

## Native Bacillus stearothermophilus Inorganic Pyrophosphatase

Cat. No. NATE-0353

Lot. No. (See product label)

## Introduction

**Description** Pyrophosphatase (or inorganic pyrophosphatase) is an enzyme (EC 3.6.1.1) that catalyzes the conversion

of one molecule of pyrophosphate to two phosphate ions. This is a highly exergonic reaction, and therefore can be coupled to unfavorable biochemical transformations in order to drive these transformations to completion. The functionality of this enzyme plays a critical role in lipid metabolism (including lipid synthesis and degradation), calcium absorption and bone formation, and DNA

synthesis, as well as other biochemical transformations.

**Applications** Inorganic pyrophosphatase (PPase) is a ubiquitous enzyme catalyzing the reaction PPi + H2O → 2Pi. It

plays an important role in protein, RNA, and DNA synthesis.

**Synonyms** Pyrophosphate phosphohydrolase; inorganic pyrophosphatase; EC 3.6.1.1; 9024-82-2; iphosphate

phosphohydrolase

## **Product Information**

**Source** Bacillus stearothermophilus

**Form** lyophilized powder

**EC Number** EC 3.6.1.1

**CAS No.** 9024-82-2

**Activity** 15-25 units/mg protein (biuret)

**Unit** One unit will liberate 1.0 μmole of inorganic orthophosphate per min at pH 9.0 at 50°C.

**Definition** 

## Storage and Shipping Information

**Storage** 2-8°C

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