

## 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 histochemical 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 1µmole of p-nitrophenol phosphate per minute at 25°C, pH 8.0.

### Storage and Shipping Information

**Storage** 2-8°C