

# Dephosphorylation of 5'-ends of DNA using rSAP (M0371)

New England Biolabs

## Abstract

Protocol for Dephosphorylation of 5'-ends of DNA using rSAP (M0371)

**Citation:** New England Biolabs Dephosphorylation of 5'-ends of DNA using rSAP (M0371). **protocols.io**  
dx.doi.org/10.17504/protocols.io.crkv4v

**Published:** 03 Feb 2015

## Materials

🦐 Shrimp Alkaline Phosphatase (rSAP) - 500 units [M0371S](#) by [New England Biolabs](#)

## Protocol

### Step 1.

Prepare a 20 µl reaction as follows:

#### ✓ PROTOCOL

#### . [M0371 no RE mixture](#)

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#### ⊕ NOTES

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1 pmol of DNA ends is about 1 µg of a 3 kb plasmid

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Scale larger reaction volumes proportionally

#### Step 1.1.

DNA - **1 pmol** of DNA ends

#### Step 1.2.

CutSmart Buffer (10X), **2 µl**

#### 📄 AMOUNT

2 µl Additional info:

#### Step 1.3.

rSAP, **1 unit**

#### Step 1.4.

purified H<sub>2</sub>O **to 20 µl**

### Step 2.

Incubate at 37°C for 30 minutes

#### 🕒 DURATION

00:30:00

**Step 3.**

Stop reaction by heat-inactivation at 65°C for 5 minutes

🕒 **DURATION**

00:05:00