

# Non-radioactive phosphorylation with T4 PNK

## **New England Biolabs**

### **Abstract**

Protocol for non-radioactive phosphorylation with T4 PNK.

Citation: New England Biolabs Non-radioactive phosphorylation with T4 PNK. protocols.io

dx.doi.org/10.17504/protocols.io.cpdvi5

Published: 25 Jan 2015

#### **Materials**

T4 Polynucleotide Kinase - 500 units M0201S by New England Biolabs

#### **Protocol**

#### Step 1.

Set up the following reaction.



### . T4 PNK Reaction

**CONTACT: New England Biolabs** 

#### **ANNOTATIONS**

#### New England Biolabs 26 Jan 2015

1X T4 DNA Ligase Buffer contains 1 mM ATP and can be substituted in non-radioactive phosphorylations (T4 Polynucleotide Kinase exhibits 100% activity in this buffer).

### New England Biolabs 26 Jan 2015

ATP is not supplied

#### Step 1.1.

DNA, up to 300 pmol of 5' termini

#### Step 1.2.

10X T4PNK Reaction Buffer, 5ul



5 μl Additional info:

#### Step 1.3.

10mM ATP, 5ul



5 μl Additional info:

#### Step 1.4.

T4 PNK, 1 μl (10 units)

## **■** AMOUNT

1 μl Additional info:

## Step 1.5.

Water, up to 50 µl

# Step 2.

Incubate at 37°C for 30 minutes.

**O DURATION** 

00:30:00

## Step 3.

Heat inactivate by incubating at 65°C for 20 minutes.

© DURATION

00:20:00