

## EnzSAP2™ PCR Clean-up Reagent Kit

PRODUCT	CATALOG #	REACTIONS
EnzSAP2 Reagent Kit	EnzSAP2-500	500
EnzSAP2 Reagent Kit	EnzSAP2-2000	2000

### Description

The EnzSAP2 PCR Clean-up Reagent Kit is designed to enzymatically inactivate unincorporated reactants in PCR reactions. The kit contains two hydrolytic enzymes: Exonuclease I (Exo I) degrades residual single-stranded primers and recombinant Shrimp Alkaline Phosphatase (rSAP) dephosphorylates unincorporated dNTPs, enabling Sanger sequencing and other downstream enzymatic reactions or applications. These enzymes are active in commonly used PCR buffers, which eliminates the need for buffer exchange.

COMPONENT	EnzSAP2-500	EnzSAP2-2000
Exo I	1 tube (500 µL)	1 tube (2,000 µL)
rSAP	1 tube (500 µL)	1 tube (2,000 µL)

### Equipment and Materials Required

1. Microcentrifuge tubes
2. Incubator
3. Water bath

### Storage Condition

Store at –15 to –30 °C. See product label for expiration date.

### Recommended Protocol

1. Transfer 5 µL of a completed PCR reaction to a new microcentrifuge tube
2. Add 1.0 µL of Exo I and 1.0 µL of rSAP
3. Incubate at 37 °C for 5 minutes
4. Heat inactivate at 80 °C for 10 minutes
5. Proceed directly with subsequent reaction
  - EnzSAP can be added directly into the PCR product, followed by 5 minute incubation at 37 °C. Inactivation of both enzymes is achieved in 10 minutes at 80 °C. PCR products are immediately ready for downstream applications without any need for further processing
  - Steps 3 and 4 of the protocol may be performed in a suitably programmed thermal cyclers
  - Reaction volumes can be scaled proportionally