

## 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