

PCR Clean-Up Kit

Description

The PCR Clean-Up Kit is designed for cleanup DNA fragments from PCR and other enzymatic products. The size range for effective fortification is 100bp ~10kb, thus common 20 ~40 mer oligonucleotides are removed. The recovery yield exceeds 80%. Elution volume can be as little as 30µL when concentrated product is needed. The purified DNA can be used directly for any downstream application.

Features

- Quick and easy to use, just three simple steps.
- Complete removal of primers and primer dimers.
- PCR product is eluted into sterile water or elution buffer (supplied).
- No phenol/chloroform extraction and ethanol precipitation required.

Applications

Purified DNA is ready for downstream application such as sequencing, ligation, labeling, amplification and enzymatic digestion.

Sample Source

PCR products, labeled, modified or digested DNA (Ex. Restriction digests, alkaline phosphatase fragments, kinase reaction, enzymatic labeling reactions)

DNA Size Range

100bp ~10kb

Binding Capacity of Spin Filter

10 ~100 µl of PCR product

Recovery Rate

80 ~95%

Handling Time

About 20 minutes



The Quality of DNA after Purification

Purification of DNA fragments from PCR product by the PCR Clean-Up Kit. Recovery is about 85%.

M: 1Kb DNA Ladder (100bo-12,000bp)

1: 325bp PCR product before purified

2: 325bp PCR product after purified

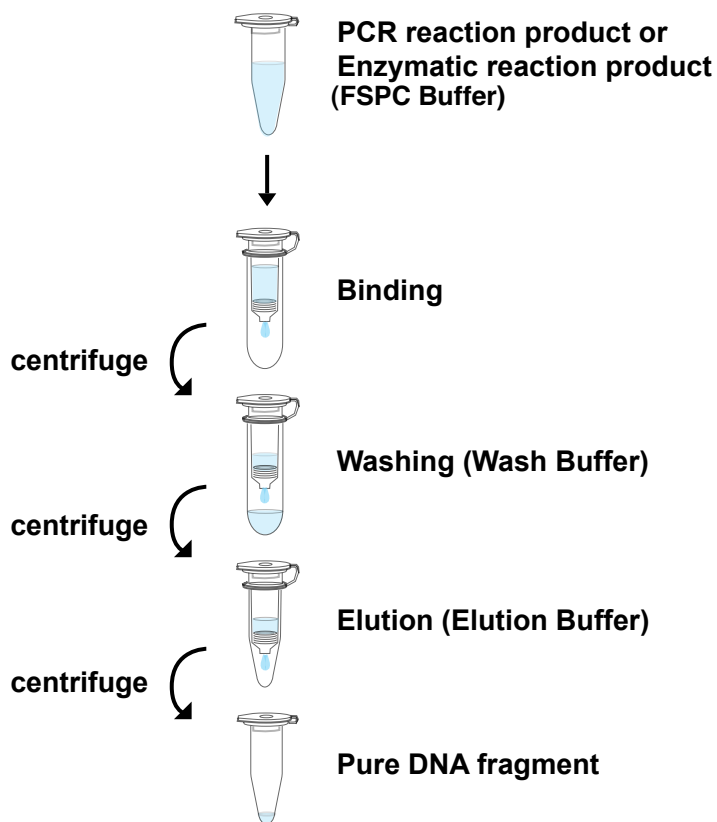
3: 666bp PCR product before purified

4: 666bp PCR product after purified

For Research Use Only

Storage Conditions

Stable for 1 year at room temperature.
The kit is shipped at ambient temperature.



Ordering Information

Cat. No.	Product Name	Size	Kit Components	Store at
DE-017	PCR Clean-UP Kit	50 preps.	FSPC Buffer Wash Buffer (conc.) Elution Buffer FSPC Columns 2 ml Collection tubes 1.5 m Elution tubes	Storee at room temperature for 1 year.
DE-018	PCR Clean-UP Kit	200 preps.	FSPC Buffer Wash Buffer (conc.) Elution Buffer FSPC Columns 2 ml Collection tubes 1.5 m Elution tubes	Storee at room temperature for 1 year.

Distributed by:



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Kit Contents:	DE-017	DE-018
FSPC Buffer	30 ml	125 ml
Wash Buffer* (concentrated)	12.5 ml	45 ml
Elution Buffer	5 ml	20 ml
FSPC Column	50 pcs	200 pcs
Collection Tube	50 pcs	200 pcs
Elution Tube	50 pcs	200 pcs

* For DE-017, add 50 ml ethanol (96-100%) to Wash Buffer when first open. For DE-018, add 180 ml ethanol (96-100%) to Wash Buffer when first open.

