

Native Bovine Alkaline Phosphatase

Cat. No. NATE-0946

Lot. No. (See product label)

Introduction

Description

Alkaline Phosphatase is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3- positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta. The optimal pH for the enzyme activity is 10.0 in standard conditions.

Synonyms

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

Product Information

Species

Bovine

Source

Bovine Kidney

Form

Lyophilized

EC Number

EC 3.1.3.1

CAS No.

9001-78-9

Purity

Purified

Activity

40 U/mg solid 750 U/mg solid

Contaminants

Glutamate oxaloacetate transaminase <0.02%; gamma-glutamyl transferase <0.005%

Optimum pH

10

Unit Definition

The amount of enzyme which liberates one micromole of p-nitrophenol from p-nitrophenyl-phosphate per minute at 37°C, pH 9.8 in diethanolamine buffer.

Storage and Shipping Information

Storage

Store at -20°C

Stability

2 years