PRODUCT INFORMATION

EZ-10 SPIN COLUMN DNA CLEANUP MINIPREPS KIT

Kit Contents

Components	BS367 50 Preps	BS368 100 Preps	BS668 250 Preps
Cleanup Solution	20 ml	40 ml	4x25 ml
Wash Solution[(a)]	20 ml	2x20 ml	2x40 ml
Elution Buffer[(b)]	5 ml	10 ml	25ml
EZ-10 Spin Column	50	100	250
2.0 ml Collection Tube	50	100	250
Protocol	1	1	1

a) Before use, add 80 ml of 100% of ethanol to 20 ml Wash Solution for BS367 and BS368, or 160 ml of 100% ethanol to 40 ml Wash Solution for BS 668. For other volumes of wash solution, simply add enough ethanol to make a 4:1 ratio (volume of added ethanol: volume of Wash Solution = 4:1).
b) Elution Buffer is 2.0 mM Tris-HCl pH 8.0~8.5. Although TE buffer pH 8.0 or water can be used, yield is generally lower.

Introduction

This DNA Cleanup kit provides a simple, efficient method for purification of DNA fragments from variable enzymatic reactions such as cDNA synthesis, ligation, restriction enzyme digestions, tailing, PCR*, alkaline phosphatase, nick translation, due terminators products from PCR** reaction mixture. It is also an ideal tool to desalt solution of DNA as well as to remove residual organic solvents or unincorporated nucleotides or primers (<40-mer) from reaction mixtures. The kit utilizes a technology which adsorbs selectively up to 10ug DNA fragments in the column in the

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presence of specialized binding buffers. DNA fragments can be eluted readily with elution buffer, while nucleotides, enzymes, mineral oil and other impurities can not bind to the columns in the plate will be washed away by Wash Solution.

Application

- DNA Cleanup from the enzymatic reactions
- Removal of nucleotides and primers (<40-mer)

Feature

√ Rapid and economical. Entire procedure takes 40 minutes.
√ High yields (60-80%). It is suitable to recover 100 bp-40 kb DNA fragments.
√ Efficient removal of contaminants. Purified DNA can be used in any downstream applications such as sequencing, labeling, restriction enzymatic digestions, ligations or transformations.
√ Convenience and environment friendly. No phenol / chloroform extraction or ethanol precipitation.

Procedures

1. Transfer DNA mixture to a 1.5 ml Eppendorf tube and add 3 volumes of Cleanup Solution.
2. Apply above mixture solution to an EZ-10 spin column, and let the column stand at room temperature for 2 minutes. Spin at 8,000 x g (10,000 rpm) for 1 minute.
3. Discard flow-through. Add 750 µl of Wash Solution to the column and spin at 8,000 x g (10,000 rpm) for 1 minute. Discard flow-through and place column back to the same collection tube.
4. Add 750 µl of Wash Solution to the column, spin at 8,000 x g (10,000 rpm) for 1 minute. Discard flow-through and spin for an

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additional minute to remove residual amount of Wash Solution.

5. Transfer column to a clean 1.5 ml Eppendorf tube. Add 30-50 µl of Elution Buffer or water onto the center part of the column; Incubate at 50 °C for 2 minutes.
6. Spin at 8,000 x g (10,000 rpm) for 1 minute. Purified DNA including PCR* product is ready to use or can be stored at - 20 °C.

Note:

– Incubation at 37-50 °C can improve recovery yield.
– If PCR* reaction mixture contain mixtures or non-specific amplified DNA fragments, use of DNA Gel Extraction Kit is recommended.
– This kit can not remove template and primers with chain length longer than 50-mer.

Storage

The kit is stable for 24 months at room temperature. For long term storage, keep all contents of the kit in cold place.

* The Polymerase Chain Reaction (PCR) is covered by patents owned by Hoffman-La Roche Inc.

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