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Version 1

## Protocol for Exo-CIP™ Rapid PCR Cleanup (#E1050) V.1

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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

### Exo-CIP™ Rapid PCR Cleanup Kit

- Rapidly degrade residual PCR primers and dephosphorylate excess dNTPs after amplification
- Reaction complete in 4 minutes
- Thermolabile formulation can be heat inactivated in 1 minute at 80°C
- PCR product can be used directly in downstream applications
- Compatible with commonly-used reaction buffers

## Materials


### MATERIALS

 Exo-CIP Rapid PCR Cleanup Kit - 100 rxns **New England Biolabs Catalog #E1050S**

### STEP MATERIALS

 BigDye™ Terminator v3.1 Cycle Sequencing Kit **Thermo Fisher Scientific Catalog #4337455**

## Protocol materials

 Exo-CIP Rapid PCR Cleanup Kit - 100 rxns **New England Biolabs Catalog #E1050S**

 BigDye™ Terminator v3.1 Cycle Sequencing Kit **Thermo Fisher Scientific Catalog #4337455**

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## Troubleshooting



## Safety warnings

⚠ Please see SDS (Safety Data Sheet) for hazards and safety warnings.




- 1 Transfer  5  $\mu\text{L}$  of PCR product to a new PCR tube and add  1  $\mu\text{L}$  of Exo-CIP A and Exo-CIP B respectively. The final volume is  7  $\mu\text{L}$  . 
- 2 Mix thoroughly and briefly centrifuge at  1000 x g . 
- 3 Incubate the reaction tube for  00:04:00 at  37 °C followed by  00:01:00 at  80 °C . 
- 4 Submit  3  $\mu\text{L}$  or less (in a range of 15-200 fmol)\* of treated PCR product for sequencing using BigDye™ Terminator v3.1 Cycle Sequencing Kit or store the treated samples at  -20 °C for longer term storage.



BigDye™ Terminator v3.1 Cycle Sequencing Kit **Thermo Fisher**  
Scientific Catalog #4337455

**Note**

\* A simple way to determine the amount of your amplicon is to load  3  $\mu$ L on an agarose gel along with a known amount of a control DNA for comparison. Alternatively, direct measurement using fluorescent dye based kit (e.g., Qubit™) will ensure the proper amount of DNA is submitted.

	<b>Size of PCR amplicon</b>	<b>ng of DNA (in 3 <math>\mu</math>l sample)</b>
	100 bp	1 - 12
	500 bp	5 - 60
	1000 bp	10 - 120
	3000 bp	30 - 360
	5000 bp	50 - 600