

Native Escherichia coli Alkaline Phosphatase

Cat. No. NATE-0056

Lot. No. (See product label)

Introduction

Description	Alkaline phosphatase (ALP, ALKP, ALPase, Alk Phos) (EC 3.1.3.1) is a hydrolase enzyme responsible for
	removing phosphate groups from many types of molecules, including nucleotides, proteins, and
	alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name
	suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used
	synonymously as basic phosphatase.

- **Applications** Alkaline phosphatase is used for conjugation to antibodies and other proteins for ELISA, Western blotting, and hist ochemical detection. It may be used for protein labeling when high sensitivity is required.
- *Synonyms* Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase

Product Information

Source	Escherichia coli
Form	A suspension in 2.6M ammonium sulfate, pH 8.0.
EC Number	EC 3.1.3.1
CAS No.	9001-78-9
Activity	Type I, >30 units per mg protein; Type II, >20 units per mg protein; Type III, >10 units per mg protein.
Unit Definition	One Unit hydrolyzes 1 μ mole of p-nitrophenol phosphate per minute at 25°C, pH 8.0.

Storage and Shipping Information

Storage 2-8°C