

## *Manual*

# Yeast pyrophosphatase

Enzyme catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate and increase the yield of polymerization reactions of DNA and RNA. Concentration 0.1 U/ $\mu$ l.

catalog #	size
1011-10	10 U

For research use only.

### **Guarantee**

A&A Biotechnology provides guarantee on this product.

The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components



# Description

**Yeast pyrophosphatase** is a recombinant enzyme produced by *E.coli* strain carrying a plasmid with a cloned gene of inorganic pyrophosphatase *S.cerevisiae*.

The enzyme catalyzes the synthesis of inorganic pyrophosphate into two orthophosphate groups. For activity it requires the presence of divalent metal ions - preferably  $Mg^{2+}$ .

# Contents

	1011-10	storage
Yeast pyrophosphatase	10 U	-20 °C
Pyrophosphatase buffer	1 x 1 ml	-20 °C
Storage and dilution buffer: 20 mM Tris-HCl, pH 8,0, 50 mM NaCl, 0,1 mM EDTA, 50% glycerol (v/v)		

# Notes

Before using, thoroughly thaw and gently mix by inverting the tubes.

## Application

- important role in protein, RNA and DNA synthesis
- prevents accumulation of pyrophosphate in reaction of DNA polymerization
- as a component of reaction buffer used in aminoacylation assay to quantify incorporation of [3H]L-methionine into tRNA



**A&A BIOTECHNOLOGY**  
innovating life science

A&A Biotechnology, ul. Strzelca 40, 80-299 Gdańsk, Poland  
phone: +48 883 323 761,+48 600 776 268  
info@aabiotech.com, www.aabiotech.com

version 2023-2

