

## Native Porcine Alkaline Phosphatase

Cat. No. NATE-0059

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. Alkaline phosphatase is also used to prevent DNA self ligation and for radiolabeling.

**Synonyms** Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase

### Product Information

**Species** Porcine

**Source** Porcine kidney

**Form** Lyophilized from Tris-HCl buffer, with magnesium chloride and zinc chloride, pH 8.0

**EC Number** EC 3.1.3.1

**CAS No.** 9001-78-9

**Activity** 100-300 DEA units/mg protein

**Unit Definition** One unit will hydrolyze 1.0  $\mu$ mole of p-nitrophenyl phosphate per min at pH 9.8 at 37°C.

### Usage and Packaging

**Package** Package size based on DEA units

### Storage and Shipping Information

**Storage** -20°C