

## Polynucleotide Phosphorylase from Escherichia coli, Recombinant

Cat. No. NATE-0608

Lot. No. (See product label)

## Introduction

**Description** Polynucleotide phosphorylase (PNPase) is a bifunctional enzyme with a

phosphorolytic 3' to 5' exoribonuclease activity and a 3'-terminal oligonucleotide polymerase activity. It is also involved in mRNA processing and degradation in

bacteria, plants, and humans.

**Applications** Polynucleotide phosphorylase (PNP) has been used in a study to show that

spontaneous mutations resulting from replication errors are reduced in a PNP-deficient strain. It has also been used in a study to show that the absence of PNPase makes E. coli cells sensitive to UV, which suggests PNP has a role in

survival of UV damage.

**Synonyms** PNPase; nucleoside diphosphate:polynucleotidyl transferase; polyribonucleotide

nucleotidyltransferase; polynucleotide phosphorylase; polyribonucleotide

phosphorylase; EC 2.7.7.8; 9014-12-4

## **Product Information**

**Species** Escherichia coli

**Source** E. coli

**Form** Supplied as a solution in 20 mM Hepes buffer pH 7.9, 0.1 mM EDTA, 2 mM DTT,

12.5 mM MgCl2, 200 mM KCl, 21.4% (w/v) Glycerol

**EC Number** EC 2.7.7.8

**CAS No.** 9014-12-4

Unit DefinitionOne unit will polymerize 1.0 μmole of ADP releasing 1.0 μmole of inorganic

phosphate in 15 minutes, at pH 9.1 at 37°C.

## Storage and Shipping Information

*Storage* -70°C

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