Enzymatic PCR Cleanup Protocol (NEB #M0525)

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1 Works for me dx.doi.org/10.17504/protocols.io.7r4hm8w

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ABSTRACT

Enzymatic PCR Cleanup Protocol (NEB #M0525) uses Quick CIP; Quick CIP is a heat-labile version of calf intestinal alkaline phosphatase (CIP) purified from a recombinant source.

Features

- Rapid and irreversible heat inactivation eliminates unwanted activity
- Improved storage stability versus native enzyme
- Faster reaction setup (no supplemental additives like zinc required) and shorter incubation time
- Flexible reaction conditions (active in any restriction enzyme buffer, no clean-up required)
- Less enzyme required (high specific activity), resulting in a lower cost per reaction
- No need for multiple phosphatases (Quick CIP removes 5'- and 3'- phosphates from DNA, RNA and dNTPs)
- Active on unincorporated dNTPs in PCR products - improves DNA sequencing and SNP analysis
- Recombinant for purity, consistency and value

EXTERNAL LINK

https://neb.com/protocols/2019/06/04/enzymatic-pcr-cleanup-protocol-neb-m0525

MATERIALS

NAME	CATALOG #	VENDOR
Quick CIP	M0525	New England Biolabs
Exonuclease I (E. coli)	M0293	New England Biolabs
Shrimp Alkaline Phosphatase (rSAP)	M0371	New England Biolabs

SAFETY WARNINGS

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

1 Add **1 µl** of Quick CIP (NEB #M0525) to **5 µl** of PCR product.

Note that 0.5 µl of Exo I (NEB #M0293) and 1 µl of rSAP (NEB #M0371) can be used in the same volume.

2 Incubate the mix at the **37 °C** for **00:15:00** .

3 Inactivate both enzymes at **80 °C** for **00:15:00** .

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4 PCR products are ready for downstream application.

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