

## Native Bovine Acid Phosphatase, Prostatic

Cat. No. NATE-0081

Lot. No. (See product label)

### Introduction

**Description** Acid phosphatases (APase) are a family of enzymes that non-specifically catalyze the hydrolysis of monoesters and anhydrides of phosphoric acid to produce inorganic phosphate at an optimum pH of 4 to 7. Acid phosphatase from potatoes is a 111 kDa dimer consisting of two subunits at 41 and 35 kDa. This phosphatase has also been shown to cleave DNA.

**Synonyms** acid phosphatase; 9001-77-8; acid phosphomonoesterase; phosphomonoesterase; glycerophosphatase; acid monophosphatase; acid phosphohydrolase; acid phosphomonoester hydrolase; uteroferrin; acid nucleoside diphosphate phosphatase; orthophosphoric-monoester phosphohydrolase (acid optimum); EC 3.1.3.2; APase

### Product Information

**Species** Bovine

**Source** Bovine prostate

**Form** Partially purified, lyophilized powder

**EC Number** EC 3.1.3.2

**CAS No.** 9001-77-8

**Activity** ~10 units/g solid

**Unit Definition** One unit will hydrolyze 1.0  $\mu$ mole of p-nitrophenyl phosphate per min at pH 4.8 at 37°C. Prostatic acid phosphatase activity is the difference between the total acid phosphatase activity and the acid phosphatase activity in the presence of 20 mM tartrate.

### Storage and Shipping Information

**Storage** -20°C