZnCl_2$ and stabilizers.

Quality Control:

All preparations are assayed for contaminating endonuclease and nonspecific RNase and single- and double-stranded DNase activities.

References:

1. *Sambrook, J. et al. (1989) Molecular cloning: A laboratory Manual, second edition, pp. 1.56, 5.72 Cold Spring Harbor, New York.*

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