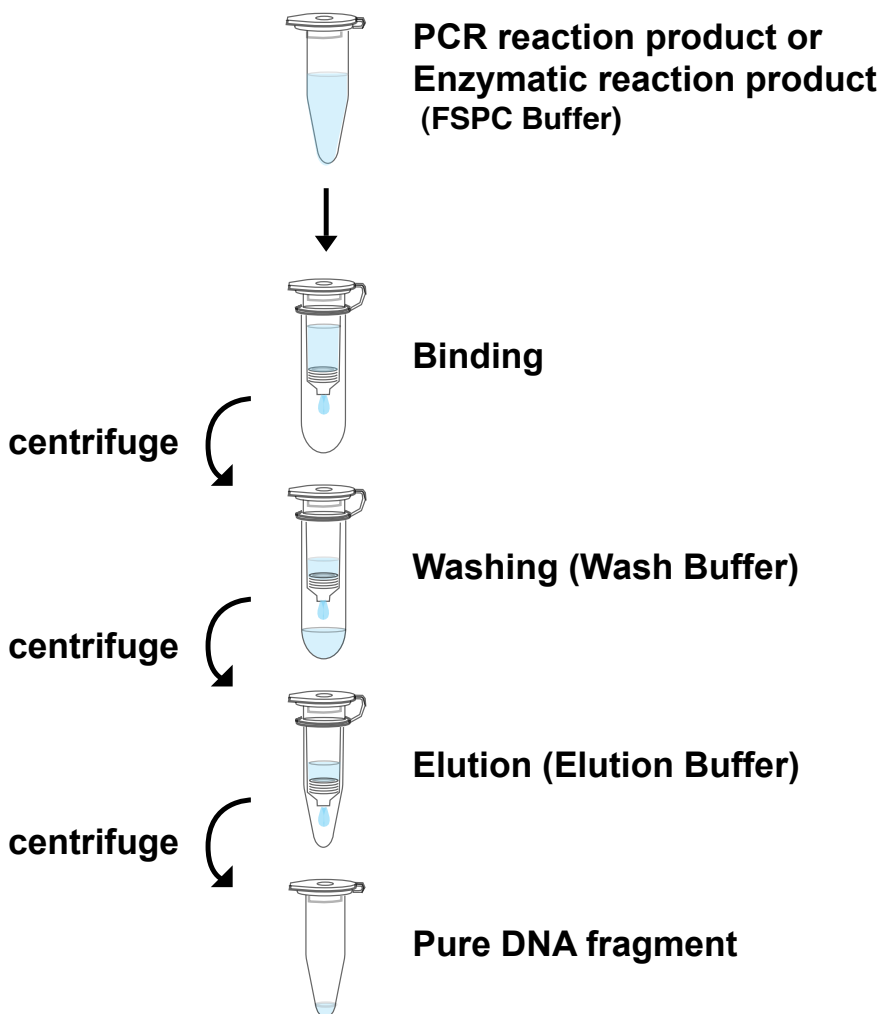
Specification

Sampling: up to 100 µl PCR product or enzymatic reaction product

Recovery : 80-95%.

Volume of eluate : 40 µl

Handling Time: Within 15 min



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Important Notes

1. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffer.
2. Add ethanol (96~100%) to Wash Buffer when first open.
3. All centrifuge steps are done at full speed (14,000 rpm or 10,000 x g) in a microcentrifuge.

• General Protocol (for Blood DNA Extraction):

1. Transfer 10~100µl of PCR product (excluding oil) and add 5 volumes of FSPC Buffer to a 1.5 ml microcentrifuge tube (not provided) then mix well by vortexing.
 - **The maximum volume of PCR product is 100ul (excluding oil).**
2. Place a FSPC Column into a Collection Tube and transfer the sample mixture to FSPC Column.
3. Centrifuge for 1 min then discard the flow-through.
4. Add 750 µl of Wash Buffer (ethanol added) to FSPC Column.
Centrifuge for 1 min then discard the flow-through.
 - **Make sure that ethanol (96~100%) has been added into Wash Buffer when first open.**
5. Centrifuge for an additional 3 min to dry the column.
 - **Important step! This step will avoid the residual liquid to inhibit subsequent enzymatic reactions.**
6. Place FSPC Column into a Elution Tube (provided).
7. Add 40 µl of Elution Buffer or ddH₂O (pH 7.0~8.5) to the membrane center of FSPC Column.
Stand FSPC Column for 2 minutes.
 - **Important step! For effective elution, make sure that the elution solution is dispensed onto the membrane center and is absorbed completely.**
8. Centrifuge for 1 min to elute the DNA.

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Troubleshooting

Problems	Possible reasons	Solutions
Low or none recovery of DNA fragment	Apply more than 100 µl of PCR product	If PCR product is more than 100 µl, separate it into multiple tubes.
	Elution of DNA fragment is not efficient	Make sure the pH of Elution Buffer or ddH ₂ O is between 7.0- 8.5.
	The size of DNA fragment is larger than 5 Kb	Preheat the elution solution to 60 °C before use.
Poor performance in the downstream applications	Salt residue remains in eluted DNA	Wash the column twice with Wash Buffer.
	Ethanol residue remains in eluted DNA	Do discard the flow-through after washing with Wash Buffer and centrifuge for an additional 3 min.

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