

## Native Calf Alkaline Phosphatase

Cat. No. NATE-0054

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.

#### Synonyms

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

### Product Information

#### Species

Calf

#### Source

Calf intestine

#### Form

A solution in 50% glycerol containing 5mM Tris, 5mM MgCl<sub>2</sub> and 0.1mM ZnCl<sub>2</sub>.

#### EC Number

EC 3.1.3.1

#### CAS No.

9001-78-9

#### Purity

Chromatographically purified, EIA grade.

#### Activity

> 3,000 units per mg protein (37°C, pH9.8, DEA)

#### Concentration

20mg/ml

#### Unit Definition

One Unit hydrolyzes 1μmole of p-nitrophenol phosphate per minute at 37°C, pH 9.8.

### Storage and Shipping Information

#### Storage

2-8°C