EasyPrep PCR Clean up Kit

For purification of DNA from PCR reactions

Contents

Introduction

TOOLS EasyPrep PCR Clean up Kit enables rapid, simple, and highly effective DNA purification from PCR reactions. The unique spin column is able to retrieve DNA fragments of interest from TAE or TBE buffers. It is tailored for PCR clean-up and the recovery efficiency is more than 80%. The DNA purified by this kit is high-quality and serves as an excellent template for restriction enzyme digestion, PCR analysis, sequencing, the genomic DNA library, DNA ligation, and transformation procedures.

Important Notes

1. For first-time usage, be sure to add 200 mL ethanol (96%–100%) to the PW Buffer per the instructions
2. Sample: up to 300 mg of agarose gel and up to 100 µL of the reaction solution
3. Recovery: 90%–95% for PCR clean-up
4. DNA Binding capacity of spin column: 20 µg
5. DNA size: 65 bp to 10 kb

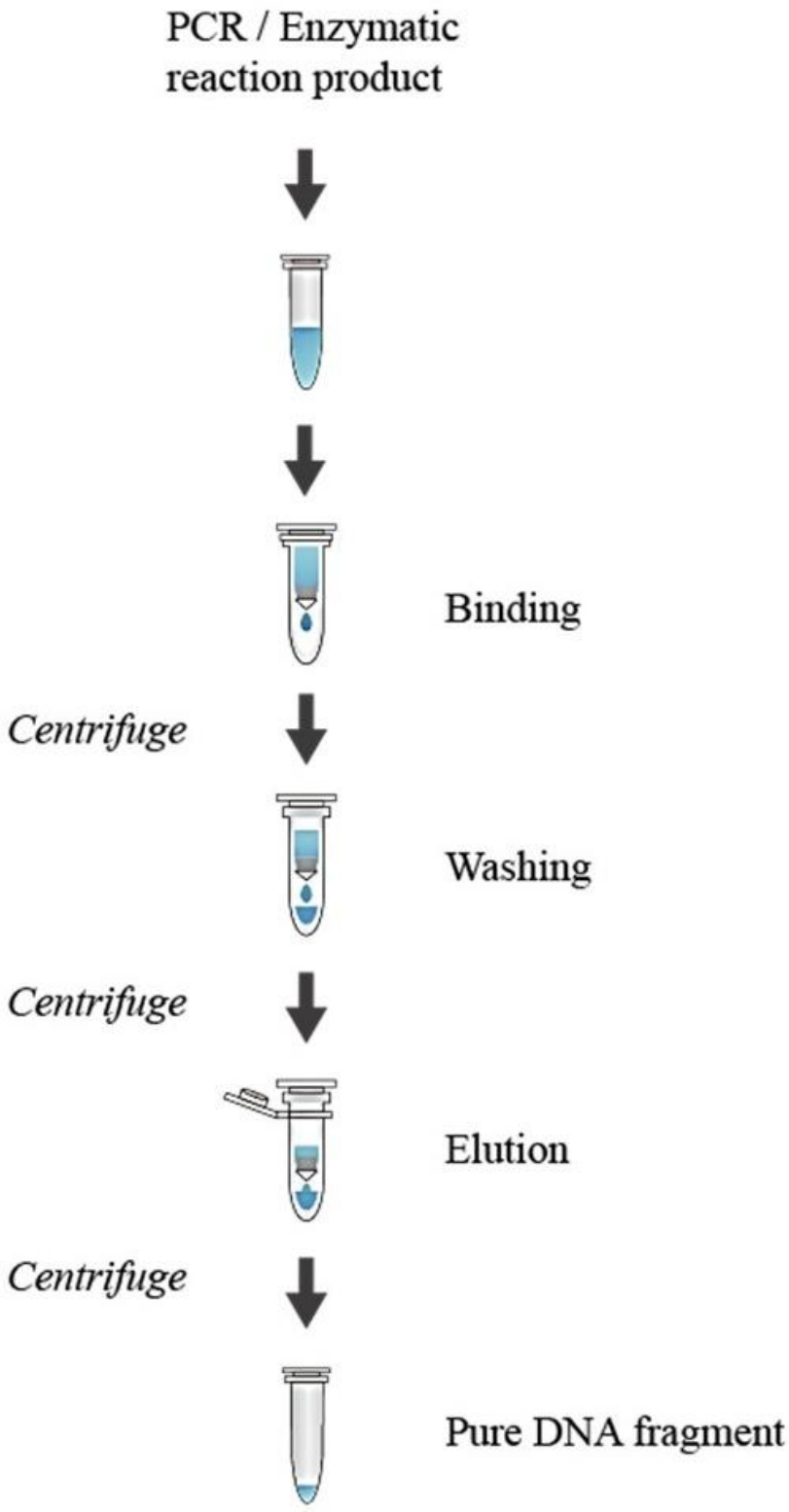
Kit Contents

Contents	TTJ-P300 (300 preps)
PE Buffer	240 mL
PW Buffer	50 mL
EB Buffer	30 mL
DE Column	300 tubes
Collection Tube (2 mL)	300 tubes

Storage

At RT for 1 year.

Workflow


PCR / Enzymatic reaction product
Binding
Centrifuge
Washing
Centrifuge
Elution
Centrifuge
Pure DNA fragment

Protocol

For purifying the double-stranded DNA fragments from solution (PCR reactions and enzymatic reactions).

1. Add five times the volume of the PE buffer into the PCR reaction solution and mix the sample. The maximum volume of the PCR product is 100 µL (excluding oil). Do not exceed this limit. If the PCR product is more than 100 µL, separate it into multiple tubes.
2. Transfer the whole solution to a DE column. Centrifuge for 30 s at 11,000×*g* and discard the flow-through completely. Finally, place the DE column into a collection tube.
3. Add 750 µL of PW buffer (ethanol added) to the DE column. Centrifuge at 11,000×*g* for 30 s and discard the flow-through.

Note: Make sure that ethanol (96%–100 %) was added into the PW Buffer upon opening.

4. Centrifuge again at full speed (approximately 18,000×*g*) for an additional 3 min to dry the column matrix.

Note: Important step: The residual liquid should be completely removed at this stage.

5. Place the DE column into a new 1.5-mL tube. To elute DNA, add 40 µL EB buffer on the center of the DE column. Let the DE column stand for 1 min, and then centrifuge at full speed (approximately 18,000×*g*) for 1 min to collect the DNA solution.

Note: To increase the resultant quantity, return the centrifuged DNA solution to the DE column and centrifuge again. For a more effective elution, make sure that the elution solution is dispensed onto the membrane center and is absorbed completely. The volume of EB buffer should be more than 40 µL, otherwise it may affect purifying efficiency. The recovery efficiency will also decrease if the pH is not 7.0–8.5. The eluted DNA solution should be stored at –20°C to avoid degradation.